



SYSTEM CATALOGUE



From specialists for specialists.

The SIHGA® system catalogue

Personal catalogue copy for:

Pioneer of fastening technologies

AUSSERGEWÖHNLICHES

S SICHERHEIT SECURITY

I IM IN

H HOLZBAU WOOD CONSTRUCTION

G GARANTIERT GUARANTEES

EXTRAORDINARY RESULTS

You need to let go to hold firm.

In our hectic day and age, we find inspiration in our collaboration with the SIHGA family to reflect on conventional methods – even if these have been proven for centuries. An important step towards the era of pioneering innovations.

It is precisely this positive energy that our Austrian engineers at SIHGA draw on.

While striving for perfection – though with our feet firmly on the ground – we take professional pride in developing reliable and innovative fastening solutions that make timber construction affordable.

These guarantee our customers maximum satisfaction, save time and allow totally new structures.

SIHGA® - Security in Wood Construction Guarantees Extraordinary Results.



Jane-Beryl Simmer, MBA Owner, General Management

fine .



In order to optimally protect the environment and the health of our employees, when producing our packaging and all printed materials we are careful to use environmentally friendly and recyclable materials, and ensure environmentally friendly production.





SSSS - SIHGA® SYSTEM SAFETY STANDARD

SIHGA® Feature

YOUR Benefit

exclusively for all SIHGA® products	security for YOUR future		
this means	SIHGA® SYSTEM SAFETY STANDARD		
and stands for	tested, regularly externally monitored, certified, guaranteed, long-lasting		



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The heart of our passion...



www.sihga.com

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THE **NEW STRONG WEBSITE**

For partners and construction clients

Welcome to the world of SIHGA® fastening technology! On our website you will find all the information you need, as well as convenient inquiry and order options and numerous downloads.

SIHGA® online-Shop **Product and installation videos**

SIHGA Jointplan® **Anchor dimensioning software**

SIHGA Terrassenplaner® **Terrace planning software**

Online calculation **Recommendations**

Product information Technical details

Approvals Design recommendations

Installation instructions News

Tender texts SIHGA® reference projects



#WEBSITE #SIHGA.COM

SIHGA® PROVIDES INNOVATIVE CONSTRUCTION TECHNOLOGY AND SUPPORT FOR THE FUTURE.

Strong products - made in Austria

SIHGA® is a family company based in Gmunden, Upper Austria. Fastenings from SIHGA® are the preferred choice today of many commercial and increasingly also private users in the German-speaking world.

Strong for our customers

SIHGA® sees every customer as a partner. We supply trade, retail and industry. SIHGA® wood construction engineers create design suggestions, advise on realisation, train users on site, and organise technical seminars for specialist areas in wood construction. Our innovations are packed exclusively in tailored system packaging and always include the installation instructions and high quality accessories.

Strong innovations

Our products are developed, carefully packaged and tested many times over in Austria. SIHGA® is the inventor of Alu-TeFix®, Betsi®, BeziFee®, BeziFix®, BohrFix®, DielenFix®, FassadenClip®, FugiFix®, GleitFix®, GoFix®, Herakulix®, HobaFix®, HobaFix® Max, Hobet®, Hozibo®, IdeFix®, JustiFix®, Klebsan®, KompeFix®, LamellenFix, L-GoFix®, Monitorix®, Pfalu®, Pfalu Aquastop®, Pick, Pick Max®, Pick PSA, Pick Engel®, Pick Out, Pocket Traverse, ProziFix®, Rest-X®, RomboFix®, SIHGAFIX®, Stabilix, Stegsan®, SystemFix®, TefaBind®, TefaFix®, TefaFlex®, TeFix®, TerrassenFix®, WabaFix® und ZaFix®.















#TAKETHEBEST #TAKESIHGA



We focus on service - use the all-inclusive services to your advantage



SIHGA® Academy

 Your advantage through knowledge: take advantage of the free seminars and workshops for qualified further training.

New! Also to watch on YouTube!



Become a development partner

- Use bundled knowledge from theory and practice
- Test new products even in the beta phase





Technology on tour

Book our SIHGA® Applications Engineer completely free of charge we are happy to support your team with advice and action directly on the construction site.



Technical support

• The "Technical Support" department is always available to help you with questions and for tips on tricky applications.

Simply e-mail **support@sihga.com** or call **+43 7612 74370 0**. We're happy to help!

Dimensioning service

We work with you to find the safest and simplest solution.
 Simply e-mail bemessung@sihga.com!



Pick check

 We think of security in completely new dimensions: have your SIHGA® Pick tested by an official institution with ultrasound.



BIM data

• Use 3D data from all SIHGA® products for your straightforward planning.

Secure is secure! With SIHGA®

Our all-inclusive services for your security

SIHGA® product developments. From practice for practice.

SIHGA® innovations. We secure YOUR Benefit.

SIHGA® specialist competence. Due to our specialisation in wood construction.

SIHGA® quality. Permanently tested and externally monitored.

SIHGA® ecology. We take care of the environment.

SIHGA® **system packaging.** Tailored for wood construction.

SIHGA® system catalogue. Technical information at a glance.

SIHGA® online. Calculations at the click of a mouse.

SIHGA Jointplan®. Anchor dimensioning software.

SIHGA **Terrassenplaner**®. Terrace planning software.

 ${\sf SIHGA}~\textbf{ProziFix}^{\texttt{@}}.~\texttt{Dimensioning}~\texttt{sheet}.$

We keep our promises.

Surface



galvanic zinc-coating, chrome 6 free, good corrosion protection under "normal" environmental conditions without direct weather exposure and with covered installation



galvanic zinc-coating, chrome 6 free, additional layers for greatly enhanced corrosion protection, surface is paintable, no contact corrosion in case of metals with aluminium or magnesium content



zinc dip-coating, paintable and has improved slip properties



galvanic zinc-coating, chrome 6 free, additional layers for greatly enhanced corrosion protection, surface is paintable, ...self-healing effect" in the event of damage to the protective layer



galvanic zinc-nickel coating, similar to SC 1, although significantly greater corrosion protection



aluminium zinc dip-coating, similar to hotdip galvanisation, with sheets and wires (for punched parts may mean bright cut edges, therefore only suitable for use with direct weather exposure)



high quality black-coating, abrasion-resistant and additional increase in corrosion protection



colour-coating made from stainless steel



galvanic zinc-coating, chrome 6 free, good corrosion resistance with indirect weather exposure and covered installation, very good slip properties, abrasion-resistant passivated layer prevents particles detaching and therefore no adhesion between thread and wood (reduces the screw-in torque)

All information about corrosion protection refers to tested products directly after production!

Material











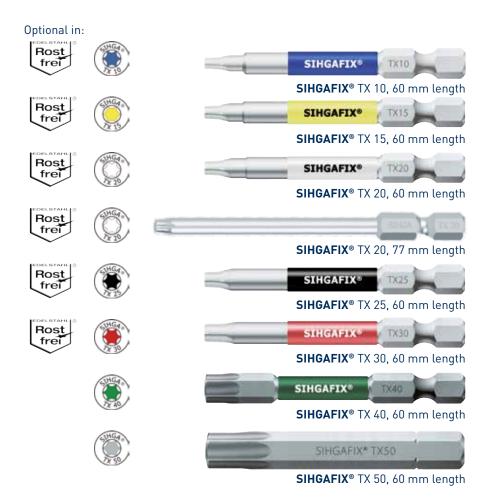




SIHGAMID® = fiberglass-reinforced plastic

SIHGAFIX®

SIHGA® Feature	YOUR Benefit
the original from SIHGA®	the first Quadro attachment for use in cordless screwdrivers, hammer screwdrivers, chucks and bit holders
length 60 mm, 77 mm	also screws easily in deep grooves
also made from hardened stainless steel	prevents rust from external sources occurring at the screw
vacuum ice-chill hardened	for extreme high strength and long lifespan
precisely milled drive zone	resulting in a very accurate fit
made in Germany	German tested workmanship for reliable quality
colour-coding system	each bit size is clear at first glance



DUO Bit

SIHGA® Feature

YOUR Benefit

lengths 150, 200 and 350 mm	tailored to the requirements in wood construction	
double Torx drive	for double lifetime	
made in Europe	European tested workmanship for reliable quality	
colour-coding system	each bit size is clear at first glance	



DUO-Bit TX 30, 150 mm length

DUO-Bit TX 40, 150, 200 and 350 mm length

DUO-Bit TX 50, 150 mm length

SIHGA® System Packaging

SIHGA® Feature	YOUR Benefit
height and width always the same	so the space needed is also always the same
always firmly closable	in combination with the closing flap particularly practical against unintended emptying
patented, externally visible holders for accessories	the accessories are always to hand and visible in the unopened pack
water-repellent surface	a great help in wet building weather
system size on the left underside	the practical scale is always available
montagepack specially developed for installation; patent-protected	the accessories required for installation and the installation instructions are always enclosed
Systemstift® enclosed in the installation pack	the carpenter's pencil that can also measure
minimontagepack specially developed for installation and resale	contents externally visible thanks to viewing panel







SIHGA® montagepack



SIHGA® Systemstift®

SIHGA® System Packaging

SIHGA® Feature	YOUR Benefit				
mehrwertpack	consists of four montagepacks				
specially developed for installation; patent- protected	the accessories required for installation and the installation instructions are always enclosed				
specially patented holders inside for accessories	so the accessories are always to hand				
always firmly closable	in combination with the closing flap, particularly practical				
objektpack®	package content for larger properties				
Reduced painting of cardboard boxes to protect the environment					







SIHGA® objektpack®

SIHGA® SystemFix®

SIHGA® Feature	YOUR Benefit			
display equipment for up to 160 montagepacks	less than half m² of space needed			
clear storage for up to 160 montagepacks	automatic moving-up of packages			
expandable and changeable as desired	shelf heights can be changed at any time and several SystemFix® can be connected to each other in a row			
content is checked automatically	your personal SIHGA® application specialist will be happy to to do this by arrangement			
forward-sloping compartment floors	so that the packages slide forward automatically			
over 1200 companies confirm that SystemFix® brings profits	the fact that 80 % of the time is needed for 20 % of the purchasing volume is optimised by SystemFix®			





SIHGA® Index/ Photo Credits

Limited edition

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Legal notes: SIHGA® products are subject to continuous development, technical modifications

and changes in the product range.

The technical data in this catalogue is provided to assist the authorised user to choose the appropriate fastener. It does not release the user from his responsibility to choose the right product and to check the actual conditions.

Please take note of the state of the art technology, building regulations and relevant safety regulations in force in planning and application of our products.

DeliPUries are exclusively based on our General Terms and Conditions in the valid version (page 20-21 of this catalogue).

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Any liability for printing and typesetting errors is excluded.

We cordially thank our customers for providing the reference photos of their building projects!

SIHGA® General Terms and Conditions of Business

(10.10.2021)

- 1.) Our deliveries, and all subsequent transactions, are performed exclusively on the basis of these terms and conditions of business. The ordering party's purchasing conditions are not binding on us. We enter into contracts exclusively with businesses, but not with consumers. With their order, the ordering party declares they are concluding the contract exclusively for entrepreneurial purposes. They shall provide proof of their commercial status upon request.
 - Unless a written objection is received within three days, the conditions of an order confirmation sent by us shall be deemed to be accepted by the ordering party.
- 2.) Our offers, price lists and cost estimates are non-binding. All orders and agreements, as well as commitments made by representatives, require our written confirmation in each case in order to be valid.
 - Our technical details and descriptions of the objects of the delivery are non-binding and are only approximations.
- 3.) Our prices are ex works from our site in 4694 Ohlsdorf near Gmunden.

 The prices offered as standard are quoted excluding VAT and are subject to the standard rate of VAT.

 Packaging is not collected.
- 4.) All delivery (performance) dates and delivery (performance) deadlines are approximate.
 - Claims for compensation by the ordering party due to late delivery / performance or non-performance are excluded. Partial services already provided must be accepted and paid for by the ordering party.
 - Partial deliveries (performance) and interim invoices are permitted, whereby payments must be made by the ordering party according to the specified payment conditions.
 - If an extension set for us by the ordering party is not observed without our being at fault, the ordering party's right of withdrawal is excluded. They can withdraw from the contract no earlier than two months after the original delivery date is missed
- 5.) Our goods are shipped from our factory in 4694 Ohlsdorf near Gmunden at the ordering party's risk, even if the freight and other costs are charged to us. The risk shall transfer to the ordering party with the transfer of the goods to the forwarder, etc. In the absence of any other agreement in individual cases, we shall be free to choose the carrier. The goods are only insured by us against transport damage upon written instruction from the ordering party and at their cost. Unless otherwise agreed in individual cases, within Austria, Germany and the Southern Tyrol our deliveries are free of charge.
 - If the ordering party does not accept the goods, after setting a 14-day period we can withdraw from the contract and/ or demand compensation due to non-fulfilment. We reserve the right either to demand 25 per cent of the agreed order total without proof of damages or reimbursement of the actual damages incurred.
 - The return of goods by the ordering party requires our written consent and is at the ordering party's costs and risk. The delivery note number and/or invoice number must be cited with each return.
- 6.) For all claims by the ordering party against us, they are entitled to default interest only to a maximum of 3% above the ECB base rate.
- 7.) Our invoices are payable within 10 days of the date of invoice without deduction. Other terms and discount agreements are noted separately. Only prompt payment in full in cash justifies the deduction of a discount.
 - If payment by instalment is agreed, default shall occur if the payment of just one instalment is late. All our outstanding receivables shall then fall due in full.
 - The ordering party is not entitled to withhold payments for any reason or to declare offsetting against our receivables. Insofar as the ordering party, in the case of a delivery or performance, reserves the right of retention in respect of our fee, this is limited in any case to the amount of the capital required to cover reasonable costs of improvement.
- 8.) To the exclusion of all claims, the ordering party shall immediately inspect the delivered goods or work and services performed after receipt of the delivery or notification of completion by us and shall immediately report identified defects in detail to us by registered letter. Defects identified subsequently must also be reported to us in writing immediately after their discovery.
 - The warranty period for moveable objects is six months. The burden of proof that a defect for which we are responsible was present on delivery shall lie with the ordering party.
 - At our discretion we can fulfil warranty claims such that the defect is repaired or replaced with defect-free goods, or we can grant a reasonable price reduction, in particular if we believe a repair would be possible only with unreasonably high costs for us. We shall not be liable for consequential damage occurring in connection with a warranty claim, for example after processing has already taken place.

With regard to the suitability of the delivered goods, we only guarantee that they can be used as defined in our conditions and provisions. We are not obliged to check whether the ordered goods are suitable for a specific purpose, not even as a secondary contractual obligation. Such properties shall only be deemed to be warranted where this is expressly stated by us in writing. Customary and/or production-related deviations in terms of dimensions, equipment, material and similar shall not be grounds for complaint.

Changes to our goods by the ordering party or their people shall lead to the full exclusion of our liability.

Our liability for damage caused as a result of material used by the ordering party is excluded.

- 9.) The delivered goods shall remain our property until full payment of the purchase price and all our receivables deriving from the business relationship with the ordering party, including secondary claims. A resale is only permissible if we have been informed of this in good time beforehand and have given our consent to the sale. In the event of our consent, the purchase price claim shall thereupon be deemed to have been assigned to us and we shall be entitled to notify the buyer of this assignment at any time.
 - If the ordering party defaults on their payment obligations toward us or if they breach one of the duties based on the agreed retention of title, the entire receivable shall become immediately payable. We also reserve the right to demand the return of the objects belonging to us, also without withdrawing from the contract, and to collect them from the ordering party, whereby the ordering party shall waive the assertion of a right of retention.
- 10.) In the case of a resale of SIHGA® products by the ordering party, this is only permitted with the original name. Moreover, the ordering party is not permitted to use our brands and/or product designations without our written consent.
- 11.) All claims for compensation against us are excluded, irrespective of the legal reason on which they are based, in particular also due to breach of contract and when concluding the contract, but also according to the conditions of the Product Liability Act for personal, material and pecuniary damages which are suffered as a result of a fault in the goods, whereby above all claims for compensation due to consequential damages, such as loss of production or lost profits and the like are excluded in full, unless we are guilty of malice or gross negligence. The burden of proof for such a degree of fault shall lie with the ordering party. Claims for compensation in any case shall exclusively include the basic costs for correcting the damages, but not consequential damages, lost profits or the like. They shall become statute-barred unless a limitation period occurs earlier at the latest two years after delivery has taken place.

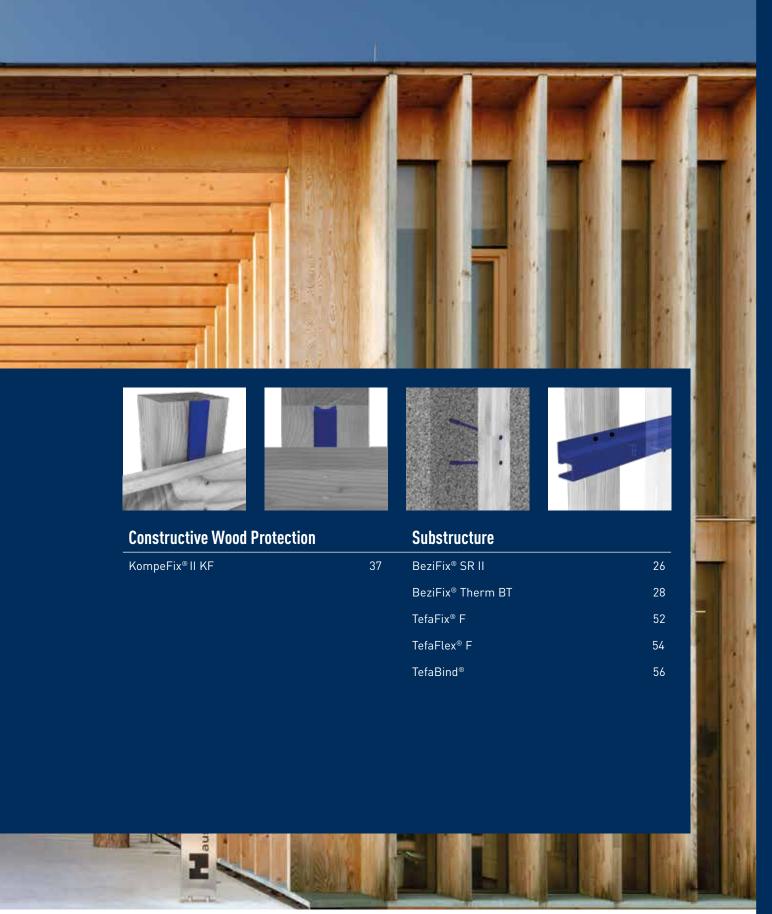
All claims for compensation and any redress against us must be asserted in the courts within six months or other wise shall expire. The return or exchange of ordered and supplied goods is not possible. If goods from the current delivery range are returned to us in undamaged original packaging, we shall be at liberty to take back the goods against payment of a processing fee of at least 20% of the value of the goods or to store the goods at the risk and expense of the ordering party or to return them to the ordering party.

- 12.) Any drafts, plans and other documents prepared by us are our sole property and may not be used by the ordering party or made accessible to third parties.
- 13.) The place of jurisdiction for all disputes arising directly or indirectly from the contract between the ordering party and us, in particular also regarding its validity, shall be exclusively the materially competent court in 4600 Wels.

The place of performance is 4694 Ohlsdorf near Gmunden.

The contractual relationship shall be governed exclusively by Austrian law to the exclusion of its conflict of law provisions and the UN Convention on Contracts for the International Sale of Goods.

In the absence of any other express written agreement, the contractual language shall be exclusively German. This shall not be affected if, in individual cases, we correspond or exchange information in other languages before or after the conclusion of the contract.







SIHGA® Feature

YOUR Benefit

Alu-TeFix® in A2 fastens wood on aluminium
(except SymbioFix® SFT) 2-3 mm without predrilling

prevents the formation of cracks or splitting in almost all hardwood and thermo-wood; saves working time

Alu-TeFix® made of hardened steel fastens wood on TefaFix® T/F without predrilling and countersinking

as TefaFix® absorbs the axial movement from swelling and shrinking of the wood, there is no danger of breakage

SIHGA® drill wings with special shape

pre-drills the boards at 6 mm and prevents lifting of the board while screwing; drilling wings break off when penetrating into the aluminium

SIHGA® further-developed multi-stage head

no displacement or chipping of the wood due to an extra thin head and saw tooth corrugation

in combination with KompeFix® II KF on conventional aluminium and in combination with TefaFlex® T/F on TefaFix® T/F the perfect solution

5,0 x 51

5,0 x 61

increases the lifetime of the wood and the screw

2,95

3,22

yes

yes

including SIHGAFIX® stainless steel, Systemstift® and installation instructions

time-saving, practical, precise; all accessories are included

1,30

1,30

quantity determination

200

200

54016

54026

www.sihga.com/Online Calculation

SIHG	A®	Dimension	Add-on Part up to	Ch	Characteristic Values*		
montage	epack	Alu-TeFix®	AD	Tensile For	ce F ₁ [kN]	Shear Force F ₂ [kN]	TefaFix®T/F
Art Nr	PU	d1 x l	[mm]	Head	Thread	Alu-Wood	

1,96

1,96

	SIHG	A ®	Dimension	Add-on Part up to		Characteristic Values*		Substr	ucture
m	ontage	epack	Alu-TeFix® A2	AD	Tensile	Force F ₁ [kN]	Shear Force F ₂ [kN]	TefaFix®T/F	Alu 2-3 mm
Art	. Nr.	PU	d1 x L	[mm]	Head	Thread	Alu-Wood		
54	066	200	5,0 x 51	33	1,96	0,85	1,40	yes	yes
54	076	200	5,0 x 61	43	1,96	0,85	1,40	yes	yes

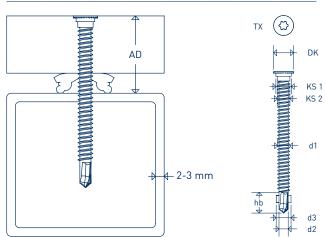
^{*} characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ (Larch)

33

43

Dimensions [mm] Alu-TeFix®

d1	TX	DK	KS 1	KS 2	d2	d3	hb
5,0	20	8,5	6,5	5,4	3,9	6,4	10





SIHGA® TIP:

When used in combination with woods that contain a lot of tannins (e. g. cumaru, oak, robinia, garapa, ...) we recommend Alu-TeFix® in A2.





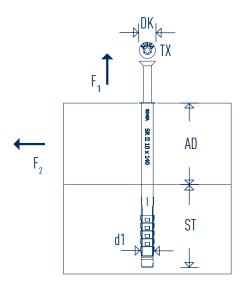
SIHGA® Feature

YOUR Benefit

works in vertical coring bricks, light, normal and cellular concrete, solid brick, and solid sand-lime bricks	particularly good bearing capacity, even in hollow brick		
integrated anti-rotation lock	for easy installation		
fastens 20 - 200 mm thick materials	universally usable with low storage costs		
designed with extra thin waistband	can be screwed flush-mounted		
screw packaged already inserted into anchor	fast, saves installation work on-site		
includes SIHGAFIX®, Hozibo® or Stabebo SDS drill and installation instructions	time-saving, practical, precise, complete accessories included; Hozibo® when drilling in brick or Stabebo SDS, the concrete drill		
design values	SIHGA® performs the calculation for you		

SIHGA®	SIHGA®		Dimension	Installation Part	Characteris	stic Values
montagepack Hozibo®	montagepack Stabebo		BeziFix® SR II	AD	Tension F ₁ / Transverse F ₂	Tension F ₁ / Transverse F ₂
Art. No.	Art. No.	PU	d1 x L	[mm]	HLZ [kN]	Beton [kN]
32016	32516	50	10 x 80	20	0,90	3,00
32026	32526	50	10 x 100	40	0,90	3,00
32036	32536	50	10 x 120	60	0,90	3,00
32046	32546	50	10 x 140	80	0,90	3,00
32056	32556	50	10 x 160	100	0,90	3,00
32066	32566	50	10 x 180	120	0,90	3,00
32076	32576	50	10 x 200	140	0,90	3,00
32086	32586	50	10 x 230	170	0,90	3,00
32096	32596	50	10 x 260	200	0,90	3,00

Min. setting depth of 60 mm in load-bearing wall HLZ = hollow brick

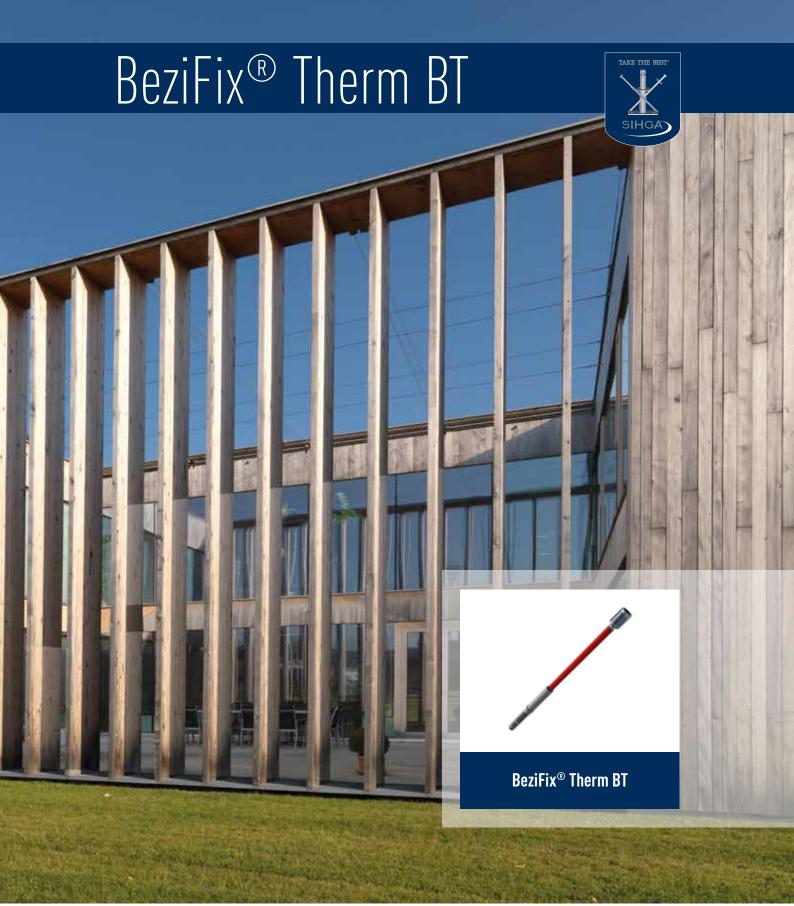


Dimension [mm]

BeziFix® SR II DK 10 40 14 60

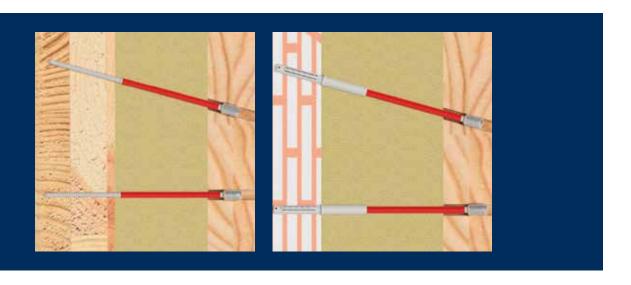






SIHGA® Feature **YOUR Benefit** fastens the entire load of the horizontal and vertical takes the entire load of the facade covering facade covering fastens on wood or brickwork with the can be installed on any foundation, with the BeziFix®Therm TR dowel BeziFix® Therm TR anchor the right drill is always enclosed for precise drilling through all materials. Hozibo® SDS even leaves hollow bricks undamaged SC 3-corrosion protection and insulation protect also protects the substructure of the facade against rust and thermal bridges saves underlay work for levelling as well as aligns the facade counter-battens for full-surface thermal insulation prevents thermal bridges easy installation for soft, hard, blown-in and full fast, thereby saving time and wage costs surface insulation up to 300 mm; can be used horizontally and vertically including Systemstift® and installation instructions enclosed accessories - practical and time-saving

at www.sihga.com (facade)





online calculation

SIHG	A ®	Dimension	Insulation	Example Calculation	
montage	epack BeziFix® Therm BT		max.	Total weight of facade	Fastening Distance
Art. No.	PU	d1 x L	[mm]	[kg/m²]	EV [cm]
29096	50	7,2 x 220	100	25	160
29106	50	7,2 x 240	120	25	147
29116	50	7,2 x 260	140	25	129
29126	50	7,2 x 280	160	25	115
29136	50	7,2 x 300	180	25	104
29146	50	7,2 x 320	200	25	95
29156	50	7,2 x 340	220	25	87
29166	50	7,2 x 360	240	25	81
29176	50	7,2 x 380	260	25	75
29186	50	7,2 x 400	280	25	70
29196	50	7,2 x 420	300	25	66

Calculation with wind suction 0.8 kN / m^2 - counter battens 50 x 80 mm C 24 - horizontal distance 600 mm Quantity determination = m^2 : substructure distance [m]: EV distance [m] x 2

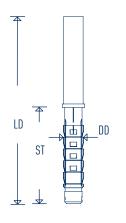
SIHG	A®	Dime	nsion	Seat Depth	Drill Length	Drill Length	Drill Length	Correct Screw Length	Base
montage	epack	BeziFix® A	nchor TR	ST	Hozibo®	Stabebo	SDS- Hammer drill	BeziFix® Therm BT	
Art. No.	PU	Туре	DD x LD	[mm]	[mm]	[mm]		[mm]	
29216	50	TRH 450	10 x 100	60	450	-	-	220 - 360	Brick*
29276	50	TRS 450	10 x 100	60	-	450	-	220 - 360	Concrete
29226	50	TR 600	10 x 100	60	-	-	600	380 - 420	Brick*, Concrete

^{*}these include: solid brick, perforated brick, lightweight concrete, Pore drilling, foam concrete, Sand-lime brick; only rotating drill in bricks

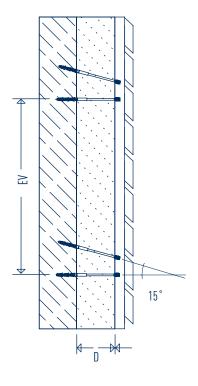
Dimension [mm]

d1	DK	HK	BK
7,2	16	20	13

BK= drilling diameter for head DK









BeziFix® Therm BT Accessories

SIHGA® Feature	
Hozibo® SDS Drill	

YOUR Benefit

drill for precise drilling with SDS-slot drills wood and bricks in one process automatic impact stop even leaves hollow bricks undamaged

Stabebo SDS Drill

drill for precise drilling with SDS-slot and 4-edged drill geometry

specially for applications in reinforced concrete

BeziFix® Therm TR Dowel

works in vertical coring bricks, light, normal and cellular concrete, solid brick, and solid sand-lime bricks, pore drilling high loading capacity, even in hollow bricks

integrated anti-rotation lock and plugs

for easy installation







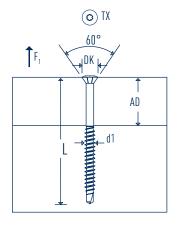
SIHGA® Feature

YOUR Benefit

fastens wood to wood with small decorative head \emptyset 5.2 mm	facade formwork is fastened directly in the spring			
fastens without pre-drilling	fast, saves installation work			
fastens without splitting the wood	also clean fastening close to the edge			
made from hardened stainless steel	rust-free fastening, extremely break-proof			
including SIHGAFIX® stainless steel, Systemstift® and installation instructions	time-saving, practical, all accessories enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves			
also available with black surface (SC 9 coating)	also fastens dark materials, visually appealing			

Dimension [mm] F-BohrFix® ES/SC

d1	TX	DK	Decorative Head
3,2	10	5,2	60°



SIHGA®		Dimension	Installation Part
montagepack		F-BohrFix® ES	AD
Art. No.	PU	d1 x L	[mm]
27956	500	3,2 x 35	14
27966	500	3,2 x 40	16
27976	500	3,2 x 50	20
27986	500	3,2 x 60	24
		F-BohrFix® SC 1	
32936	500	3,2 x 35	14
32946	500	3,2 x 40	16
32956	500	3,2 x 50	20
32966	500	3,2 x 60	24
		F-BohrFix® ES/SC 9	
27955	500	3,2 x 35	14
27965	500	3,2 x 40	16
27975	500	3,2 x 50	20
27985	500	3,2 x 60	24





Timber outdoors should only be fastened with stainless steel products.







FassadenClip® FCS

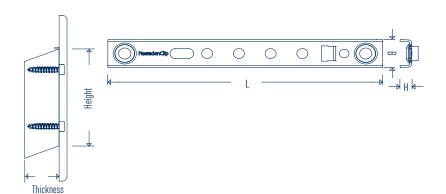






SIHGA® Feature **YOUR Benefit**

patented facade fastening, invisibly screwed, made and developed in Austria	the optically elegant surface is created simply, flexibly and without auxiliary tools
suitable for almost all wood types with profile height 57-95 mm	both rhombus and square-shaped profiles can be professionally fastened
automatic distance to the substructure is 5.5 mm	the facade remains optimally ventilated, timber can dry well
freely selectable reveal width, we recommend 10 mm	the recommended joint width can be installed automatically without further aids
timber remains undamaged on all visible surfaces	timber is screwed from behind, this prevents direct weathering and ensures a durable facade
includes SIHGAFIX®, all fastening screws, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed
two screw points per FassadenClip® in the facade panel	creates the same stability as when visibly screwed, prevents warping of the timber
quantity calculation per m²	1: substructure distance [m] : (height of facade profile [m] + join [m])



Dimension [mm] FassadenClip® FCS В 115 15 5,5

15

15

5,5

5,5

130

145

SIHG	A®	Dimension	Dimension of facade profile			
montage	epack	FassadenClip® FCS	Height [mm]		Thickness [mm]	
Art. No.	PU	Туре	min.	max.	min.	
32355	300	115 x 17	57	68	19	
32365	300	115 x 22	57	68	24	
32375	300	115 x 28	57	68	30	

		. 7 L -			
32355	300	115 x 17	57	68	19
32365	300	115 x 22	57	68	24
32375	300	115 x 28	57	68	30
32385	300	130 x 17	69	80	19
32395	300	130 x 22	69	80	24
32405	300	130 x 28	69	80	30
32415	300	145 x 17	81	95	19
32425	300	145 x 22	81	95	24
32435	300	145 x 28	81	95	30

L-BohrFix® FB Ø 4,5 x 29



BohrFix® FB Ø 4,2 x 17 / 22 /28







FugiFix® FF

SIHGA® Feature

YOUR Benefit

universal joint spacer for facades	joint widths of either 5, 6, 7 or 8 mm can be set quickly
dut to of the special geometry	the FugiFix® FF cannot fall into the joint and can easily be removed again
made from SIHGAMID®, the fibre-glass reinforced plastic originating from space research	extremely heat-, frost- and UV-resistant

SIHG	6A®	Dimension	Joint Widths
montag	epack	FugiFix®	
Art. No.	PU	Туре	[mm]
34966	5	FF	5, 6, 7, 8





SIHGA® TIP:

To extend the life of timber constructions, we recommend using KompeFix® II KF.



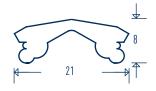
KompeFix® II KF

SIHGA® Feature

YOUR Benefit

universal, constructive wood protection for facades with height 8 mm and width 21 mm	creates distance between the woods; thereby allowing them to breathe and increasing their lifespan
developed, patented and made in Austria	local quality, experience from more than 14 years of facade construction included
the roll with 4.5 metres length is only fastened structurally	fast and easy, can be fixed as desired (screwable) and cut to length
patented, helps to seal the screw	increases the service life of the construction
the pre-load effect integrated through the specific shape compensates for the swelling and shrinkage of the timber	improves the appearance of the facade
monitored production from polyvinyl chloride, with a special recipe	remains permanently dimensionally stable, is heat-, frost- and UV-resistant
quantity calculation per m ²	1: substructure distance [m] : 4.5
includes installation instructions	is time-saving and enclosed for practicality

SIH	GA®	Dimension		Dimension	
monta	gepack	KompeFix®		[mm]	
Art. No.	PU	Туре	Width	Height	Length
41006	8 x 4,5 m	II KF	21	8	4500





















SIHGA® Feature	YOUR Benefit
Connectors for façade slats on different substructures	Whether wood, steel or concrete, the connector can be fastened to almost any substrate
Node connection made of two identical parts (1 connection consists of 2 pieces)	Can be pre-assembled without confusion and on the slat in the factory
The first connector on the market that enables the simple and cost-efficient installation of wooden slats	Quick and visually very appealing way to mount wooden slats on façades
Thanks to the ingenious coupling of the connectors by means of a locking screw, LamellenFix mounted in series are loaded equally	The LamellenFix has a high assembly tolerance, as the connection can be made perfectly even with a layer difference (in a longitudinal direction) of up to 8 mm
The geometry of the connector profile ensures that the water drains off quickly	Structural wood protection was always taken into account in the development and thus offers a long construction service life
Developed, patented and manufactured in Austria	Highest European quality and added value
Statically loadable in five directions	horizontally, vertically and under tension with high tested static values
Made of aluminium under monitoring and anodised	Durable, dimensionally stable quality, rust-free
All enclosed screws in stainless steel	Approved for use in NKL 3
Includes SIHGAFIX® and assembly instructions	Time-saving, practical, precise; All accessories are included







SIHGA® TIP:

The fixing screws for the respective substrate must be ordered separately.



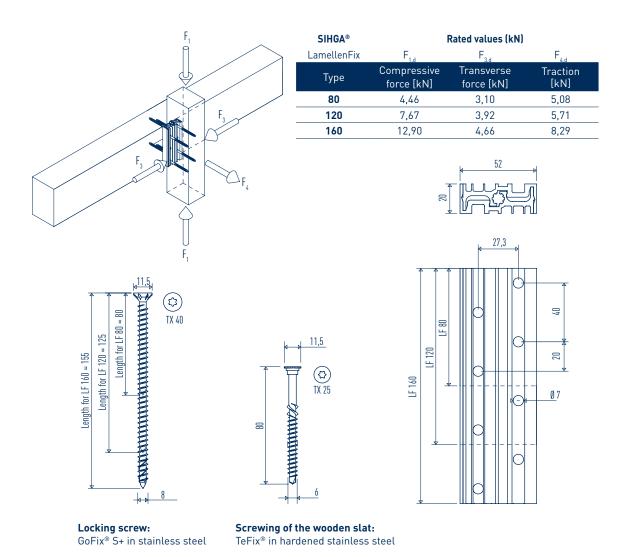








LamellenFix



SIHGA® Dimension		ension	Slat		Substrate		
montage	pack	LamellenFix	TeFix® in slat per connector	min. Width	min. Height (depth)	min. Height	min. Width (depth)
Art. No.	PU	Тур	6,0 x 80	[mm]	[mm]	[mm]	[mm]
31206	20*	80	4	60	80	80	80
31216	20*	120	4	60	80	120	80
31226	20*	160	6	60	80	160	80

^{*} Corresponds to 10 connections







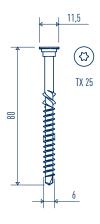




Fastening for substructure

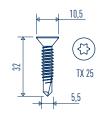
Substructure wood

TeFix® in hardened stainless steel



Substructure steel up to 4 mm

Sheet metal screw in stainless steel hardened



Substructure concrete

Concrete anchor in stainless steel



SIHGA®

TeFix® hardened stainless steel

Art. No.
ALC. INO.
54416

SIHGA®

Tapping screw,

nardened Styless Steel	
Art. No.	
31306	

SIHGA®

Concrete anchor A4

	Art. No.	
	41906	

The secure connector for architecturally and structurally demanding slatted facades

- Best suited for slat dimensions of >60 x 180 mm
- Few attachment points for large wooden slats
- simple, quick assembly









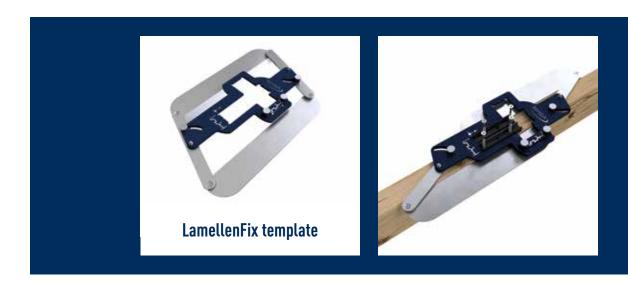


LamellenFix template

SIHGA® Feature	YOUR Benefit
For all LamellenFix models	For the rational and precise assembly of Apply LamellenFix to the slat and to the substructure
Automatically finds the centre of the slat or substructure	By moving the two side parts towards each other, the parallelogram closes and centres the template on the component
The template can be clamped onto the horizontally mounted substructure and the LamellenFix inserted	You have both hands free for screwing
Developed and produced in Austria	Superlative European quality and added value

SIHGA® LamellenFix template Art. No. 31716

SIHGA®	
DUO Bit TX 40, 350 mm	
Art. No.	
31821	





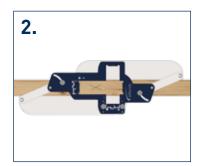
SIHGA® TIP:

When inserting the self-tapping screw into the LamellenFix, we strongly recommend using the DUO Bit TX 40, 350 mm length, as this is indispensable in various installation situations. See LamellenFix application, page 43.



LamellenFix application

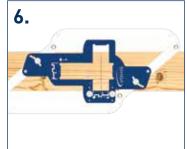


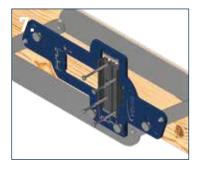


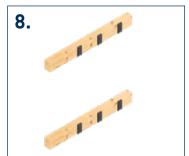


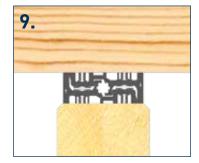










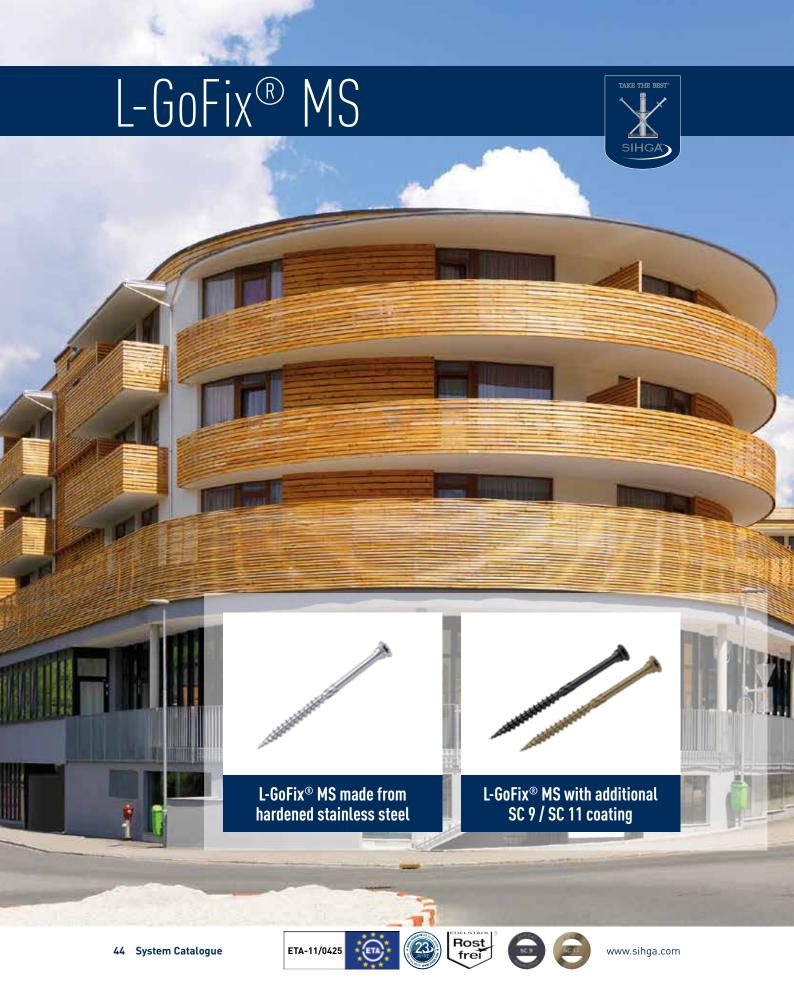












SIHGA® Feature **YOUR Benefit** fastens wood to wood without pre-drilling and reduces crack formation or splitting of the timbers, without countersinking even board materials, saves work time, additional pre-drilling extends the life of the wood also attaches coverings made out of hard and creates a perfect look, with these woods additional pre-drilling is recommended thermo-wood high constructive wood protection and refined multi-stage head with small head diameter surface as a result of the plane head special thread angle with sharp thread edges high pull-out value SIHGA® point with special shape guarantees fast setting of screws without splitting SIHGA® ribs on shaft and slip coating light, fast rotation and optimum fit in the wood are guaranteed made from hardened stainless steel rust-free fastening, extremely break-proof also available with black (SC 9 coating) and optimum on dark materials, or can be used for antique look (SC 11 coating) larch, Douglas fir and Bangkirai including SIHGAFIX® stainless steel, Systemstift® time-saving, practical, precise, all accessories and installation instructions enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves When using coatings such as oils, glazes and pre-greying, it is essential to consult the coating

manufacturer. As a rule, the manufacturer specifies the minimum material quality of the binding agent.

If the manufacturer is not known, we recommend material quality A4 (L-BohrFix® MB A4).





using L-BohrFix® MB A4.







In case of applications in the pool area with timbers and with a high tannin content, we recommend





SIHGA® Feature

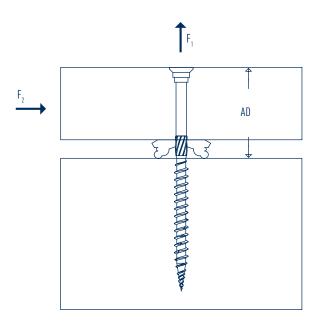
YOUR Benefit

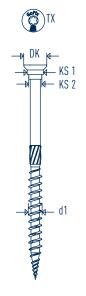
quantity calculation

SIHGA® performs the calculation for you

including SIHGAFIX® stainless steel, Systemstift® and installation instructions

time-saving, practical, precise, all accessories enclosed, SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves





Dimension [mm] L-GoFix® MS d1 TX DK KS 1 KS 2 4,0 15 5,5 4,0 3,7 4,5 20 6,9 5,2 4,2

SIHGA® D		Dimension	Installation Part		Character	istic Values**	
montag	jepack	L-GoFix® MS	AD	Tensile Fo	rce F ₁ [kN]	Shear For	ce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
24106	500	4,0 x 30	12	0,36	1,01	0,51	1,01
24116	500	4,0 x 35	14	0,36	1,22	0,59	1,14
24126	500	4,0 x 40*	16	0,36	1,42	0,68	1,22
24136	500	4,0 x 45	18	0,36	1,62	0,76	1,27
24146	500	4,0 x 50*	20	0,46	1,82	0,85	1,32
24156	500	4,0 x 60*	24	0,46	2,16	1,02	1,40
24226	400	4,5 x 40*	16	0,48	1,55	0,74	1,39
24236	400	4,5 x 45*	18	0,48	1,77	0,83	1,49
24246	400	4,5 x 50*	20	0,61	1,99	0,92	1,54
24266	400	4,5 x 60*	24	0,61	2,36	1,11	1,64
24276	300	4.5 x 70*	28	0.61	2.72	1.29	1.73

Subject to technical modifications and errors. Status of approval 12.2022



SIHGA® TIP:

Requirement in items per m² is determined:

1: substructure distance [m]: (height of facade profile [m] + join [m]) x 2











^{*} also available with SC 9 coating

^{**} characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ (Larch)

SIHGA® Feature

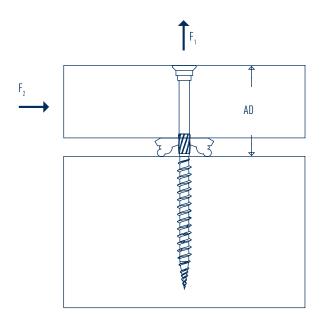
calculation of quantity

including SIHGAFIX® stainless steel, Systemstift® and installation instructions

YOUR Benefit

SIHGA® performs the calculation for you, just read the installation part thickness

time-saving, practical, precise, all accessories enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves





Dimension [mm] L-GoFix® MS DK KS 1 KS 2 TX 5,0 25 8,5 6,0 4,8

11,5 7,2 5,8

6,0

30

SIHGA®		Dimension	Installation Part	Characteristic Values**			
montag	epack	L-GoFix® MS	AD	Tensile Fo	rce F ₁ [kN]	Shear Fo	rce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
24316	200	5,0 x 45*	18	0,76	1,82	0,89	1,65
24326	200	5,0 x 50*°	20	0,95	2,14	0,99	1,78
24336	200	5,0 x 60*°	24	0,95	2,53	1,19	1,88
24346	200	5,0 x 70*	28	0,95	2,93	1,39	1,98
24356	200	5,0 x 80*	32	0,95	3,72	1,59	2,18
24366	200	5,0 x 90*	36	0,95	4,12	1,79	2,27
24376	200	5,0 x 100*	40	0,95	4,51	1,97	2,37
24406	100	6,0 x 70	28	1,64	3,31	1,58	2,51
24416	100	6,0 x 80	32	1,64	4,21	1,80	2,73
24426	100	6,0 x 90	36	1,64	4,66	2,03	2,85
24436	100	6,0 x 100	40	1,64	5,10	2,25	2,96
24446	100	6,0 x 120	50	1,64	5,10	2,45	2,96
24456	100	6,0 x 140	70	1,64	6,00	2,69	3,18
24466	100	6,0 x 160	90	1,64	6,00	2,69	3,18

Subject to technical modifications and errors. Status of approval 12.2022

* also available with SC 9 coating
o also available with SC 11 coating
** characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ [Larch]











L-GoFix® MS A2

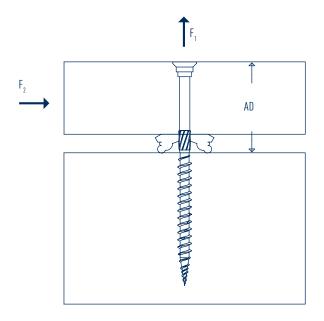
SIHGA® Feature YOUR Benefit

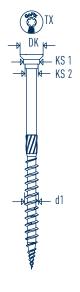
Made from A2 stainless steel	stands out thanks to its good corrosion resistance and is best used in moderate, corrosive environments
multi-stage head with small head diameter	high constructive wood protection and refined surface as a result of the plane head
special thread angle with sharp thread edges	high extraction value
SIHGA® point with special shape	guarantees fast setting of screws without splitting
SIHGA® ribs on shaft and slip coating	light, fast rotation and optimum fit in the wood are guaranteed
including SIHGAFIX® stainless steel, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves

Because of the material properties it is strongly advised to generally pre-drill the add-on part (screw diameter + 0.5 -1 mm). The substructure, due to the different bulk densities and moisture, also in conifers, should in most cases be pre-drilled over the entire thread length with \emptyset 3 mm. If in doubt, we recommend carrying out pretrials









Dimension [mm] L-GoFix® MS A2 KS 1 KS 2 DK 20 6,9 5,2 4,2 5,0 25 8,5 6,0 4,8

SIHGA®		Dimension	Installation Part	Characteristic Values**			
montage	epack	L-GoFix® MS A2	AD	Tensile Fo	rce F ₁ [kN]	Shear Fo	rce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
22226	400	4,5 x 40	16	0,48	1,55	0,74	1,15
22236	400	4,5 x 45	18	0,48	1,77	0,83	1,21
22246	400	4,5 x 50	20	0,61	1,99	0,92	1,26
22266	400	4,5 x 60	24	0,61	2,36	1,07	1,35
22276	300	4,5 x 70	28	0,61	2,72	1,22	1,45
22316	200	5,0 x 45	18	0,76	1,82	0,89	1,36
22326	200	5,0 x 50	20	0,95	2,14	0,99	1,44
22336	200	5,0 x 60	24	0,95	2,53	1,18	1,54
22346	200	5,0 x 70	28	0,95	2,93	1,33	1,64
22356	200	5,0 x 80	32	0,95	3,72	1,57	1,84
22366	200	5,0 x 90	36	0,95	4,12	1,67	1,94
22376	200	5,0 x 100	40	0,95	4,30	1,72	1,98

Subject to technical modifications and errors. Status of approval 12.2022



SIHGA® TIP:

When using coatings such as oils, glazes and pre-greying, it is essential to consult the coating manufacturer. As a rule, the manufacturer specifies the minimum material quality of the binding agent. If the manufacturer is not known, we recommend material quality A4 (L-BohrFix® MB A4).



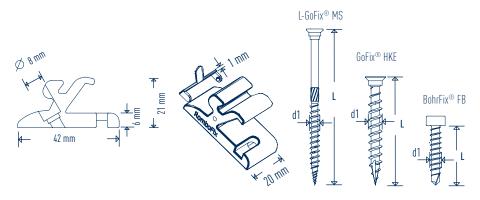


^{**} characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ (Larch)



SIHGA® Feature	YOUR Benefit
developed, patented and made in Austria	local quality, experience from more than 150,000 m² invisibly screwed facades included
facade fastening, invisibly screwed	the optically elegant facade is created extremely quickly, without damaging the surface
for rhombus beams from wood, modified wood or WPC, which are approved by SIHGA®	saves extensive time, even beams that are not completely straight are fastened professionally
compensation clip integrated	compensates irregularities in the profile width
made from SIHGAMID®, the reinforced plastic originating from space research	fastens more permanently than stainless steel, is extremely break-proof, heat-, frost- and UV-resistant
automatic distance to the substructure is 6 mm	the facade remains well-ventilated, timber can dry well
even joint spacing	join width specified by profile
includes SIHGAFIX® stainless steel, all fastening and fixing screws and installation instructions	time-saving, practical, all accessories enclosed, SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves
with technical fire-protection assessment	usable for building classes 1, 2, 3 ,4, 5
calculation of quantity	calculated per m²: 1: Substructure distance in m: (high rhombus beam + joint in m)

SIHGA®			Dimen	sion		System	Screws	Substructure
montag	epack	RomboFix®				GoFix® HKE	BohrFix® FB	Height
Art. No.	PU	Туре	L	В	Н	d1 x L	d1 x L	[mm]
40416	100	RF 40	42	20	21	5,0 x 40	4,2 x 22	30 - 45
						L-GoFix® MS	BohrFix® FB	
40406	100	RF 60	42	20	21	4,5 x 60	4,2 x 22	> 45





RomboFix® RF also fastens privacy shields, fences, balconies, blinds, easily and precisely.







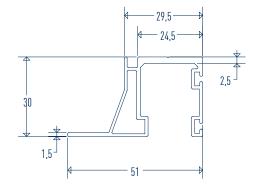
SIHGA® Feature

YOUR Benefit

1-piece system	can be combined with the counterpart for terrace application
also available in SC 9 coated	continuous black joint optic
profile open at the back	prefabrication of the parts possible by screwing on the rear
lateral flange	easy mounting on the existing facade substructure
special inner geometry	many connections possible with TefaBind® connector
trapezoidal shape	perfect water drainage guaranteed
TefaBind® connector	endlessly extendable in length
aluminium	durable, machinable with conventional tools and machines
universally combinable	for use also optimally with SenoFix® FT*
combinable	in case of storage with the counterpart can be used also for the terrace

^{*} Available from specialist timber dealers

SIH	GA®		TefaFix® F	
Pacl	kage	Туре	Surface	Length
Art. No.	PU			[mm]
52102	10	4400	bright	4400
52012	10	4400	SC 9	4400









SIHGA® TIP:

To attach the TefaFix® F, we recommend BohrFix® FB 4.2 x 28/43 mm in stainless steel. Due to the linear expansion of the TefaFix® F, we recommend pre-drilling the hole for the fixing screw at least 2 mm larger.



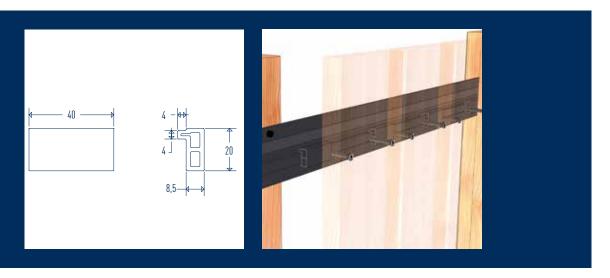






SIHGA® Feature **YOUR Benefit** minimum contact area of the profiles in case of special geometry visible screwing, allows bowling up of the profiles stress-free act as punctual supports for the facade profiles ventilation and drainage of the water is guaranteed, especially with vertical installation of the facade profiles jams when inserted into the TefaFix® F can be inserted into the intended shaft of the TefaFix® F and holds, no complex and costly fixing necessary 40 mm length suitable for all profile widths 8.5 mm height finished distance of the profile to the substructure according to the state of the art, optimal ventilation and drainage

SIH	GA®		TefaFlex® F	
monta	gepack	Length	Width	Height
Art. No.	PU			[mm]
52126	300	40	20	8,5





One piece of TefaFlex® F is required per joint.







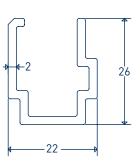




SIHGA® Feature **YOUR Benefit** for endless joining of TefaFix® F TefaBind® connector SC 9 coated continuous black joint optic profile open at the front with the supplied BohrFix® FB 4.2 x 17 mm in stainless steel the TefaBind® can be easily fixed durable, with conventional tools and machines aluminium workable all-purpose all longitudinal and transverse connections can be made with the TefaBind® including assembly instructions and 2 pcs. time-saving, practical, precise, all accessories are BohrFix® FB 4.2 x 17 mm per TefaBind® included

SIH	GA®		TefaBind®	
montag	gepack	Length	Width	Height
Art. No.	PU	[mm]	[mm]	[mm]
52056	25	250	22,0	26,0

BohrFix® FB Ø 4.2 x 17







SIHGA® TIP:

To ensure longitudinal expansion TefaFix® F must have a distance of 10 mm at the longitudinal joint and the TefaBind® may only be screwed on one side.





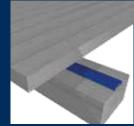




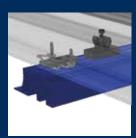
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Constructive Wood Protection

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TerrassenFix® Air



Guarantee Up to 23 Years

In the event of correct processing and standard use according to the SIHGA® installation instructions and SIHGA® design recommendations, SIHGA® guarantees the functionality of the SIHGA® fastenings for a period of 23 years for the original buyer, first buyer, according to the following conditions.

Guarantee for Our Customers

If a defect occurs within 23 years of the date of purchase, which led or leads to the functioning of the fastenings supplied by SIHGA® failing, SIHGA® shall replace the defective product. Following a check by an appropriate expert, the corresponding replacement product shall be provided to the first buyer by SIHGA® free of charge. The first buyer or other beneficiary of the guarantee themselves is responsible for the costs for the replacement itself, notably also for the removal and installation. In the event of a replacement, irrespective of the period of use of the failed fastening, unless specified otherwise in the individual case, the provision of an equivalent component for the fastening purpose is also possible. The guarantee is not extended by possible guarantee cases.

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Conditions and Requirements

- The resistance against weathering, ozone and UV radiation applies for a period of 23 years under Central European weather conditions to fastening materials made of metal, and for a period of 15 years to fastening materials made of plastic; discolouration of the surface cannot be ruled out and does not justify a guarantee claim here.
- Use of surface treatments, which do not contain organic solvents or solvents with aromatic hydrocarbons (note processing instructions, product and safety datasheets from the manufacturer).
- Processing according to SIHGA® installation instructions and design recommendations in the most recent respective version.
- Compliance with design recommendations for terrace construction, applicable standards in wood and facade construction and with processing recommendations of the wood supplier(s).
- Use in temperatures between -30 °C and +70 °C with static loading.

Even if only one of these requirements is not met, a claim under guarantee is excluded. Colour differences are not grounds for a claim. Furthermore, a claim under guarantee is excluded in the event of the following types of use of the respective SIHGA® product:

- In chemically contaminated atmospheres (industry, ...) particularly with sulphur or chlorine compounds such as H₂SO₂, HCl, ...
- Use partly or fully in water;
- If the stated temperature range is exceeded.

Making Claims

After discovering a product defect, a claim must be made immediately to SIHGA® in writing to the exclusion of other claims, providing the proof of purchase, in all cases within 14 days of discovery.

The claiming person must grant the expert from SIHGA® unrestricted access to the site, building or property where the fastening was installed in order to inspect the installation condition, photograph the installed product, and take samples of the fastening subject to the guarantee.

Third parties are not authorised to make statements or assurances on behalf of SIHGA® regarding the quality or usage properties of SIHGA® products, which go beyond the details provided in this guarantee. SIHGA® is not bound by such statements. Austrian law shall apply exclusively to this guarantee.

The exclusive place of jurisdiction for any claims arising from this is the materially competent court for 4600 Wels | Austria. The General Terms and Conditions of SIHGA® GmbH shall apply.

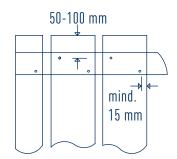
www.sihga.com System Catalogue 61

Design Recommendations - for Terrace Construction

Wood moisture-content must not be more than 16 % ± 2 % when laying. Ideally, rift or half-rift goods (planks with standing annual rings) should be used.

The fastening distance to the end-grain must be at least 50 mm and not more than 100 mm!

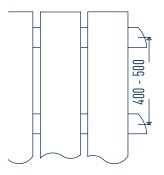
For woods high in tannin content, screws may become coated, because of chemical reactions this may lead to corrosion and dark discolouration. In principle, only stainless steel should be used for fastening terraces!



For the centre distance from the substructure, we recommend, for:

Thermo-wood and hardwood: 400 - 450 mm Larch: 400 - 500 mm

Short axial distances ensure that the swell and shrinkage-related warping or distortion of individual terrace planks is limited and that the terrace remains even and obstacle-free. The substructure should be made from TefaFix $^{\circ}$ T or the same wood type as the planks.

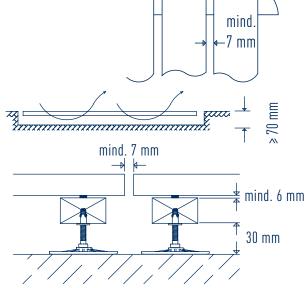


The joint distance for plank widths 90 - 120 mm should be at least 7 mm or 6 % of the plank width!

The planks must not be blocked in the joint!

For recessed terrace structures with a low installation height, a distance from the floor to the top edge of the board of \$70 mm is required, as well as additional openings in the surface (grids, etc.) to enable ventilation of the terrace structure.

The distance between terrace planks and substructure should be at least 6 mm, in order to guarantee the ventilation of the terrace and to prevent a capillary effect, this is also the case for objects on the terrace.





SIHGA® TIP:

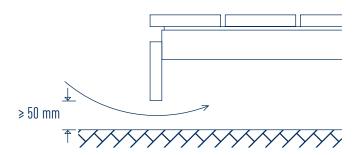
With applications close to the pool surround, we recommend L-BohrFix® MB A4 (page 70) for visible or GleitFix® GF CS (page 76) for invisible fastening!

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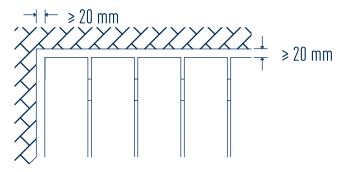
The longitudinal joint of decking planks should not be completed directly on the substructure, but between two substructures. Even with the longitudinal joint, a gap of at least 7 mm must be maintained.

Plank joints on the substructure would lead to increased damp and subsequently to early damage.

There must be a distance of at least 30 mm between the substructure and ground in order to prevent damage due to dampness! This distance should be bridged with adjustable feet or EPDM materials, but never with granulate material or wood. Rising damp in the soil should be prevented.



If the side of the terrace is closed with a cover board, a ventilation opening of ≥50 mm (continuous) must be maintained for ventilation of the terrace construction. The cover board should not touch the ground.



When connecting the terrace to the adjacent building parts, a distance of ≥ 20 mm must be observed so that the joints cannot close either through dirtor changes to the planks. The unhindered drainage on and be neath the terrace must be permanently guaranteed. The use of drainage grates (Terrassen Fix Aqua®) is recommended for this purpose.

The terrace should be cleaned regularly.

Recommendation Predrill Diameter and Type of Wood

Roof Cladding Substructure		adding Substructure Predrilling		Recommended Screw	
Softwood	Softwood	Recommended	Ø of screw	L-GoFix® MS	
Hardwood	Hardwood	Required	Ø of screw +0.5 - 1 mm	L-GoFix® MS or L-BohrFix® MB A4	
All	TefaFix®, Symbio- Fix® and Aluminium	Required	Ø of screw +0.5 - 1 mm	Alu-BohrFix® MB	
All	TefaFix®, Symbio- Fix® and Aluminium	Not Required*	-	Alu-TeFix®	
All	All Woods	Not Required*	-	TeFix®	

For wood with high tannin content we recommend L-BohrFix® MB A4 for wood substructure and Alu-TeFix® in A2 for aluminium substructure.

* except for extremely hard wood (e.g. lpé) with Ø screw

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HFA inspected



SIHGA® is the first and only company that has succeeded in offering all the fasteners required for the construction of a terrace HFA inspected (Holzforschung Austria).

Holzforschung Austria is considered one of the most important institutions for the certification of wood products in the German speaking countries.

Quality, safety and reliability - voluntarily externally monitored.

The following products have been awarded HFA inspected:

GleitFix®

HFA inspected in combination with larch, thermo ash and Accoya

Larch 24-28 x 90-140 mm (VEH AB), substructure-larch 50×80 mm Thermo ash 20-28 x 90-140 mm (VEH AB), substructure-larch 50×80 mm Accoya 20-28 x 90-140 mm, substructure-larch 50×80 mm

In order to avoid longitudinal displacement of the planks, each plank must be fastened with at least 3 fastening points (over 3 substructures) when using GleitFix®. If this is not possible, e.g. with short planks, each plank must be fastened with an additional screw from the side or from above.

TeFix®

HFA inspected in combination with KompeFix®, larch, thermo ash and Accoya

TeFix®

Larch 24- 28×90 -140 mm (VEH AB), substructure-larch 50×80 mm Thermo ash 20- 28×90 -140 mm (VEH AB), substructure-larch 50×80 mm Accoya 20- 28×90 -140 mm, substructure-larch 50×80 mm

TeFix® in combination with KompeFix®: Larch $24-28 \times 90-140$ mm (VEH AB), substructure-larch 50×80 mm Thermo ash $20-28 \times 90-140$ mm (VEH AB), substructure-larch 50×80 mm Accoya $20-28 \times 90-140$ mm, substructure-larch 50×80 mm

KompeFix® II KF

HFA inspected in combination with TeFix®

Alu-TeFix®

HFA inspected in combination with TefaFix® and larch

Larch 24-28 x 90-140 mm (VEH AB), substructure TefaFix

TefaFix®

HFA inspected in combination with Alu-TeFix®, TefaFlex® and TefaBind®

TefaFlex®

HFA inspected in combination with Alu-TeFix® and TefaFix®

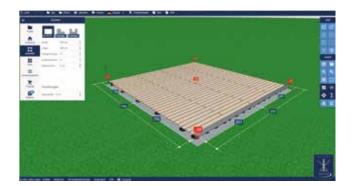
TefaBind®

HFA inspected in combination with TefaFix®

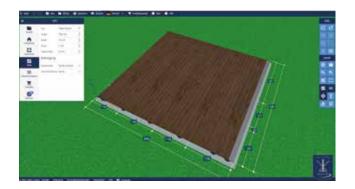
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New features of Terrace Planner 2.0

Freely selectable laying pattern

Position management - several projects
can be created

Fixing recommendation

3D Planning Software

new terrace planning software, which interacts with the SIHGA® webshop 3 basic forms, but also free forms constructible angular and round recesses possible

Unique Possibilities

individual height input of the substrate possible

the adjustable feet and adapter are automatically calculated

terrace surface inclinable edge definition: drainage grating

edge definition: drainage grating, cover plate or open edge

Data Base

29 types of terrace covering can be chosen (free choice of dimension)

6 different substructure types (free choice of dimension)

all products including accessories

continuous adaption to customer requirements

Visualisation

Upload your photo and place the terrace in front of it or use an existing photo in the software.

Output

quantities of wood, substructure, fasteners, incl. schematic laying plans

SIHGA® TIP:

Log in at www.sihga.com - immediately plan your project and order the necessary components in the webshop.

www.sihga.com System Catalogue 67





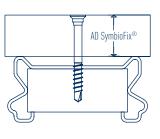
SIHGA® Feature

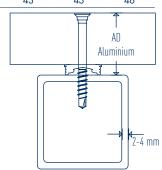
YOUR benefit

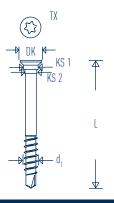
attaches selected types of wood to aluminium profiles	for attaching on to aluminium profiles with up to < 4 mm wall thickness
extra-long drill bit	attaches without predrilling and substructure
made of hardened, stainless steel	non-corrosive attachment and is extremely breakproof
Multi-stage head with a small head diameter 8,5 mm	noble appearance, noncutting screwed connection
including SIHGAFIX® non-corrosive, system pin and installation instructions	time-saving, practical, precise, including all accessories, SIHGAFIX® rustproof prevents extraneous rust and also screws into deep grooves
quantity determination	SIHGA® will do the calculation for you

SIHGA®		Dimension	•	oioFix® nent part		inium ent part
montag	epack	Alu-BohrFix® MB	from	to	from	to
Art. No.	PU	d₁ x L	[mm]	[mm]	[mm]	[mm]
26006	200	5,5 x 46	21	27	28	33
26016	200	5,5 x 51	27	34	33	38
26026	200	5,5 x 61	36	43	43	48

Dimensions [mm]						
Alu-BohrFix® MB						
d ₁	TX	DK	KS 1	KS 1		
5,5	25	8,5	5,8	4,7		













SIHGA® TIP:

To extend the life of timber constructions, we recommend using KompeFix® and noting the design recommendations











SIHGA® Feature

YOUR Benefit

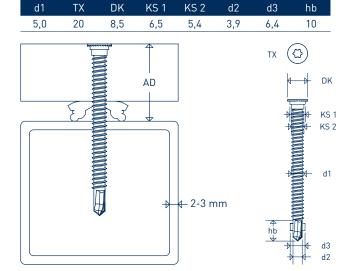
Alu-TeFix® in A2 fastens wood on aluminium (except SymbioFix® SFT) 2-3 mm without predrilling	prevents the formation of cracks or splitting in almost all hardwood and thermo-wood; saves working time
Alu-TeFix® made of hardened steel fastens wood on TefaFix® T/F without predrilling and countersinking	as TefaFix® absorbs the axial movement caused by swelling and shrinking of the wood, there is no danger of breakage
SIHGA® drill wings with special shape	pre-drills the boards at 6 mm and prevents lifting of the board while screwing; drilling wings break off when penetrating into the aluminium
SIHGA® further-developed multi-stage head	no displacement or chipping of the wood due to an extra thin head and saw tooth corrugation
in combination with KompeFix® II KF on conventional aluminium and in combination with TefaFlex® T/F on TefaFix® T/F the perfect solution	increases the lifetime of the wood and the screw
including SIHGAFIX® stainless steel, Systemstift® and installation instructions	time-saving, practical, precise; all accessories are included
quantity calculation	www.sihga.com/Online Calculation
HFA inspected in combination with TefaFix® and larch	for details please see page 65
·	

SIHGA® montagepack		Dimension	Add-on Part up to	CI	Substructure		
		Alu-TeFix®	AD	Tensile Force F ₁ [kN]		Shear Force F ₂ [kN]	TefaFix®T/F
Art. Nr.	PU	d1 x L	[mm]	Head	Thread	Alu-Wood	
54016	200	5,0 x 51	33	1,96	1,30	2,95	yes
54026	200	5,0 x 61	43	1,96	1,30	3,22	yes

SIHGA®		A®	Dimension	Add-on Part up to	Characteristic Values*			Substructure	
montagepack		epack	Alu-TeFix® A2	AD	Tensile	Force F ₁ [kN]	Shear Force F ₂ [kN]	TefaFix®T/F	Alu 2-3 mm
	Art. Nr.	PU	d1 x L	[mm]	Head	Thread	Alu-Wood		
	54066	200	5,0 x 51	33	1,96	0,85	1,40	yes	yes
	54076	200	5,0 x 61	43	1,96	0,85	1,40	yes	yes

^{*} characteristic values for dimensioning according to EC 5 and for strength class ρk 490 kg/m³ (Larch)

Dimensions [mm] Alu-TeFix®





When used in combination with woods that contain a lot of tannins (e. g. cumaru, oak, robinia, garapa, ...) we recommend Alu-TeFix® in A2.







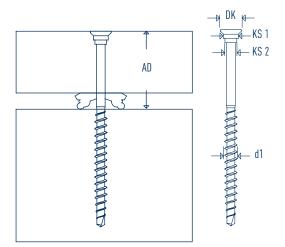




YOUR Benefit SIHGA® Feature fastens all types of wood, even when exposed to special drill bit prevents the substructure from salt and chlorine splitting drill bit with special shape prevents cracks in the wood made from stainless steel A4 fastens without rusting, also in acidic woods and when exposed to salt and chlorine material highly resistant to corrosion optimally suited for use close to the pool surround multi-stage head with small head diameter of 8.5 elegant look, non-cutting screwing including SIHGAFIX® stainless steel, Systemstift® time-saving, practical, precise, all accessories and installation instructions enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also enables screwing into deep grooves www.sihga.com/Online Calculation Terrace calculation of quantity

SIHGA®		Dimension	Installation Part
montagepack		L-BohrFix® MB A4	AD
Art. No.	PU	d1 x L	[mm]
37766	200	5,5 x 60	24
37776	200	5,5 x 70	28
37786	200	5,5 x 80	32





Dimension [mm] L-BohrFix® MB A4 DK KS 1 KS2 TX

5,8

4,7

8,5

SIHGA® TIP:

To extend the life of timber constructions, we recommend using KompeFix® II KF and noting the design recommendations (page 62 - 63).

d1

5,5

25





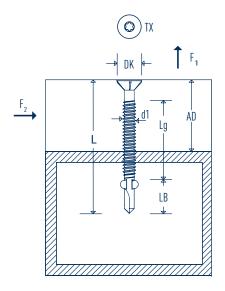
SIHGA® Feature

YOUR Benefit

fastens wood to steel without pre-drilling	simply screw through up to 5 mm thick steel, up to quality S355, in one working step
drill bit with special shape and thread lock flanks	fastens woods up to 90 mm to steel in one step
made from hardened stainless steel	rust-free fastening, is extremely break-proof
including SIHGAFIX® stainless steel, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed, SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves
design values	www.sihga.com/Online Calculation Terrace

SIHGA®		Dimension	Installation Part	Thread	Drilling Capacity	Recommen	ded Loads
montag	epack	S-BohrFix® SBF	AD	Lg	Steel	Tensile Force F ₁	Shear Force F ₂
Art. No.	PU	d1 x L	[mm]	[mm]	[mm]	[kN]	[kN]
31236	100	4,8 x 38	20	22	2,2	0,45	0,64
31246	100	5,5 x 45	25	26	4,0	0,61	0,64
31256	100	5,5 x 50	30	32	4,0	0,61	0,84
31266	100	6,3 x 60	35	31	5,0	0,72	0,84
31276	100	6,3 x 70	45	41	5,0	0,72	0,84
31286	100	6,3 x 85	60	46	5,0	0,72	0,84
31296	100	6,3 x 110	85	46	5,0	0,72	0,84

Due to the many different metal qualities, the drilling capacity must be determined on site by trial screwing.



Dimension [mm]

S-BohrFix® SBF

d1	TX	DK	LB
4,8	25	9,5	13,0
5,5	30	11,0	15,0
6,3	30	12,0	16,0



SIHGA® TIP:

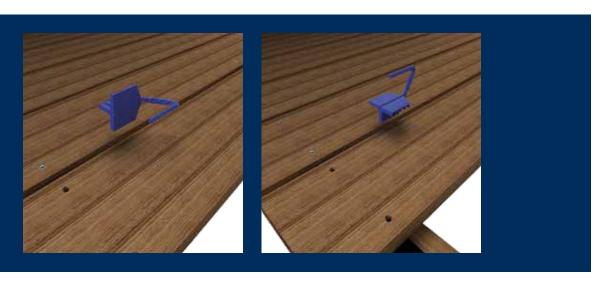
Due to the swell and shrinkage behaviour of wood, only substructure timber should be fastened to steel, and then the surface timber on top.





SIHGA® Feature **YOUR Benefit** universal joint spacer for terraces joint widths of either 5, 6, 7 or 8 mm can be set quickly made from SIHGAMID®, the fibre-glass reinforced extremely heat-, frost- and UV-resistant plastic originating from space research because of the special geometry the FugiFix® FF cannot fall into the joint and can easily be removed again

SIHGA®		SIHGA® Dimension	
montag	epack	FugiFix®	
Art. No.	PU	Туре	[mm]
34966	5	FF	5, 6, 7, 8

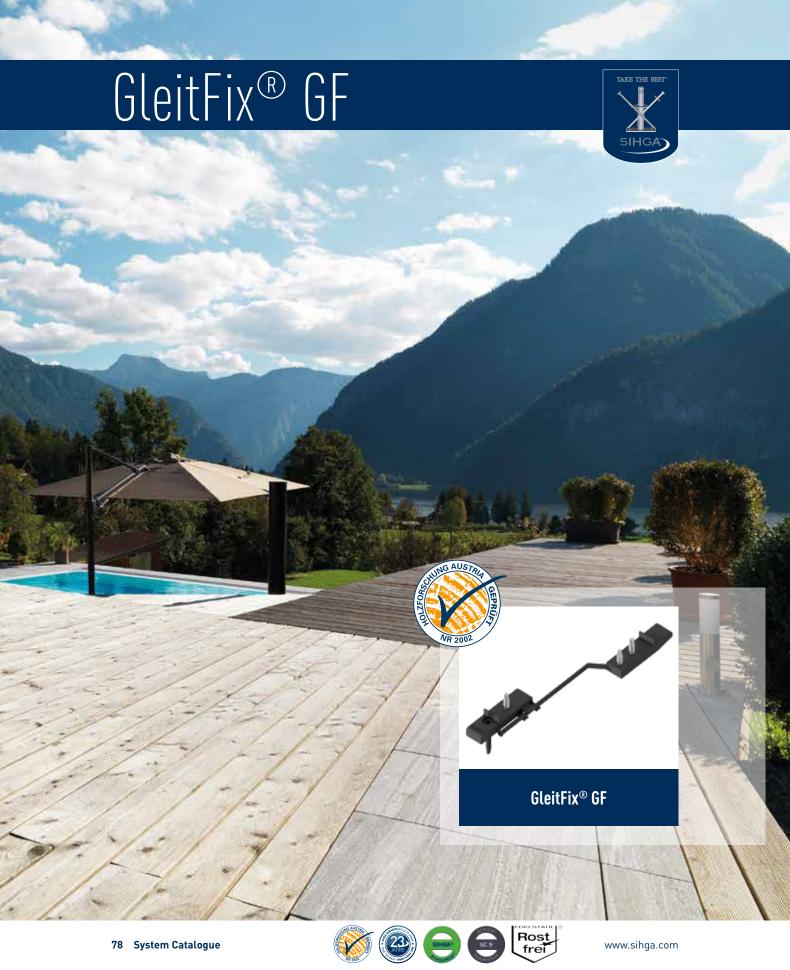




SIHGA® TIP:

To extend the life of timber constructions, we recommend using KompeFix® II KF and noting the design recommendations (page 62 - 63).











SIHGA® Feature **YOUR Benefit** fastens planks invisibly screwed; developed, elegant look and long-lasting fastening patented and made in Austria timber is screwed from below, this results in a planks remain undamaged on all visible surfaces longer lifespan and prevents rot, as well as direct weathering a product for almost every type of wood, reduces very large range of applications storage costs special compensation system compensates for the reduces the crack and break behaviour of the natural swelling and shrinkage of the planks timber during these natural processes only one system for plank widths suitable for all plank widths from 90 to 150 mm only one system for timber and aluminium tested stainless steel system screws with drill bit substructure; avoids hairline cracks on the top side enclosed of the plank made from SIHGAMID®, the fibre-glass reinforced extremely heat-, frost- and UV-resistant plastic originating from space research optionally also with tested stainless steel system stainless steel A4 BohrFix® screws for increased screws with drill bit in A4 (GleitFix® GF CS) risk of corrosion when exposed to salt and chlorine optimised fastening of varying plank thicknesses selection of three screw lengths from 19 mm suitable for every developer, FugiFix® is the ideal variable adjustment of the visible joint (0 - 15 mm) assistant here (page 74) HFA inspected in combination with larch, thermo for details please see page 65 ash and Accoya





SIHGA® TIP:

As substructure we recommend using TefaFix® T and noting the design recommendations (page 62 -63).









SIHGA® Feature

YOUR Benefit

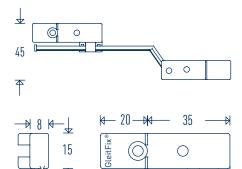
connector height with 8 mm for optimal ventilation ensures optimum constructive wood protection;

prevents accumulations of water between the plank and substructure

with joint spacing ≥8 mm includes SIHGAFIX® stainless steel, from hardened individual planks can be disassembled or replaced

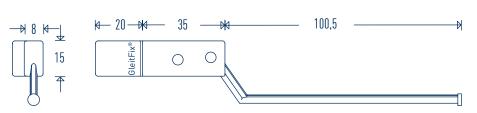
stainless steel BohrFix® FB with drill bit and installation instructions

no rust from external sources, screws do not shear or break; time-saving, practical, precise, all accessories are enclosed

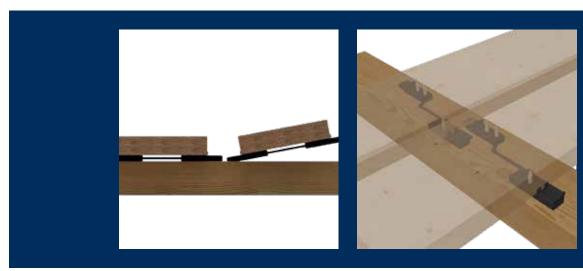


SIHGA®		Dimension	Plank Thickness	Average	
objekt	oack®	GleitFix® GF	mind.	Quantity / m ^{2*}	
Art. No.	PU	Туре	[mm]	Pieces	
34419	150	GF 17	19	16	
34449	150	GF 22	24	16	
34479	150	GF 28	30	16	
34519	150	GF 17 CS	19	16	
34549	150	GF 22 CS	24	16	
34579	150	GF 28 CS	30	16	

*assuming: Axial distance substructure = 0.5 m and plank width = 12 cm calculation of quantity = m^2 : distance substructure [m]: [width terrace plank + joint [m]]



BohrFix® FB Ø 4,2 x 17/22/28 $\alpha nnnnn$





For fastening start and end planks we recommend GleitFix® AE.







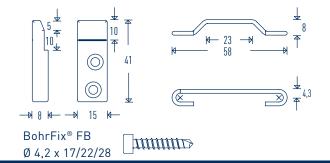


GleitFix® AE

SIHGA® Feature

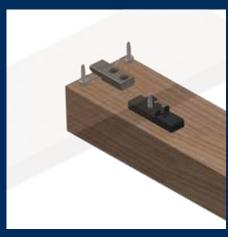
YOUR Benefit

screw-fastening of start and end planks invisible	elegant look and long-lasting fastening
planks remain undamaged on all visible surfaces	timber is screwed from below, this results in a longer lifespan and prevents rot, as well as direct weathering
special compensation system compensates for the natural swelling and shrinkage of the planks	reduces the crack and break behaviour of the timber during these natural processes
optionally also with tested stainless steel system screws with drill bit in A4 (GleitFix® AE CS)	stainless steel A4 BohrFix® FB screws for increased risk of corrosion when exposed to salt and chlorine
includes SIHGAFIX® stainless steel, from hardened stainless steel BohrFix® FB with drill bit and installation instructions	no rust from external sources, screws do not shear or break; time-saving, practical, precise, all accessories are enclosed



SIHGA®		Dimension	Plank Thickness
montagepack		GleitFix® AE	min.
Art. No.	PU	Туре	[mm]
34626	24	AE 17	19
34656	24	AE 22	24
34686	24	AE 28	30
34726	24	AE 17 CS	19
34756	24	AE 22 CS	24
34786	24	AE 28 CS	30







GleitFix® AE is also compatible with SenoFix® FT*. * Available from specialist timber dealers









JustiFix® JV

SIHGA® Feature	YOUR Benefit
the fleece under the terrace	hinders plant growth and is water-permeable
1.6 x 10 metre area	16 m² easy to lay
monitored production from polypropylene, with a special recipe	remains permanently dimensionally stable, is heat-, frost- and UV-resistant

SIHG	A®	Dimension	Grammage	Dimension	
montag	epack	JustiFix® JV		Width x Length	Area
Art. No.	PU	Туре	[g/m²]	[m]	[m²]
34956	1	J۷	50	1,6 x 10	16





JustiFix® J

SIHGA® Feature	YOUR Benefit
waterproof space between substructure and foundation	as a result of this distance, the substructure remains dry and the terrace is ventilated
manufactured from high quality, black EPDM special rubber	remains permanently dimensionally stable, is heat-, frost- and UV-resistant
made in Austria	local quality and added-value
minimises vibrations	increases walking comfort on the terrace
is just placed down, three material thicknesses to choose from	time-saving, no installation work, can be stacked as desired
including Systemstift® and installation instructions	is time-saving and enclosed for practicality

SIHGA®		Dimension	Dimension
montag	epack	JustiFix® J	LxBxH
Art. No.	PU	Туре	[mm]
41206	90	J 3H	80 x 40 x 3
41216	60	J 5H	80 x 40 x 5
41226	30	J 10H	80 x 40 x 10



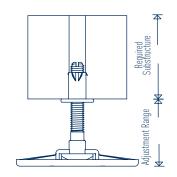




SIHGA® Feature **YOUR Benefit**

height-adjustable distance from 25 to 80 mm between substructure (with the exception of TefaFix® T) and foundation	this adjustable foot saves up to 50 % working time compared to individual solutions, the substructure remains dry and the terrace breathes
developed, patented and made in Austria	local quality, experience from more than 14 years of terrace construction included
only for solid foundations, paving, concrete, (not on insulating materials or flat roof insulation)	versatile, only three models for the entire range
articulated mounting of the base plate	compensates for floor unevenness
minimises vibrations	increases walking comfort on the terrace
load capacity per piece 1.20 kN	quantity calculation: approx. 4 units/m²
slot pattern in the header and nuts in the footer	easy height adjustment from above with screwdriver or with open-end spanner SW 10 from below

SIHGA®		Dimension	Adjustment Range		Dimensions/ Base plate		Required Substructure
montag	epack	JustiFix® II JM	[mı	m]	[mm]		[mm]
Art. No.	PU	Туре	from	to	Length	Width	min.
40846	40	JM 40	25	40	100	74	25
40866	40	JM 60	25	60	100	74	45
40886	40	JM 80	25	80	100	74	65







Drill substructure with \emptyset 10 mm. Note design recommendations (page 62 - 63).





SIHGA® Feature	YOUR Benefit
height-adjustable distance between substructure made from wood and any foundation	this adjustable foot saves up to 50 % working time compared to individual solutions, the substructure remains dry and the terrace breathes
made in Austria	top European quality and added-value
upper section for wood substructure	versatile, the wood substructure is simply fastened to the side of the upper section
30 to 50 mm height adjustment	only ONE model for the entire range
integrated level equaliser	evens out slopes of up to 3 %
monitored production from polypropylene, with a special recipe	remains permanently dimensionally stable, is heat-, frost- and UV-resistant
base plate with diameter 210 mm and rounded edge	large supporting surface, also for unpaved subsoil, rounded standing areas to protect the underlying films
load capacity per piece 6.0 kN	quantity calculation: approx. 4 units/m²
includes installation instructions	for professional and practical work without lost time

A®	Dimension	Adjustment Range		Support Surface
epack	JustiFix® JK	from	to	Diameter
PU	Туре	[mm]		[mm]
5	50 H	30	50	210
	epack PU	epack JustiFix® JK PU Type	epack JustiFix® JK from PU Type [mr	epack JustiFix® JK from to PU Type [mm]







For higher adjustment ranges we recommend JustiFix® II JK H.







SIHGA® Feature	YOUR Benefit
height-adjustable distance between substructure and any foundation	this adjustable foot saves up to 70 % working time compared to individual solutions, the substructure remains dry and the terrace breathes
upper section for wood substructure; integrated level equaliser	versatile in application, the wood substructure is simply fastened to the side of the upper section, evens out slopes of up to 3 %, simply read off from table
50 to 545 mm height adjustment	four basic models for the individual application, can be varied with JustiFix® Adapter JA 70
made in Austria	top European quality and added-value
monitored production from polypropylene, with a special recipe	remains permanently dimensionally stable, is heat-, frost- and UV-resistant
base plate with diameter 210 mm and rounded edge	large supporting surface, also for unpaved subsoil, rounded standing areas to protect the underlying films
load capacity per piece max. 6.0 kN	on solid and unpaved subsoil
includes installation instructions	for professional and practical work without lost time

SIHG	A®	Dimension	Adjustment Range		Support Surface
montag	epack	JustiFix® II JK	from to		Diameter
Art. No.	PU	Туре	[mm]		[mm]
33366	5	90 H	50	90	210
33106	5	125 H	50	125	210
33136	4	160 H	120	160	210



JustiFix® II JK 160 H





SIHGA® TIP:

Note design recommendations (page 62 - 63). On flat roofs in combination with JustiFix $^{\!\circ}$ K.





JustiFix® II JK

SIHGA® Feature **YOUR Benefit** height-adjustable distance between substructure this adjustable foot saves up to 70 % working time and any foundation compared to individual solutions, the substructure remains dry and the terrace breathes upper section for TefaFix® T substructure and this height-adjustable foot simply latches onto TefaFix® T and SymbioFix® SFT is therefore SymbioFix® SFT; ntegrated level equaliser absolutely installation-stable and evens out slopes of up to 3 % four basic models for the individual application, can 30 to 545 mm height adjustment be varied with JustiFix® Adapter JA 70 (page 91) made in Austria top European quality and added-value monitored production from polypropylene, with a remains permanently dimensionally stable,

is heat-, frost- and UV-resistant

	SIHGA®		Dimension	Adjustment Range		Support Surface	
montagepack		epack	JustiFix® II JK	from to		Diameter	
	Art. No.	PU	Туре	[mm]		[mm]	
	33436	5	50	30	50	210	
	33446	5	90	50	90	210	
	33116	5	125	50	125	210	
	33146	4	160	120	160	210	





SIHGA® TIP:

special recipe

Note design recommendations (page 62 - 63).





SIHGA® Feature	YOUR Benefit			
base plate with diameter 210 mm and rounded edge	large supporting surface, also for soft subsoil, rounded standing areas to protect the underlying films			
load capacity per piece max. 6.0 kN	on solid and unpaved subsoil; 2 per m², for example with 1100 mm distance from the terrace footing, are sufficient			
includes installation instructions	for professional and practical work without lost time			







Note design recommendations (page 62 - 63).





JustiFix® II JK S

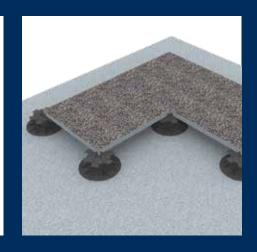
SIHGA® Feature

YOUR Benefit

height-adjustable distance between substructure and any foundation	this adjustable foot saves up to 70 % working time compared to individual solutions
upper section for slabs with joint distance 4 mm and spacer ribs with integrated predetermined breaking point	for all panel formats, even cornering profiles and edge connectors are resolved easily and time-efficiently
30 to 545 mm height adjustment	four basic models for the individual application, can be varied with JustiFix® Adapter JA 70
made in Austria	top European quality and added-value
monitored production from polypropylene, with a special recipe	remains permanently dimensionally stable, is heat-, frost-and UV-resistant
base plate with diameter 210 mm and rounded edge	large supporting surface, also for soft subsoil, rounded standing areas to protect the underlying films
load capacity per piece max. 6.0 kN	on solid and unpaved subsoil; 4 per m², sufficient for 50 cm plate size, for example
includes installation instructions	for professional and practical work without lost time

SIHG	A®	Dimension	Adjustment Range		Support Surface	
montagepack		JustiFix® II JK	from to		Diameter	
Art. No.	PU	Туре	[mm]		[mm]	
33346	5	50 S	30	50	210	
33426	5	90 S	50 90		210	
33126	5	125 S	50	125	210	
33156	4	160 S	120	160	210	







JustiFix® Adapter JA

SIHGA® Feature

YOUR Benefit

height expansion for JustiFix® II JK by 70 mm respectively

the optimal addition to the adjustable foot, JustiFix® Adapter JA is simply inserted; this increases the height adjustment between substructure and

	foundation by up to 545 mm			
made in Austria	top European quality and added-value			
one model, can be stacked as desired	can be used for all JustiFix® II JK			
monitored production from polypropylene, with a special recipe	remains permanently dimensionally stable, is heat-, frost- and UV-resistant			

Dimension		Adapter	Adjustment Range	
JustiFix® II JK		JA 70	[mm]	
Туре		Quantity	from	to
JK 125 H/S	+	1 x JA 70	120	195
JK 125 H/S	+	2 x JA 70	190	265
JK 125 H/S	+	3 x JA 70	260	335
JK 125 H/S	+	4 x JA 70	330	405
JK 125 H/S	+	5 x JA 70	380	475
JK 125 H/S	+	6 x JA 70	470	545
	JustiFix® II JK Type JK 125 H/S JK 125 H/S JK 125 H/S JK 125 H/S JK 125 H/S	JustiFix® II JK Type JK 125 H/S + JK 125 H/S + JK 125 H/S + JK 125 H/S + JK 125 H/S +	JustiFix® II JK Type Quantity JK 125 H/S + 1 x JA 70 JK 125 H/S + 2 x JA 70 JK 125 H/S + 3 x JA 70 JK 125 H/S + 4 x JA 70 JK 125 H/S + 5 x JA 70	Type Quantity from JK 125 H/S + 1 x JA 70 120 JK 125 H/S + 2 x JA 70 190 JK 125 H/S + 3 x JA 70 260 JK 125 H/S + 4 x JA 70 330 JK 125 H/S + 5 x JA 70 380







SIHGA® TIP:

Note design recommendations (page 62 - 63)







JustiFix® K

SIHGA® Feature

YOUR Benefit

cork interlayer as protection for flat roof foils	protects against mechanical damage to the sealing level
does not contain any plasticisers	prevents a plasticizer migration between flat roof foil and adjustable feet
dimensions 250 x 250 x 2 mm	optimal for adjustment feet JustiFix® (II) JK
made of chemically neutral material	cork is resistant to moisture, does not rot and is resistant against most acids
cork as a flexible material	inhibits impact sound, noise-insulating is non-slip and pressure-stable
quantity calculation per m ²	1 : distance substructure in m : distance of the terrace feet

SIHGA®		Dimension	
montagepack		LxBxH	
Art. No.	PU	[mm]	
41256	20	250 x 250 x 2	





SIHGA® TIP:

Plasticizer migration may occur between EPDM films and JustiFix® JK, so JustiFix® K should be used.



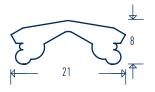
KompeFix® II KF

SIHGA® Feature

YOUR Benefit

universal, constructive wood protection for terraces with height 8 mm and width 21 mm	creates distance between the woods; thereby allowing them to breathe and increasing their lifespan
developed, patented and made in Austria	local quality, experience from more than 14 years of terrace construction included
the 4.5 metre long roll is simply rolled out	fast and easy, can be fixed as desired (screwable) and cut to length
helps to seal the screw	increases the service life of the construction
the pre-load effect integrated through the specific shape compensates for the swelling and shrinkage of the timber	enhances walking comfort on the terrace
monitored production from polyvinyl chloride, with a special recipe	remains permanently dimensionally stable, is heat-, frost- and UV-resistant
quantity calculation per m²	1 : distance substructure [m] : 4.5
includes installation instructions	is time-saving and enclosed for practicality
HFA inspected in combination with TeFix®	for details please see page 65

SIHGA®		IGA®	Dimension			
montagepack		gepack	KompeFix [®]	[mm]		
A	Art. No.	PU	Туре	Width	Height	Length
	41006	8 x 4,5 m	II KF	21	8	4500







page 65















SIHGA® Feature	YOUR Benefit
fastens wood to wood without pre-drilling and without countersinking	prevents crack formation or splitting of the timbers, even board materials, saves work time, additional pre-drilling extends the life of the wood
also attaches coverings made out of hard and thermo-wood	creates a perfect look, with these woods additional pre-drilling is recommended
multi-stage head with small head diameter	high constructive wood protection and refined surface as a result of the plane head
special thread angle with sharp thread edges	high extraction value
SIHGA® point with special shape	guarantees fast setting of screws without splitting
SIHGA® ribs on shaft and slip coating	light, fast rotation and optimum fit in the wood are guaranteed
made from hardened stainless steel	rust-free fastening, extremely break-proof
also available with black (SC 9 coating) and antique look (SC 11 coating)	optimum on dark materials, or can be used for larch, Douglas fir and Bangkirai
including SIHGAFIX® stainless steel, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves





SIHGA® TIP:

In case of applications in the pool area and with timbers with a high tannin content, we recommend L-BohrFix® MB A4.









SIHGA® Feature

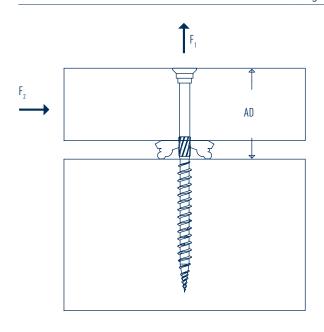
quantity calculation

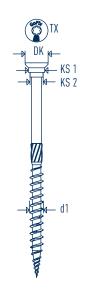
including SIHGAFIX® stainless steel, Systemstift® and installation instructions

YOUR Benefit

www.sihga.com / Online Calculation Terrace

time-saving, practical, precise, all accessories enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves





Dimension [mm] L-GoFix® MS d1 DK KS 1 KS 2 5,0 25 8,5 6,0 4,8 6,0 30 11,5 7,2 5,8

SIHGA®		Dimension	Installation Part	Characteristic Values**			
montage	epack	L-GoFix® MS	AD	Tensile Fo	rce F ₁ [kN]	Shear Fo	rce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
24316	200	5,0 x 45*	18	0,76	1,82	0,89	1,65
24326	200	5,0 x 50*°	20	0,95	2,14	0,99	1,78
24336	200	5,0 x 60*°	24	0,95	2,53	1,19	1,88
24346	200	5,0 x 70*	28	0,95	2,93	1,39	1,98
24356	200	5,0 x 80*	32	0,95	3,72	1,59	2,18
24366	200	5,0 x 90*	36	0,95	4,12	1,79	2,27
24376	200	5,0 x 100*	40	0,95	4,51	1,97	2,37
24406	100	6,0 x 70	28	1,64	3,31	1,58	2,51
24416	100	6,0 x 80	32	1,64	4,21	1,80	2,73
24426	100	6,0 x 90	36	1,64	4,66	2,03	2,85
24436	100	6,0 x 100	40	1,64	5,10	2,25	2,96
24446	100	6,0 x 120	50	1,64	5,10	2,45	2,96
24456	100	6,0 x 140	70	1,64	6,00	2,69	3,18
24466	100	6,0 x 160	90	1,64	6,00	2,69	3,18

Subject to technical modifications and errors. Status of approval 12.2022

- * also available with SC 9 coating
- ** characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ [Larch]



SIHGA® TIP:

For surface-flush rotation, fast and secure, we recommend TerrassenFix® TTB depth limiter.











L-GoFix® MS A2

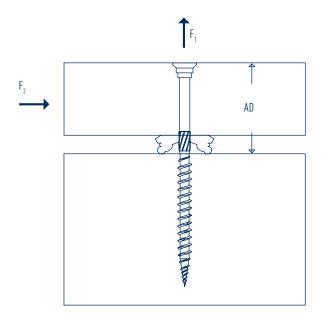
SIHGA® Feature YOUR Benefit

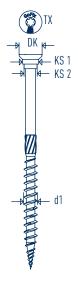
Made from A2 stainless steel	stands out thanks to its good corrosion resistance and is best used in moderate, corrosive environments
multi-stage head with small head diameter	high constructive wood protection and refined surface as a result of the plane head
special thread angle with sharp thread edges	high extraction value
SIHGA® point with special shape	guarantees fast setting of screws without splitting
SIHGA® ribs on shaft and slip coating	light, fast rotation and optimum fit in the wood are guaranteed
including SIHGAFIX® stainless steel, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves

Because of the material properties it is strongly advised to generally pre-drill the add-on part (screw diameter + 0.5 -1 mm). The substructure, due to the different bulk densities and moisture, also in conifers, should in most cases be pre-drilled over the entire thread length with \emptyset 3 mm. If in doubt, we recommend carrying out pretrials









Dimension [mm] L-GoFix® MS A2 KS 1 KS 2 DK 20 6,9 5,2 4,2 5,0 25 8,5 6,0 4,8

SIHG	A®	Dimension	Installation Part		Characteris	stic Values**	
montage	epack	L-GoFix® MS A2	AD	Tensile Fo	rce F ₁ [kN]	Shear Fo	rce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
22226	400	4,5 x 40	16	0,48	1,55	0,74	1,15
22236	400	4,5 x 45	18	0,48	1,77	0,83	1,21
22246	400	4,5 x 50	20	0,61	1,99	0,92	1,26
22266	400	4,5 x 60	24	0,61	2,36	1,07	1,35
22276	300	4,5 x 70	28	0,61	2,72	1,22	1,45
22316	200	5,0 x 45	18	0,76	1,82	0,89	1,36
22326	200	5,0 x 50	20	0,95	2,14	0,99	1,44
22336	200	5,0 x 60	24	0,95	2,53	1,18	1,54
22346	200	5,0 x 70	28	0,95	2,93	1,33	1,64
22356	200	5,0 x 80	32	0,95	3,72	1,57	1,84
22366	200	5,0 x 90	36	0,95	4,12	1,67	1,94
22376	200	5,0 x 100	40	0,95	4,30	1,72	1,98

Subject to technical modifications and errors. Status of approval 12.2022



SIHGA® TIP:

When using coatings such as oils, glazes and pre-greying, it is essential to consult the coating manufacturer. As a rule, the manufacturer specifies the minimum material quality of the binding agent. If the manufacturer is not known, we recommend material quality A4 (L-BohrFix® MB A4).





^{**} characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ (Larch)



102 System Catalogue www.sihga.com

Screw breakage in the terrace - what now?

Imagine, you are just installing the second-to-last decking board on a 20 m² large teak terrace – the final stretch – the cordless screwdriver is showing no sign of getting tired and a well-deserved relaxing evening awaits... or does it?

Suddenly a screw breaks off – after around 600 have been perfectly inserted and screwed in place. A nightmare!

With the broken screw part in your hands, you note that the thread of the screw is lodged in the aluminium sub-structure – broken off flush at its upper edge – no chance of removing the remainder of the screw with a tool such as pliers or the like.

You are now spoilt for choice:

Either you break your customer promise of delivering a perfect wooden terrace and add a new screw alongside the old drill hole in the decking board or you insert the new screw at an angle into the old drill hole.

In both cases, you are putting customer satisfaction at stake – risking both customer dissatisfaction and the loss of your own good reputation.

Or, you remove as many of the decking boards necessary in order to replace the damaged aluminium sub-structure rail.

No evening off in sight and a tiring, tedious and above all costly journey before you in your role as a terrace installer.

But now SIHGA® has found a solution:

Rest-X® – the elegant way of doing repairs

Scenarios like this are a thing of the past thanks to the SIHGA® Rest-X®!

SIHGA® is the first and only company to provide a tool which enables you to repair damage screws QUICKLY, PROFESSIONALLY AND COST-EFFECTIVELY.

The faulty screw is replaced, the decking board remains intact and the surface of the terrace looks just like new.

Based on survey results*, investment in a Rest-X[®] set will pay for itself in less than 2 years!



in left-hand rotation



3. Screw in the new screw

www.sihga.com System Catalogue 103

YOUR Benefit

with Rest-X®, it is possible to repair individual broken screws WITHOUT having to extensively dismantle the terrace

the new screw can be screwed STRAIGHT into the old drill hole

1 Rest-X® set can repair 100 damaged screws without the need for replacing any parts of the terrace decking

works with both wood and aluminium sub-structures

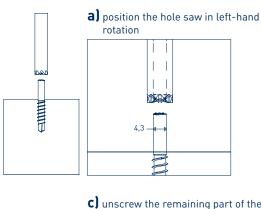
only one replacement screw is required for each defective screw when repairing wooden sub-structures

Rest-X $^{\circ}$ is suitable for stainless steel screws of Ø 5 mm and Ø 5.5 mm (by all manufacturers)

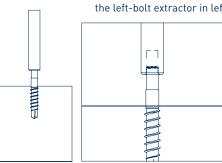
incl. SIHGAFIX®, hole saw, screw extractor and HSS drill

one set - countless applications

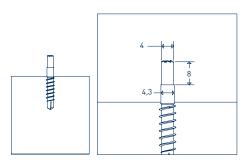
Best Practice for Substructure Made of Wood and Aluminium

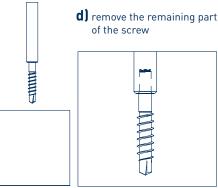






b) mill off the screw shaft min. 8 mm





SIHGA® Rest-X®

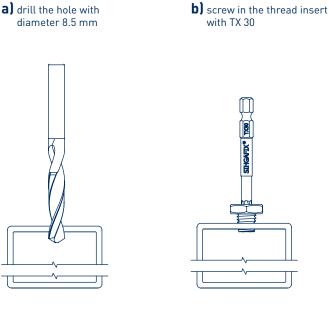
montag	epack	Hole Saw	Screw Extractor	HSS Drill	SIHGAFIX®
Art. No.	PU	Ø [mm]	Ø [mm]	Ø [mm]	
34802	1	8,5 / 4,0	7,5 / M 4,5 left	8,5	TX 25 and 30

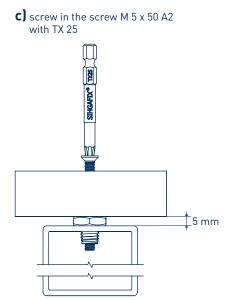
104 System Catalogue www.sihga.com

Further Procedure in Aluminium Substructure

YOUR Benefit

in the case of repairing aluminium sub-structures, a thread insert plus a replacement screw are required for each faulty screw (20 are included in one montagepack)





SIHGA® Rest-X® San-Set

montagepack		Thread insert	Drill
Art. No.	PU	Ø [mm]	Ø x L [mm]
34812	20	M 5	5 x 50

Is this even worth it?

- * Results of a survey of 1059 carpenters, joiners, dealers, gardeners and landscape designers from August 2020:
- investment in this tool pays for itself in less than 2 years
- an average of 2.2 cases of broken screws across terrace areas (during or after installation) per year
- on average 5 to 6 affected screws per case of damage
- every 7th case of damage on average involves the terrace being extensively dismantled
- average lifespan of Rest-X® is over 8 years (if Rest-X® is used for all cases of damage)



SIHGA® TIP:

Remove the screw in aluminium substructure, drill out the aluminium by using the HSS driller 8.5 mm and refix the board by using the Rest-X®-thread insert together with the screw.

www.sihga.com System Catalogue 105



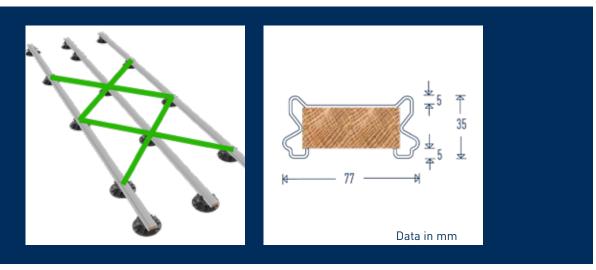


SIHGA® Feature

YOUR benefit

the substructure rails in terrace construction made from aluminium with thermo-wood core	saves 50 % of the time and the counter-batten construction, the thermo-wood core holds the fastening screws permanently, which aluminium alone cannot
for visible and invisible plank screw connections	visible planks Screwed connection with Alu-BohrFix® MB and non-visible attachment with DielenFix®, GleitFix® or SenoFix®
made, developed and patented in Austria	top European quality
easy handling as a result of length 1100 mm and low weight, endless connection	time-saving, low construction height, endlessly connectible without adapters, increases the lifespan of the terrace
optionally available with a length of 4400 mm	saves working time when laying the substructure
load transfer through aluminium rails	high load-bearing capacity and no substructure warping, support is required in the outer-edge area
simply click onto the JustiFix® II JK SF adjustable feet	the ideal combination, the transversal joint is also placed on it, JustiFix® II JK SF; this saves adjustable feet and delivers a further cost advantage
constructive wood protection integrated	SymbioFix® profile has a 5 mm distance from the top to the plank, this results in good ventilation and a long-lasting terrace
version also available in black (SC 9®)	the substructure is not visible in the joints

SIHG	A®	SymbioFix [®]		
objekt	pack	Type	Length	
Art.No.	Art.No. PU		[mm]	
32679	15	SFT 1100	1100	















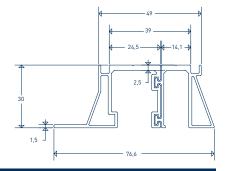


YOUR Benefit

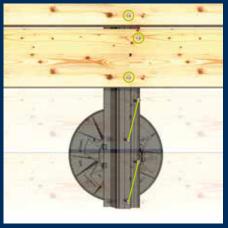
2-part system	with visible screw connection in offset arrangement, sliding effect also in the longitudinal direction of the substructure, screw breakage due to swelling and shrinking of the wood is a thing of the past
also available in SC 9 coated	continuous black joint optic
profile open at the bottom	prefabrication of the parts possible by screwing on the rear
lateral flange	additional fastening options
special inner geometry	many connections possible with TefaBind® connector
trapezoidal shape	perfect water drainage guaranteed
moveable	endlessly extendable in length
aluminium	durable, machinable with conventional tools and machines
TefaBind® connector	all, even angled connections possible
universally combinable	for use also optimally with SenoFix® FT* and GleitFix® GF
HFA inspected in combination with Alu-TeFix®, TefaFlex® T and TefaBind®	for details please see page 65

^{*} Available from specialist timber dealers

SIHGA®			TefaFix® T	
Package		Type	Surface	Length
Art. No.	PU			[mm]
52112	10	4400	bright	4400
52022 10		4400	SC 9	4400
SIH	GA®		TefaFix® T	
objekt	pack [®]	Type	Surface	Length
Art. No.	PU			[mm]
52023	15	1100 SC 9		1100









SIHGA® TIP:

For the application in combination with SenoFix $^{\circ}$ FT the TefaBind $^{\circ}$ connecting piece incl. screw connection for the longitudinal joint must be used.







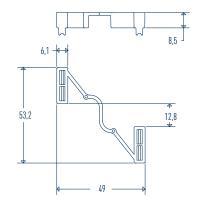


TefaFlex®T



SIHGA® Feature	YOUR Benefit		
special geometry	minimum contact area of the boards in case of visible screwing, allows bowling up of the planks stress-free		
takes up the axial displacement of the TefaFix® T effortlessly	screw breakage due to swelling and shrinkage is thus counteracted		
53 mm length	suitable for all plank widths		
8.5 mm height	final distance of the plank to the substructure according to the state of technology, optimum ventilation and drainage		
HFA inspected in combination with Alu-TeFix® and TefaFix® T	for details please see page 65		

SIH	GA®		TefaFlex® T	
monta	gepack	Length	Width	Height
Art. No.	PU	[mm]	[mm]	[mm]
52036	300	53,2	49	8,5









One piece of TefaFlex® T is required per plank joint.













^{*} Available from specialist timber dealers













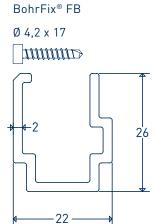




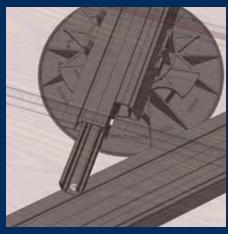
YOUR Benefit

TefaBind® connector	for endless joining of TefaFix® T			
SC 9 coated	continuous black joint optic			
profile open at the top	with the supplied BohrFix® FB 4.2 x 17 mm in stainless steel the TefaBind® can be easily fixed			
Aluminium	durable, with conventional tools and machines workable			
all-purpose	all longitudinal and transverse connections can be made with the TefaBind®			
including assembly instructions and 2 pcs. BohrFix® FB 4.2 x 17 mm per TefaBind®	time-saving, practical, precise, all accessories are included			
HFA inspected in combination with TefaFix® T	for details please see page 65			

SIHGA®			TefaBind®	
montagepack		Length	Width	Height
Art. No.	PU	[mm]	[mm]	[mm]
52056	25	250	22,0	26,0









SIHGA® TIP:

For the application of TefaFix® T in combination with SenoFix® FT* and SenoFix® II SX* the TefaBind® connector incl. screw connection for the longitudinal joint is mandatory.







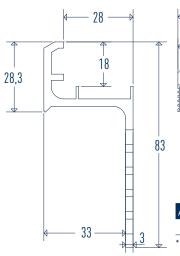


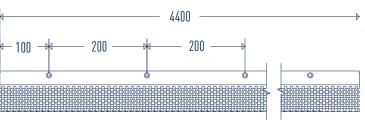




YOUR Benefit

special geometry	can be used as a ventilation element or substructure for terrace edge revetment
aluminium	workable with common tools and machines
pre-drilled	easy installation using TeFix®
optimum static solution	load transfer of the edge cover via the planks
profile height	or all plank thicknesses from 20 mm
profile interruptions	water drainage and ventilation guaranteed





SIHGA®				TerrassenFix® Air*			
Package		Length	th Width Height Perforation Front Perfora				
Art. No.	PU	[mm]	[mm]	[mm]	[mm]	[mm]	
52064	5	4400	36	83,0	Ø 5,0	Ø 6,0	

* all fixing screws are available separately







SIHGA® TIP:

To fix a wooden panel, we recommend the BohrFix $^{\circ}$ FB 4.2 x 17/22/28 mm in stainless steel screwed in from the back of the TerrassenFix® Air.





TeFix® NR 2002 TeFix® made of hardened stainless steel



Details on page 65









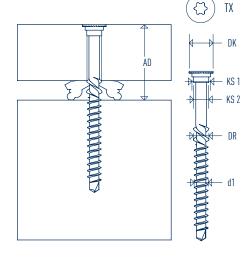
SIHGA® Feature **YOUR Benefit**

fastens wood to wood without pre-drilling and countersinking	prevents the formation of cracks or splitting in almost all hardwood and thermo-wood; saves working time
made of hardened stainless steel	non-corrosive attachment and is extremely break-proof
SIHGA® friction thread with special form	pre-drills the boards at 5 mm; the wood can thus swell and shrink
SIHGA® further-developed multi-stage head	no suppression or splitting of the wood due to extra thin head and saw tooth corrugation
the perfect solution in combination with KompeFix®	increases the life of the wood and the screw
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, all accessories are included
calculation of required quantity, please visit	www.sihga.com (average quantity = 33 pieces/m²)
HFA inspected in combination with KompeFix® II KF, larch, thermo ash and Accoya	for details please see page 65

SIHGA®		Dimension	Installation Part		Character	istic Values**	
monta	gepack	TeFix®	AD [max]	Tensile Fo	rce F ₁ [kN]	Shear For	ce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
54316	200	5,0 x 45*	18	1,65	1,43	1,58	2,75
54326	200	5,0 x 50*	24	1,65	1,66	1,70	2,81
54336	200	5,0 x 60*	27	1,65	2,18	1,94	2,94
54346	200	5,0 x 70*	30	1,65	2,71	2,18	3,07
54356	200	5,0 x 80*	34	1,65	3,16	2,46	3,18
54366	200	5,0 x 90*	37	1,65	3,69	2,61	3,31
54376	200	5,0 x 100*	40	1,65	4,21	2,75	3,45
54406	100	6,0 x 70	30	2,92	2,75	2,61	4,03
54416	100	6,0 x 80	34	2,92	3,22	2,91	4,15
54426	100	6,0 x 90	37	2,92	3,77	3,19	4,29
54436	100	6,0 x 100	40	2,92	4,32	3,44	4,42
54446	100	6,0 x 120	52	2,92	4,95	3,60	4,58

^{*} also available with SC 9 coating ** characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ (Larch)

Dimensions [mm]						
d1	TX	DK	KS 1	KS 2	DR	
5,0	20	8,5	6,5	5,4	5,2	
4 N	25	11 5	0.2	4.1	۷ 2	





SIHGA® TIP:

For use in the area of pool surroundings and to fasten wood with high tannin content (such as e.g. cumaru, oak, robinia, garapa) we recommend L-BohrFix® MB A4.











TerrassenFix® II TF





YOUR Benefit

universal constructive wood protection for terraces	creates distance between the woods*, thereby allowing them to breathe and increasing the lifespan
developed, patented and made in Austria	top European quality, experience from more than 14 years of terrace construction included
TerrassenFix® II TF with Ø 70 mm is only placed on the substructure	saves time, no installation work
joint setting for 4, 5, 6, 7, 8, 9 mm wide joints without residue in the joint	joint widths can be adjusted quickly as a result; time-saving, practical, precise, all accessories enclosed
including TerrassenFix®II rods TFS and installation instructions	the TerrassenFix® II rods TFS cannot fall into the joints
TerrassenFix® II rods TFS are removed entirely using a handle, can be reused after screw-connecting the planks	nothing blocks the planks during their swell and shrinkage behaviour
monitored production from polyethylene	remains permanently dimensionally stable, is heat-, frost- and UV-resistant
calculation of quantity per m ²	1: substructure distance [m]: width of terrace planks + joint [m]

SIHGA®		Dimension	Average
montagepack		TerrassenFix®	Quantity /m²
Art. No.	PU	Type	Stk.
40506	100	II TF	14

 $[\]ensuremath{^*}$ calculation takes place with the assumption "plank width 140 mm".







SIHGA® TIP:

The joint space should not be less than 7 mm or 6 % of the plank width.





TerrassenFix®

TerrassenFix® II Set TFL

SIHGA® Feature

YOUR Benefit

patented constructive wood protection as a set with L-GoFix $^{\odot}$ MS screws for terraces	the practical set for visible terrace plank fastening with very long lifespan
L-GoFix® MS made from hardened stainless steel	rust-free fastening, extremely break-proof
including SIHGAFIX® stainless steel, TerrassenFix® II rods TFS, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves
calculation of quantitiy	SIHGA® performs the calculation for you

SIHG	6A®	Dimension	Planks	Set - Screw	Sufficient
montag	epack	TerrassenFix® II	Thickness	L-GoFix® MS	for approx.
Art. No.	PU	Туре	[mm]	Ø x Length	[m²]
40526	100	TFL 60	20	5,0 x 60	7,5
40546	100	TFL 70	24	5,0 x 70	7,5
40566	100	TFL 80	28	5,0 x 80	7,5
40576	100	TFL 90	32	5,0 x 90	7,5







SIHGA® TIP:

The joint distance should not be less than 7 mm or 6 % of the plank width, note design recommendations.







TerrassenFix® Countersink BS

SIHGA® Feature

pre-drilling and counter sinking in one step	saves at least 50 % working time
developed, patented and made in Austria	local quality, experience from more than 14 years of terrace construction included
drill and counter sinker are made from hardened stainless steel	prevents corrosion/rust from external sources on the terrace, also in the case of any abrasion of the drill
integrated depth stop	gives a uniform finish to the sinking, prevents sink holes and thus damp patches
for SIHGA® stainless steel screws L-GoFix® MS, L-BohrFix® MB (A4) and Alu-BohrFix®	the precise match for these screws creates a uniform surface
stop ribs on the end	prevent ugly contact traces on the terrace surface
with a second change ring and re-closable system packaging	extends the life of the counter sinker, protects against damage
drill depth including sinker 25 mm	the geometry optimally transports the drill dust out

YOUR Benefit

SIHGA®		TerrassenFix®	Drill Hole	Drill Depth
minimont	tagepack	Countersink	Diameter	incl. sink
Art. No.	PU	Туре	[m	nm]
35052	1	BS 5	5,0	25
35062	1	BS 6	6,0	25





Observe drilling table (page 63), we recommend using the TerrassenFix® Template TFS.



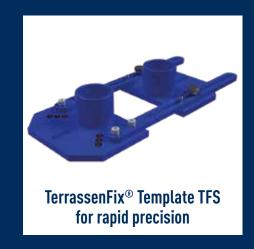
TerrassenFix® Template TFS

SIHGA® Feature

YOUR Benefit

pre-drilling and counter sinking of the terrace planks without measuring and marking	saves 50 $\%$ of working time and creates an attractive and uniformly screwed surface
developed, patented and made in Austria	local quality, experience from more than 14 years of terrace construction included
for terrace planks from 70 - 205 mm wide	universally usable in terrace construction
made entirely of anodised aluminium	for a long life of the template in everyday construction use
automatically suitable guide for TerrassenFix® Countersink BS	drilling is performed in a precise and consistent position each time
side wood distance adjustable via stops	15, 20, 25 mm side wood distances can be optionally selected with ease
constructive wood protection is considered	a distance of 50 mm is automatically added to the wood end-grain
inspection opening for previous screw connections	for rational, fast working
includes installation instructions	is time-saving and enclosed for practicality

SIHGA®		Dimension	Plank Width
montagepack		TerrassenFix® Template	min - max
Art. No.	PU	Туре	[mm]
34946	1	TFS	70 - 205







SIHGA® TIP:

Note design recommendations (page 62 - 63).



TerrassenFix® Depth Limiter TTB

SIHGA® Feature

YOUR Benefit

prevents screws penetrating too deeply into the terrace planks, they are all automatically screwed flush; saves lots of time and results in an attractive and uniform surface
prevents ugly contact traces on the terrace surface
no sink holes arise above the screw heads in the terrace planks here, in which water and dirt accumulate
can be used with every SIHGAFIX®
especially for use with SenoFix® FT*

^{*} Available from specialist timber dealers

	SIH	9A®	Type
	minimont	agepack	Depth Limiter
А	rt. No.	PU	Туре
3	34992	1	TTB





SIHGA® TIP:

Note design recommendations (page 62 - 63). TerrassenFix® depth limiter TTB with SIHGAFIX® TX 20, 77 mm perfect for laying with SenoFix® FT*.

TerrassenFix® Clamp III

SIHGA® Feature	YOUR Benefit
clamping width 260 - 780 mm	time-saving, practical, precise for terrace construction, from plank widths of 90 mm or can also be used universally;
material thickness of the front section only 4 mm	easy to use with all terrace joints and when working close to walls
wide clamp jaws	no pressure points on the plank edge
close and open the clamp with one handle or	the clamping together of the planks and the opening of the clamps are performed by turning the handle or
with additional universal drive, the further development by professionals for professionals	with drive TX 40, external hex SW 13, hexagon socket 6 mm for even faster handling
easy, quick adjustment and fine adjustment of the clamping width	quick adjustment from the front with a magnetic rod, fine adjustment using a rotating handle

SIHGA®		Type	Clamping Distance	
montagepack		TerrassenFix®	[mm]	
Art. No.	PU	Туре	from	to
35036	1	Clamp III	260	780





SIHGA® TIP:

The TerrassenFix $^{\circ}$ Clamp III is the ideal laying tool for floorboard coverings and the precondition for the assemby of SenoFix $^{\circ}$ II SX * .

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^{*} Available from specialist timber dealers

Joint Spacer Clamp FAZ for TerrassenFix® Clamp III

SIHGA® Feature

YOUR Benefit

accessories for TerrassenFix® Clamp III	saves lots of working time and results in uniform joints
joint distance either 6, 7, 8, 10 mm	just set desired width on the TerrassenFix® Clamp III, the conical shape ensures easy removal after use
wide supporting surface	prevents pressing into the timber
is placed directly on TerrassenFix® Clamp III	cannot fall into the joint

	SIHG	A [®]	Joint Spac	er Clamp
	montag	epack	Type	Joint Widths
Art. No. PU		PU	FAZ	[mm]
	40646	5	6	6,0
	40656	5	7	7,0
	40666	5	8	8,0
	40686	5	10	10,0



Joint Spacer Clamp FAZ



SIHGA® TIP:

TerrassenFix® Joint Spacer Clamp FAZ 6 optimum for laying of SenoFix® II SX*.







TerrassenFix Aqua®

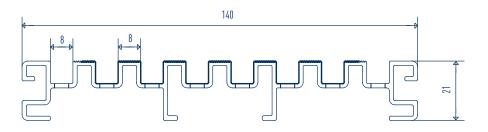
SIHGA® Feature

YOUR Benefit

drainage grating for protecting seals for use in passages	professional design in accordance with ÖNORM B 3691 and DIN 68800 standards
aluminium profile with special geometry	easy to work with conventional tools
perforation for rapid water drainage	protection of vertical bonding and seals
grooved surface	prevents spray water
developed for universal use	suitable for terrace projects
supplied in 1000 mm or 4000 mm length	simply put the necessary parts together
TerrassenFix Aqua® 1000 mm incl. F-BohrFix® ES 3.2 x 50 mm	for securing on wood or aluminium substructure

SIHG	6 A ®	Type
objektpack®		Dimensionen
Art. No.	PU	Aqua
40459 10		140 x 1000 x 21*

SII	HGA®	Туре
Pad	ckage	Dimensionen
Art. No.	PU	Aqua
40472	10	140 x 4000 x 21



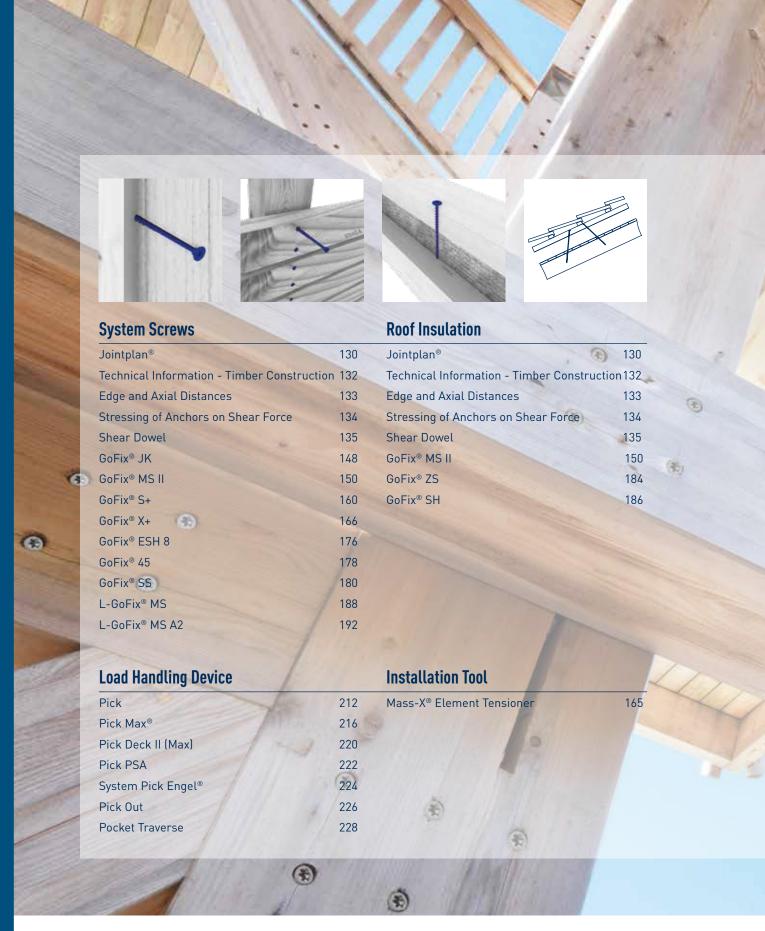


www.sihga.com

Can be easily attached to substructure with F-BohrFix® ES 3.2 x 50 mm.



^{*} incl. F-BohrFix® ES 3,2 x 50 mm



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260

264

270

272



208

210

230

240

250

HobaFix® HF

HobaFix® Max

HobaFix® HFM

WabaFix® WF

Digital wood protection

Support Foot Herakulix® Support Foot ZaFix® STZ

Pfalu®

ProziFix®

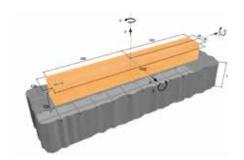
Pfalu Aquastop®

Monitorix® 274

www.sihga.com System Catalogue 129



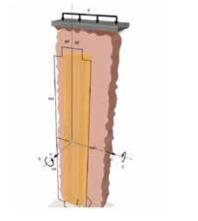
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innovative software for dimensioning of wood and steel add-on parts in the most common dimensions, profile types and sizes according to current standards

YOUR Benefit

time saving; security for you and your customers



both concrete and brick substrates selectable; even with individual reinforcement and bricks with preload by ceilings possible for almost all building project applicable



optimised dowel arrangement; due to the possibility to enter line loads the fasteners arrangement is immediately optimised automatic saving on material and working time



extensive database of SIHGA® wood/concrete/ brick anchoring technology one software for all applications

 \bigcirc

SIHGA® TIP:

Download the desktop version at www.sihga.com.

www.sihga.com System Catalogue 131

Technical Information - Timber Construction

Needle Wood	Glued Laminated Timber
C 14	
C 20	
C 24	
	Gl24c
C 30	
	Gl24h
	Gl28c
C 35	Gl32c
	Gl28h
	Gl32h
	Wood C 14 C 20 C 24 C 30

_ ρk = Mass (kg) : Volume m³

C = Coniferous tree

GL = Glue lam timber

The aim of the innovative SIHGA® developments is to increase the efficiency of building with wood through modern mechanical fastenings. The load-bearing capacity and deformation behaviour of the fastenings have a critical impact on building designs.

The unique quality of wood as a building material requires the greatest attention to connections and fastenings. For a simple overview of the strength classes of the various woods, please see the above table for the raw density rk with the allocated designations.

Category of exposure time	Order of magnitude	Examples	Use category 1 + 2 k _{mod}
Permanent	Longer than 10 years	Tare weight	0.6
Long	6 months to 10 years	Stored material in factories	0.7
Mean	1 week to 6 months	Payloads in residential buildings, snow > 1,000 masl	0.8
Short	Shorter than 1 week	Snow ≤ 1,000 masl	0.9
Very short	Shorter than 1 minute	Impact and earthquakes	1.1

As a result of the new standard Eurocode 5 and the introduced evidence concept with help from partial safety factors, wood construction is confronted with various values and calculation formulas. On one hand, the effects are increased with certain partial safety factors, and on the other hand the load-bearing capacity (or resistance) of the material and fastenings are reduced with other partial safety factors.

For this, SIHGA® offers pre-calculation for the respective load in various raw densities and wood qualities.

The characteristic values shown in the SIHGA® tables must be further calculated using the following equation:

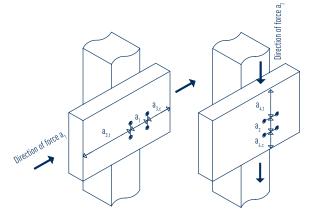
 R_{d} Calculation or design value

 k_{mod} Modification factor, influence of the load exposure period and usage class

 $\gamma_{\rm M}$ Partial safety factors for construction material properties (EC 5 recommends $\gamma_{\rm M}$ = 1.3 for connections)

$$R_d = \frac{k_{mod} \cdot R_k}{\gamma_M}$$

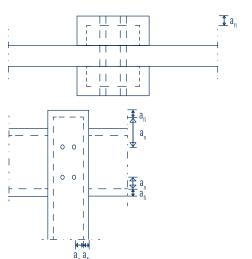
Edge and Axial Distances



E	dge and Axial Distances	Not Pre- Drilled	Pre-Drilled/ Drill Bit
	Distance a	[mm]	[mm]
a_1	parallel to the grain	12 d	5 d
a _{3,t}	stressed end-cut timber	15 d	12 d
a _{3,c}	unstressed end-cut timber	10 d	7 d
a ₂	a_2 perpendicular to the grain $a_{4,t}$ stressed edge		4 d
a _{4,t}			7 d
a _{4,c}	unstressed edge	5 d	3 d

d... Screw diameter

Fire Protection



Fire protection for constructive screw connections

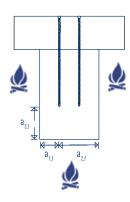
In the Event of a Fire Screws on Shearing Screws on Pull Out²⁾

	BSH	Solid Wood			
	a _s [mm]	a _{fi} [mm]	a _{1,f} [mm]	a _{2,f} [mm]	a _{3,f} [mm]
R 30	16	18	29	69	49
R 60	481)	54 ¹⁾	53	93	73

Main Beam

Secondary Beam

Fire safety when using HobaFix® HF



	R 30		R	R 60		R 60
HobaFix® HF	Width [mm]	Height [mm] ¹)	Width [mm]	Height [mm] ¹)	Height [mm] ¹)	Height [mm] ¹)
70	88	126,5	136	150,5	98	124
100	108	159	156	183	128	154
135	108	192	156	216	163	189
170	108	228	156	252	198	224
200	128	261	176	285	228	254
240	128	301	176	325	268	294

 $^{^{\}rm 11}$ flush installation on the upper edge and three-sided strip Calculation according to EN 1995-1-2

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¹⁾ protected with a glued wooden dowel

²⁾ protected against direct fire stress

Minimum distances at normal temperature do not lose their validity

Calculation according to EN 1995-1-2

a,...edge and centre distances at normal temperature

Burnout cross section

Shear load is to be validated separately

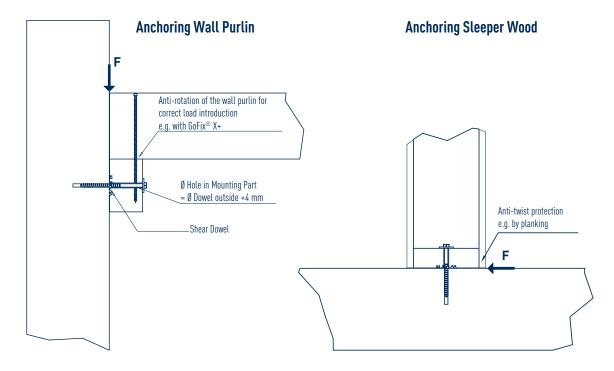
Stressing of Anchors on Shear Force

For anchorages of timber beams in concrete or masonry subjected to shear force, EN 1992-4:2018 stipulates that a lever arm must be considered. This means that the anchor is not only stressed by shearing but also by bending. This component is usually decisive and results in the anchor having only a fraction of its actual shear resistance.

In order to utilise the full shear force bearing capacity of the anchor, it is possible to insert a single-sided shear dowel type C, whose nominal diameter is equal to the nominal diameter of the anchor, between the fixture and the concrete, so that the entire shear force is introduced into the anchor via the shear dowel. This applies to anchors of all types and manufacturers, whether glued, screwed or driven in.

For the correct load introduction in the shear joint, sufficient stiffness or anti-twist protection is necessary.

Furthermore, the attachment part must have a sufficiently large hole to ensure that the hole soffit of the disc anchor lies securely on the anchor.



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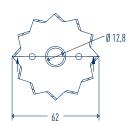
Shear Dowel

SIHG	۸®		Dimension	n
montagepack		Outer Ø	Ø Hole	Ø Anchor
Art. No.	PU	[mm]	[mm]	[mm]
35116	20	62	12,8	12 / 12,5
35126	20	75	16,8	16,0

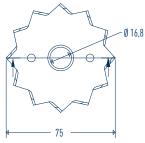
Dimension		Distance stressed edge dowel axis 90° to fibre	Distance unstressed edge dowel axis 90° to fibre	Charcteristic Values [kN]*
		[mm]	[mm]	$R_{v,k}$
	62 x 12	50	38	8,7
	75 x 16	60	45	11,6

^{*} characteristic values for dimensioning according to EC 5 and strength class C 24 (pk 350 kg/m²)











Shear Dowel 62/12



Shear Dowel 75/16



SIHGA® TIP:

Serves for the perfect introduction of shear forces with BeziFix $^{\circ}$ Anchor ZSS 12.5 and Betsi $^{\circ}$ M 12 / M 16 as well as BeziFee $^{\circ}$ with M 12 / M 16.

www.sihga.com System Catalogue 135



SIHGA® Feature **YOUR Benefit** fastenings for wall beams, sills, steel brackets, one expansion anchor for numerous application support feet, etc. on non-cracked concrete from areas concrete quality C 20/25 developed for very high tensile and shear loads saves time, costs and establishes long-lasting and highly durable connections enables the fastening of large wood cross-sections extra long lengths of up to 400 mm easy to install the full load-bearing capacity is attained through simply knocking in and tightening simply read the load table incl. edge distances provides assurance of the right anchor selection enables even smaller edge and axial distances than for special applications, SIHGA® performs the those specified in the table values calculation for you includes installation instructions and Stabebo time-saving, practical, precise, complete

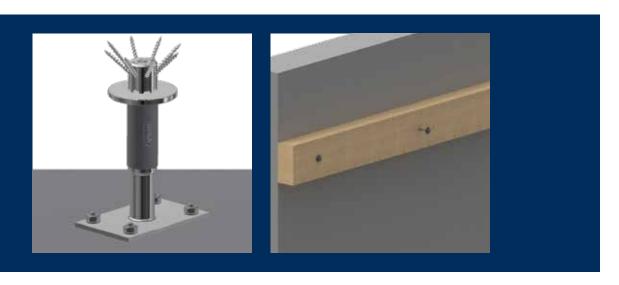
accessories enclosed

safety per ETA

SDS drill with four-edged geometry specially for

reinforced concrete

stainless steel expansion clip



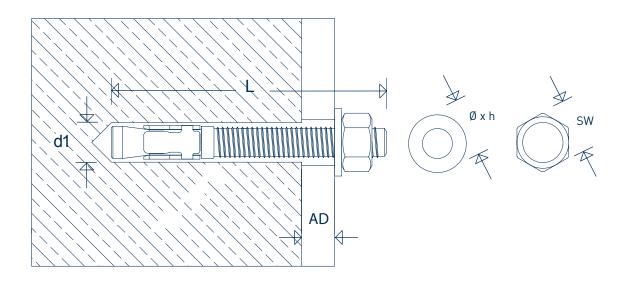


Ensure the correct drill diameter and drill quality, the Stabebo SDS Drill is therefore enclosed.

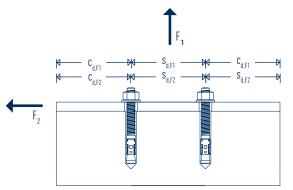


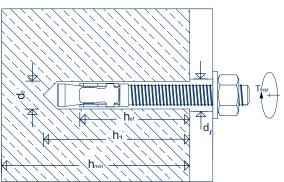






SIHGA®		Dimension	Add-on Part	Width Across Flats	Washer
montagep	oack	Betsi [®]	$AD = t_{fix}$	SW	Øxh
Art. No.	PU	d1 x L	[mm]	[mm]	[mm]
25856	100	8,0 x 75	17	13	16 x 1,6
25416	50	10,0 x 90	25	17	20 x 2,0
25426	50	10,0 x 100	35	17	20 x 2,0
25436	50	10,0 x 120	55	17	20 x 2,0
25446	50	10,0 x 150	85	17	20 x 2,0
25456	50	10,0 x 170	105	17	20 x 2,0
25516	50	12,0 x 110	28	19	24 x 2,0
25526	50	12,0 x 120	38	19	24 x 2,0
25536	50	12,0 x 140	58	19	24 x 2,0
25546	50	12,0 x 160	78	19	24 x 2,0
25556	50	12,0 x 180	98	19	24 x 2,0
25606	50	12,0 x 200	118	19	36 x 2,5
25616	50	12,0 x 220	138	19	36 x 2,5
25626	50	12,0 x 240	158	19	36 x 2,5
25636	30	12,0 x 280	198	19	36 x 2,5
25646	30	12,0 x 300	218	19	36 x 2,5
25656	30	12,0 x 360	278	19	36 x 2,5
25706	20	16,0 x 240	125	24	48 x 3,0
25716	20	16,0 x 280	165	24	48 x 3,0
25726	15	16,0 x 300	185	24	48 x 3,0
25736	15	16,0 x 400	285	24	48 x 3,0





SIHGA®	Вє	etsi®	M 8	M 10	M 12	M 16
effective anchoring depth	h _{ef}	[mm]	45	50	60	85
concrete drilling diameter	d。	[mm]	8	10	12	16
attachment drilling diameter	d _f	[mm]	10	12	14	18
borehole depth	h ₁	[mm]	60	65	80	110
min. concrete thickness	h _{min}	[mm]	100	100	120	170
max. tightening torque	T _{inst}	[Nm]	20	35	55	100
minimum edge spacing without load influence	C_{min}	[mm]	61	68	81	115
maximum axial distance without load influence	S _{min}	[mm]	61	68	81	115

recommended tensile strength per anchor without edge influence, at edge spacing c \geqslant 1.2 x c_{cr.sp.(lt. ETA)} recommended centre distance s ≥ 3 x h_{ef}*

in non-cracked concrete min C 20/25	F ₁	[kN]	5.0*	6.7*	8.9*	8.9*
recommended edge distance	C _{d.F1}	[mm]	136	150	180	256
recommended centre distance	S _{d.F1}	[mm]	135	150	180	255

recommended shear resistance per anchor without edge influence, with edge spacing $c \ge 60 \times d$ and centre distance s ≥ 3 x h

in non-cracked concrete min C 20/25	F ₂	[kN]	7.4*	11.6*	16.9*	31.4*
recommended edge distance	$C_{d.F2}$	[mm]	480	600	720	960
recommended centre distance	S _{d.F2}	[mm]	135	150	180	255

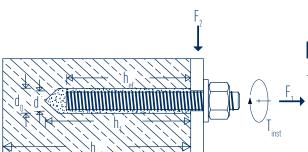
* for systems with high installation safety γ_2 = 1.0 ETAG 0001 2010 Annex C - Design method for Anchoring in concrete / safety concept 3.2.3.1 and 3.2.3.2 recommended loads of a single anchor in concrete C 20/25, normal reinforced in compliance with the specified AD and edge distances



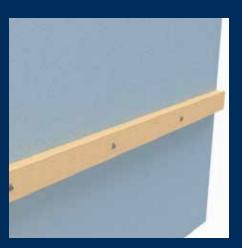


YOUR Benefit

2 component injection adhesive system for secure attachment of threaded and anchor rods	approved product for cracked and non-cracked concrete, brick and stone
certified for extensive use	low storage costs, only one product
useable under water and waterproof when installed	no restrictions on applicability, even with seismic loading (performance category C1)
does not contain any harmful styrene and is free from VOC (volatile organic compounds)	even useable in the drinking water sector and no biting odour during processing
fire resistance F120	incombustible (class A1)
static mixer for mixing the two components and extension pipe for thermal insulation contain	practical accessories directly on the construction site, commercialcartridge gun can be used
high rated values, also near the edge	easy to read carrying capacity - for special applications SIHGA® can perform the sizing for you
case with static mixer, hand pump, wire brush, extension tube and sieve sleeve	use accessories directly on the construction site using a practical case



montage	pack	SIHGA®	Dimension
Art. No.	PU		ml
41706	2	BeziFee®	300





SIHGA® TIP:

Observe processing temperature of +5 °C to +30 °C.







SIHGA®	Bezi	Fee®			Threa	ded Rod	in Concr	ete		
threaded rod	d	[-]	M 8	M 10	M 12	M 16	M 20	M 24	M 27	M 30
concrete drilling diameter	d。	[mm]	10	12	14	18	22	26	30	35
min. edge distance without load influence	c _{min}	[mm]				h /	2			
min. centre distance without load influence	S _{min}	[mm]				h _{ef} /	Z			
min. concrete thickness	$h_{\scriptscriptstyle min}$	[mm]		h _{ef} + 30	≥ 100			h _{ef} +	- 2d ₀	
max. tightening torque	T_{inst}	[Nm]	10	20	40	80	150	200	240	275
effective anchoring depth	$h_{\text{ef,min}}$	[mm]	64	80	96	128	160	192	216	240
	$h_{\text{ef,max}}$	[mm]	160	200	240	320	400	480	540	600
standard anchoring depth	$h_{\text{ef,s}}$	[mm]	80	90	110	128	170	210	240	270
		acked cor	crete							
recommended tensile strength with h _{efs}	F ₁	[kN]	8,5	14,9	21,9	32,2	50,4	70,4	63,0	66,6
recommended shear resistance with h	F ₂	[kN]	6,5	10,4	15,1	28,7	44,8	64,5	85,1	103,4
	cracl	ked concr	ete							
recommended tensile strength with h _{ef.s}	F ₁	[kN]	-	-	10,4	16,1	26,7	39,6	-	-
recommended shear resistance with h _{ef.s}	F ₂	[kN]	-	-	15,1	28,7	44,8	64,5	-	-

ETAG 0012010 C - Design method for anchorages in concrete / Safety concept 3.2

Recommended loads of a single anchor in dry and damp concrete C 20/25, normal reinforced, without edge influence:
Temperature range (-40 °C to + 40 °C); Cross bearing capability with steel 5.8
For other applications see ETA 17/0182 and 17/0181

Brick	M 8	M 10	M 12		
perforated casing		[-]	16 x 85	16 x 85	20 x 85
brick drilling diameter	d。	[mm]	1	6	20
borehole depth	h ₁	[mm]		90	
effective anchoring depth	h _{ef}	[mm]		85	
max. tightening torque	T _{inst}	[Nm]		2	
recommended load capacity stone 1*	$F_1 = F_2$	[kN]	0,80	0,80	1,00
recommended load capacity stone 2*	$F_1 = F_2$	[kN]	0,36	0,48	0,60

 $^{^{\}star}$ recommended loads of a single anchor without edge influence The load-bearing capacity of other stones may be determined by on-site tests in accordance with ETAG 029 appendix B

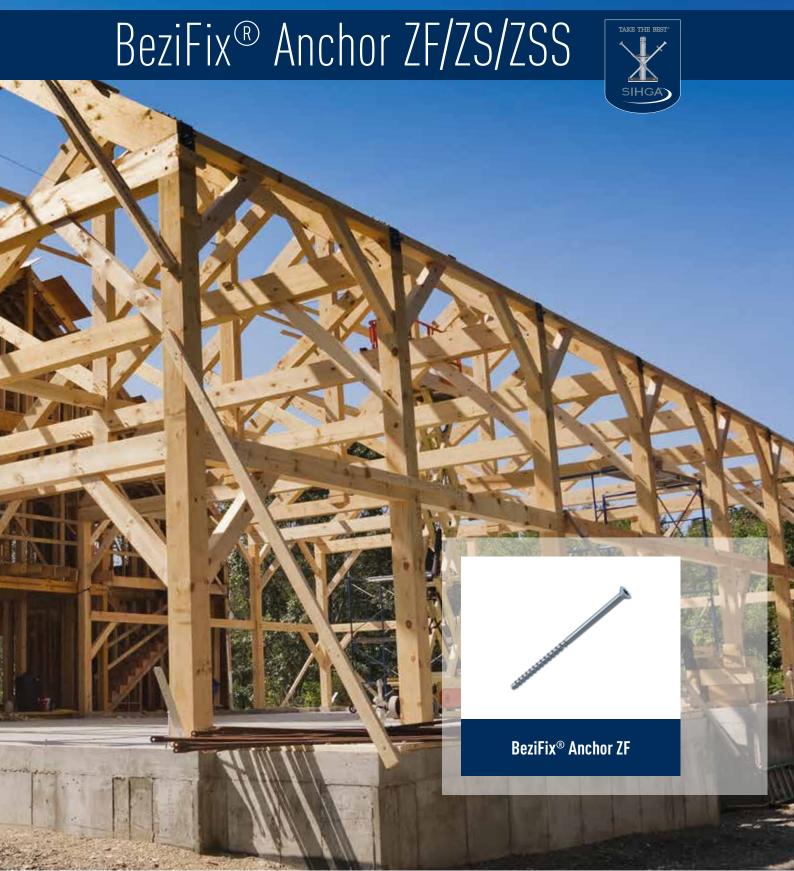
Type of Bricks	Min. Thickness	Min. Compressive Strength	Min. Horizontal Centre Distance	Min. Vertical Centre Distance	Min. Edge Distance
	ρ [kg/dm³]	fb [N/mm²]	s _{min,II} [mm]	s _{min,n} [mm]	c _{min} [mm]
stone no. 1: Porotherm P+W	0,9	12	373	238	120
stone no. 2: Hueco Doble	0,74	2,5	245	110	120



BeziFee® Equipment

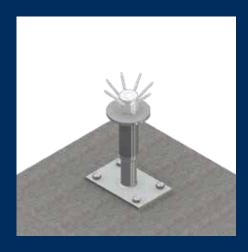
	YOUR Benefit
BeziFee® Wire Brush	
Ø 18 mm	for dust-free boreholes
BeziFee® Sieve Sleeve long	
sieve sleeve for perforated bricks	cut to length according to individual requirements
Ø 22, length 1000 mm	for M 12 - M 16
BesiFee® Sieve Sleeve short	
Ø 20, length 85 mm, for M 12	sieve sleeve with stop for perforated bricks
BeziFee® Hand Pump	
hand pump 750 ml for dust-free boreholes	secure hold in bore-hole
BeziFee® Statik Mixer	
suitable mixer	for mixing the components
BeziFee® Extension Tube	
Ø 10, length 285 mm for deeper boreholes	for use with thermal insulation
BeziFee® Systemkit	
case with static mixer, hand pump, wire brush, extension tube and sieve	use accessories directly on the construction site using a practical case
	BeziFee® Sieve Sleeve long sieve sleeve for perforated bricks Ø 22, length 1000 mm BesiFee® Sieve Sleeve short Ø 20, length 85 mm, for M 12 BeziFee® Hand Pump hand pump 750 ml for dust-free boreholes BeziFee® Statik Mixer suitable mixer BeziFee® Extension Tube Ø 10, length 285 mm for deeper boreholes BeziFee® Systemkit case with static mixer, hand pump,





SIHGA® Feature	YOUR Benefit
fastens in concrete without dowels	optimal for fastening close to edges, no splitting effect
easy push-through installation	saves a great deal of time because the BeziFix® Anchor ZF/ZS/ZSS is only pushed through the part to be anchored
drill hole diameter smaller than with expansion anchors	also saves lots of installation time
sawtooth thread in the front area	makes it easy to screw into the pre-drilled concrete
just tighten by hand to achieve the full load-bearing capacity	does not need a torque wrench
approved with grades C 20/25 to C 50/60 in cracked and non-cracked concrete	there are few restrictions on the application, gives security
includes installation instructions and Stabebo® SDS drill with four-edged geometry specially for reinforced concrete	time-saving, practical, precise, complete accessories enclosed
design values	SIHGA® performs the calculation for you



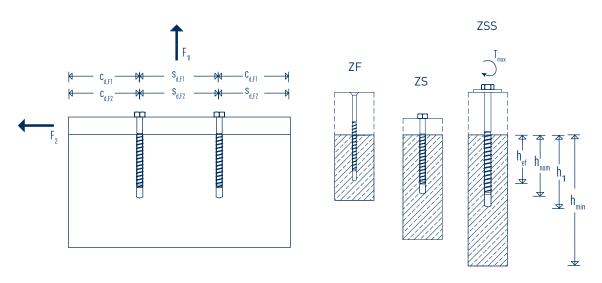




Ensure correct drill diameter and drill quality, the drill is therefore enclosed.







SIHGA®	BeziFix	® Anchor	ZF	ZS	ZSS
coating			SC 12	SC 12	SC 4
diameter	Ø	[mm]	7.5	10.5	12.5
screw-in depth	h _{nom}	[mm]	55	75	95
effective anchoring depth	h _{ef}	[mm]	41	55	71
drill diameter - concrete	d _o	[mm]	6.0	9.0	10.0
drilled hole depth	h ₁	[mm]	70	90	110
min. concrete thickness	h _{min}	[mm]	100	160	200
max. tightening torque 41	T _{max}	[Nm]	250	450	450
min. edge and axial distances without load influence		[mm]	40	55	65
recommended tensile capacity F_1 per with edge distance $c \ge 1.2 \times C_{Cr.sp (per ET)}$					
uncracked concrete min. C20/25	F ₁	[kN]	2.9 1)	3.3 2)	13.9 2)
cracked concrete min. C20/25	F ₁	[kN]	1.4 1)	1.7 2)	6.7 2)
recommended edge distance	$C_{d,F1}$	[mm]	90	120	168
recommended axial distance	S _{d.F1}	[mm]	123	165	213
recommended lateral capacity F_2 per anchor without edge influence, with edge distance c \ge 10 x h_{ef} and axial distance s \ge 3 x h_{ef}					
concrete min. C 20/25	F ₂	[kN]	7.6 ³⁾	14.9 ³⁾	23.1 ^{3]}
recommended edge distance	C,	[mm]	410	550	710

 $S_{d.F2}$

[mm]



SIHGA® TIP:

recommended axial distance

Tangential impact wrench recommended for processing.





123

165

213

 $^{^{11}}$ low installation safety $\gamma 2$ = 1.4; ETAG 001 2010 annex C 21 normal installation safety $\gamma 2$ = 1.2; ETAG 001 2010 annex C 31 high installation safety $\gamma 2$ = 1.0; ETAG 001 2010 annex C

⁴ setting tool: Tangential impact wrench, max. power rating Tmax per manufacturer's instructions

ETAG 001 2010 Annex C – dimensioning of metal anchors for use in concrete / safety concept 3.2.3.1 and 3.2.3.2

Recommended loads for single anchor in concrete C 20/25, standard reinforcement – in compliance with AD (thickness add-on part) and edge distances as indicated

YOUR Benefit

design values

SIHGA® performs the calculation for you

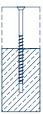
BeziFix® Anchor ZF with counter-sunk head and Torx drive, Bezifix® Anchor ZS with hex head, BeziFix® Anchor ZSS with hex head and washer DIN 440

ensures optimum force transfer when screwed in

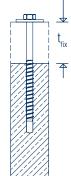










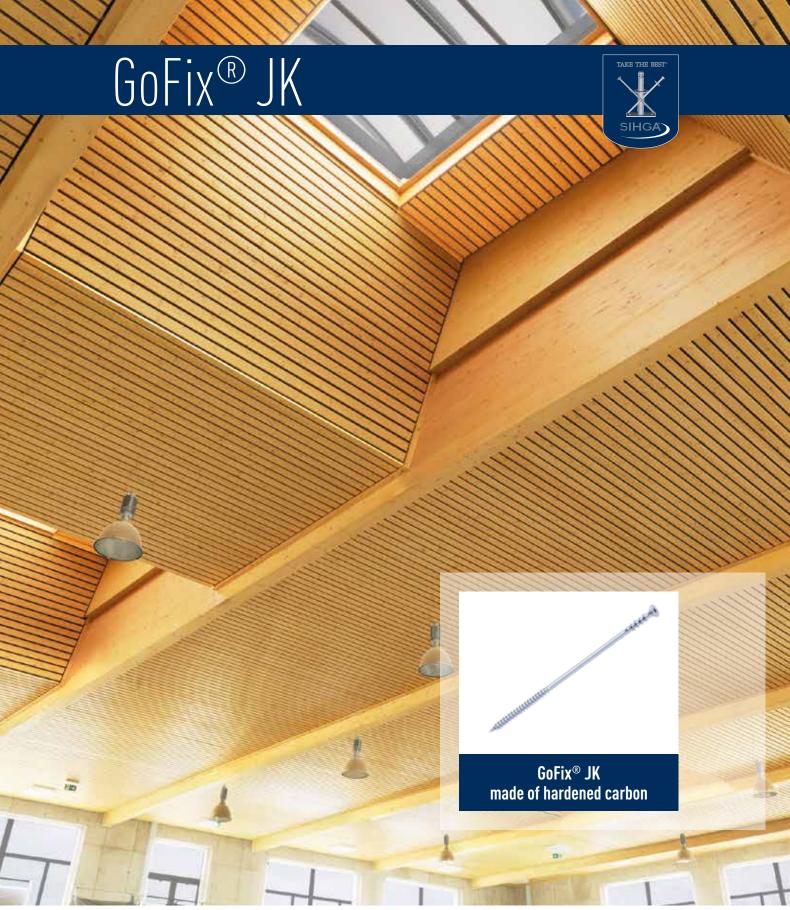


SIHO	6A®	Dimension	Installation Part Thickness	Dime	nsion
montag	epack	BeziFix® Anchor ZF	t _{fix}	Drive	DK
Art. No.	PU	d1 x L	[mm]	TX	[mm]
41306	100	7.5 x 40	5	40	13
41316	100	7.5 x 60	5	40	13
41326	100	7.5 x 80	25	40	13
41336	100	7.5 x 100	45	40	13
41346	100	7.5 x 120	65	40	13
41356	100	7.5 x 140	85	40	13
41366	100	7.5 x 160	105	40	13

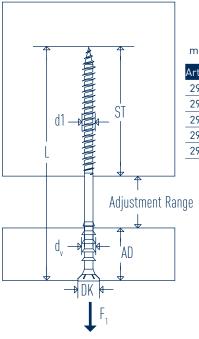
montag	epack	BeziFix® Anchor ZS	t _{fix}	SW
Art. No.	PU	d1 x L	[mm]	[mm]
41506	50	10.5 x 60	5	15
41516	50	10.5 x 80	5	15
41526	50	10.5 x 100	25	15
41536	50	10.5 x 120	45	15
41546	50	10.5 x 140	65	15
41556	50	10.5 x 160	85	15

montag	epack	BeziFix® Anchor ZSS	t_{fix}	SW	DS
Art. No.	PU	d1 x L	[mm]	[mr	n]
41816	30	12.5 x 100	5	17	44
41826	30	12.5 x 120	25	17	44
41836	30	12.5 x 140	45	17	44
41846	30	12.5 x 160	65	17	44
41856	30	12.5 x 180	85	17	44
41866	30	12.5 x 200	105	17	44
41876	30	12.5 x 240	145	17	44
41886	30	12.5 x 280	185	17	44
41896	30	12.5 x 320	225	17	44

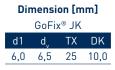




for professional installation from wood on wood	including distance of the two woods
ribs pull without pre-drilling into the wood	adjustment in horizontal and vertical direction possible
including SIHGAFIX, system pin and installation instructions	time-saving, practical, precise, all accessories are included
rated value	SIHGA® will do the calculation for you



SIHG	A ®	Dimension	Attachment Part	Setting Depth	Adjustment Range		mended ads
montage	epack	GoFix® JK	AD	ST	to		Force F ₁
Art. No.	PU	d1 x L	[mm]	[mm]	[mm]	Head	Thread
29326	100	6,0 x 80	20	50	10	0,51	1,03
29336	100	6,0 x 100	20	50	30	0,51	1,03
29346	100	6,0 x 120	20	50	50	0,51	1,03
29356	100	6,0 x 145	20	50	75	0,51	1,03
29366	100	6,0 x 160	20	50	90	0,51	1,03















L-GoFix® MS

SIHGA® Feature	YOUR Benefit
made in Austria	top European quality and added-value
special thread geometry	optimal traction in the end grain
fastens wood to wood, even OSB panels	screw without pre-drilling and pre-sinking
fastens pressure-resistant insulation materials for on-rafter insulation	for insulation with a compressive stress above 50 kPa
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles
the splitting effect in the wood is reduced through the special multi-stage head	saves 50 % of storage, combines countersunk head and flat-head; transfers high forces, but can still be countersunk and facilitates screw connections close to the edge
special ribs on the shaft and slip coating	pre-drilling effect, easy rotation, battery-saving
SIHGA® tip	fast setting of the screw, user-friendly and time- saving
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® also enables screwing into deep grooves
SIHGA® Ornamental Washer MSZ for diameter 8 mm	this Ornamental Washer MSZ increases the tensile force of the head to 9.1 kN; very attractive solution





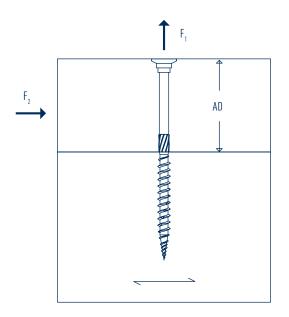
For perfect screw pattern, screw head in flush.





YOUR Benefit

fastens wood to wood, even OSB panels	screw without pre-drilling and pre-sinking
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles
design values	SIHGA® performs the calculation for you





Dimension [mm] GoFix® MS II

d1	TX	DK	KS 1	KS 2
4,0	15	8,0	5,2	4,0
4,5	20	9,0	5,9	4,5
5,0	25	10,0	6,6	5,0

SIHGA®		Dimension	Installation Part		Character	istic Values*	
montag	epack	GoFix® MS II	AD	Tensile Fo	rce F ₁ [kN]	Shear For	ce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
44056	500	4,0 x 30	12	1,04	1,04	0,75	1,10
44066	500	4,0 x 35	14	1,13	1,22	0,79	1,23
44076	500	4,0 x 40	16	1,13	1,39	0,82	1,29
44086	500	4,0 x 45	18	1,13	1,57	0,84	1,29
44096	500	4,0 x 50	20	1,13	1,74	0,87	1,29
44106	500	4,0 x 60	24	1,13	2,09	0,94	1,29
44226	400	4,5 x 50	20	1,39	1,89	1,01	1,52
44236	400	4,5 x 60	24	1,39	2,27	1,09	1,52
44246	300	4,5 x 70	28	1,39	2,65	1,16	1,52
44316	200	5,0 x 50	20	1,67	2,07	1,20	1,92
44326	200	5,0 x 60	24	1,67	2,48	1,27	1,92
44336	200	5,0 x 70	28	1,67	2,90	1,34	1,92
44346	200	5,0 x 80	32	1,67	3,31	1,42	1,92
44356	200	5,0 x 90	36	1,67	3,73	1,48	1,92
44366	200	5,0 x 100	40	1,67	4,14	1,48	1,92
44376	200	5,0 x 120	50	1,67	4,83	1,48	1,92

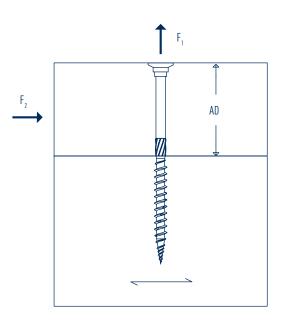
Subject to technical modifications and errors. Status of approval 05.2023

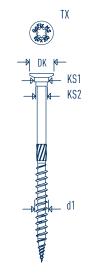
^{*} characteristic values for measurement according to EC 5, bulk density $\rho k = 350 \text{ kg/m}^3$ (C24)





fastens wood to wood, even OSB panels	screw without pre-drilling and pre-sinking
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles
design values	SIHGA® performs the calculation for you



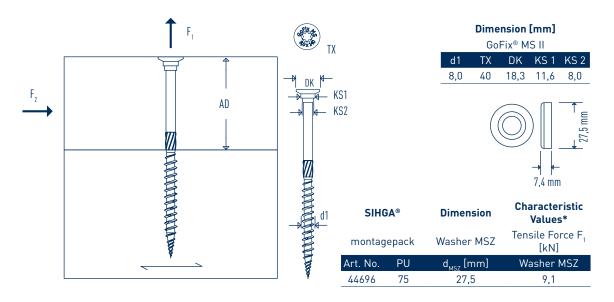


Difficusion [fiffit]				
	Go	Fix® M	SII	
d1	TX	DK	KS 1	KS 2
6,0	30	13,5	8,6	6,0

	SIHG	6 A ®	Dimension	Installation Part		Character	istic Values*	
	montag	epack	GoFix® MS II	AD	Tensile Fo	rce F ₁ [kN]	Shear For	ce F ₂ [kN]
	Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
	44406	100	6,0 x 70	28	2,97	3,38	1,90	2,87
	44416	100	6,0 x 80	32	2,97	3,86	1,98	2,87
	44426	100	6,0 x 90	36	2,97	4,34	2,06	2,87
	44436	100	6,0 x 100	40	2,97	4,82	2,15	2,87
	44446	100	6,0 x 120	50	2,97	5,63	2,25	2,87
	44456	100	6,0 x 140	70	2,97	5,63	2,25	2,87
	44466	100	6,0 x 160	90	2,97	5,63	2,25	2,87
	44476	100	6,0 x 180	110	2,97	5,63	2,25	2,87
_	44486	100	6,0 x 200	130	2,97	5,63	2,25	2,87

Subject to technical modifications and errors. Status of approval 05.2023 * characteristic values for measurement according to EC 5, bulk density pk = 350 kg/m³ [C24]

fastens wood to wood, even OSB panels	screw without pre-drilling and pre-sinking
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles
design values	SIHGA® performs the calculation for you
online calculation	at www.sihga.com (on-rafter insulation)



SIHO	6A®	Dimension	Installation Part		Characteri	stic Values*	
montag	jepack	GoFix® MS II	AD	Tensile Fo	rce F ₁ [kN]	Shear For	ce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
44506	75	8,0 x 80	30	4,96	4,96	2,96	4,66
44516	75	8,0 x 100	40	5,05	5,95	3,19	4,72
44526	75	8,0 x 120	50	5,05	6,94	3,44	4,72
44536	75	8,0 x 140	60	5,05	7,94	3,71	4,72
44546	75	8,0 x 160	70	5,05	8,93	3,71	4,72
44556	75	8,0 x 180	80	5,05	9,92	3,71	4,72
44566	75	8,0 x 200	100	5,05	9,92	3,71	4,72
44576	75	8,0 x 220	120	5,05	9,92	3,71	4,72
44586	75	8,0 x 240	140	5,05	9,92	3,71	4,72
44596	75	8,0 x 260	160	5,05	9,92	3,71	4,72
44606	75	8,0 x 280	180	5,05	9,92	3,71	4,72
44616	75	8,0 x 300	200	5,05	9,92	3,71	4,72
44626	75	8,0 x 320	220	5,05	9,92	3,71	4,72
44636	75	8,0 x 340	240	5,05	9,92	3,71	4,72
44646	75	8,0 x 360	260	5,05	9,92	3,71	4,72
44656	75	8,0 x 380	280	5,05	9,92	3,71	4,72
44666	75	8,0 x 400	300	5,05	9,92	3,71	4,72
44676	75	8,0 x 450	350	5,05	9,92	3,71	4,72
44686	75	8,0 x 500	400	5,05	9,92	3,71	4,72

Subject to technical modifications and errors. Status of approval 05.2023 * characteristic values for measurement according to EC 5, bulk density pk = 350 kg/m³ [C24]

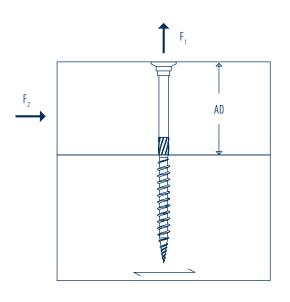




L-GoFix® MS

SIHGA® Feature

fastens wood to wood, even OSB panels	screw without pre-drilling and pre-sinking		
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles		
design values	SIHGA® performs the calculation for you		
online calculation	at www.sihga.com (on-rafter insulation)		





Dimension [mm]					
GoFix® MS II					
d1	TX	DK	KS 1	KS:	
10,0	50	22,5	14,4	10,0	

SII	IGA®	Dimension	Installation Part		Character	istic Values*	
monta	agepack	GoFix® MS II	AD	Tensile Fo	rce F ₁ [kN]	Shear For	ce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
44706	50	10,0 x 80	30	5,75	5,75	3,49	5,57
 44716	50	10,0 x 100	40	6,90	6,90	4,16	6,34
44726	50	10,0 x 120	50	7,09	8,05	4,48	6,39
44736	50	10,0 x 140	60	7,09	9,20	4,79	6,39
44746	50	10,0 x 160	70	7,09	10,35	5,04	6,39
44756	50	10,0 x 180	80	7,09	11,50	5,04	6,39
 44766	50	10,0 x 200	100	7,09	11,50	5,04	6,39
44776	50	10,0 x 220	120	7,09	11,50	5,04	6,39
44786	50	10,0 x 240	140	7,09	11,50	5,04	6,39
44796	50	10,0 x 260	160	7,09	11,50	5,04	6,39
44806	50	10,0 x 280	180	7,09	11,50	5,04	6,39
44816	50	10,0 x 300	200	7,09	11,50	5,04	6,39
44826	50	10,0 x 320	220	7,09	11,50	5,04	6,39
44836	50	10,0 x 340	240	7,09	11,50	5,04	6,39
44846	50	10,0 x 360	260	7,09	11,50	5,04	6,39
44856	50	10,0 x 400	300	7,09	11,50	5,04	6,39
 44866	50	10,0 x 450	350	7,09	11,50	5,04	6,39
44876	50	10,0 x 500	400	7,09	11,50	5,04	6,39
44886	50	10,0 x 550	450	7,09	11,50	5,04	6,39
44896	50	10,0 x 600	500	7,09	11,50	5,04	6,39



Subject to technical modifications and errors. Status of approval 05.2023 * characteristic values for measurement according to EC 5, bulk density pk = 350 kg/m³ [C24]

Greatest earthquake protection

GoFix® MS II

SIHGA® Feature

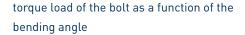
YOUR Benefit

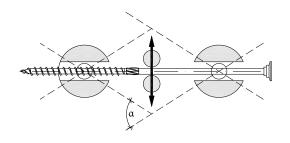
SIHGA® is ahead of its time	tests already under way for the latest revision of Eurocode 5
latest tests confirm excellent properties	ductility ensures safety
best ductility class S3 for earthquake resistance	safety according to prEN 14592
simulated earthquake load through cyclic bending of the bolts	reliable residual load capacity of at least 90 %

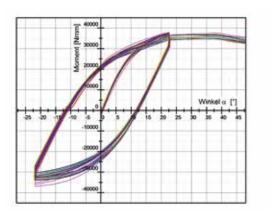
GoFix® MS II	Residual Load Capacity	
Ø [mm]	M_{final}/M_{int}	
6	90 %	
8	93 %	
10	100 %	



bending of the bolt during the test





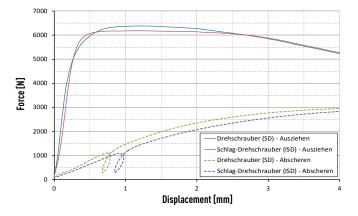


156 System Catalogue www.sihga.com

GoFix® MS II application by means of impact screwdriver

Tested by the University of Innsbruck

SIHGA® Feature **YOUR Benefit** positive report for processing with impact provides security screwdrivers graph below shows comparison of screw-in only slightly affects the initial stiffness of a connection methods impact screwdriver brings benefits less strain on the wrist, even when working overhead









158 System Catalogue www.sihga.com

GoFix® MS II using in hardwood

SIHGA® Feature

YOUR Benefit

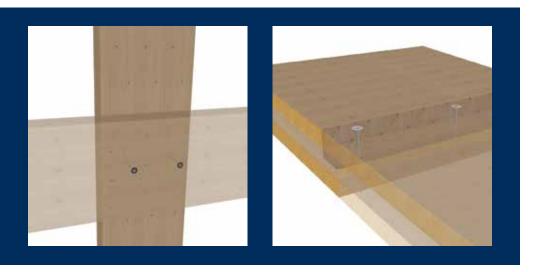
use in hardwood allowed	safety according to ETA -20/0558
extensive application possible by means of pre- drilling	in solid wood, glued plywood board and laminated veneer wood
head pull-through force and thread extension may be increased by the factor k; observe maximum tensile strength according to ETA	high load capacity for efficient connections

GoFix® MS II

Core Diameter = max.
Predrilling Diameter

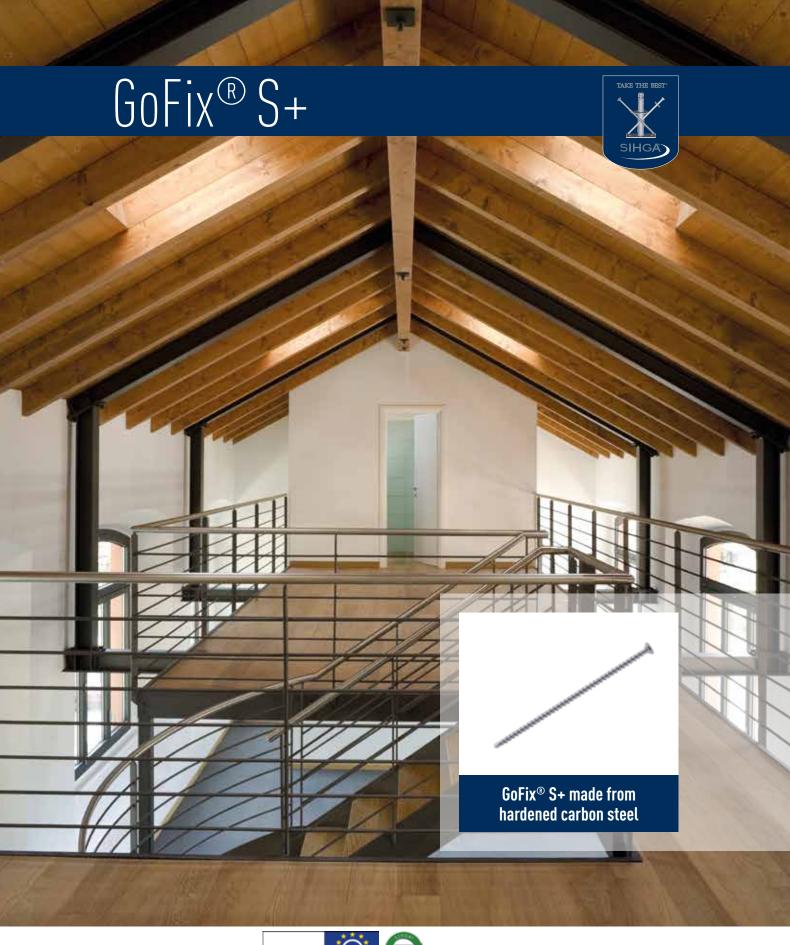
Diameter [mm]	[mm]
5,0	3,3
6,0	4,0
8,0	5,3
10,0	6,2

$$k_{\text{dens}} = \left(\frac{\rho_{\text{k}}}{350}\right)^{0.8}$$

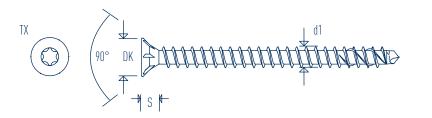




For screw connections in hardwood WITHOUT drilling, we recommend GoFix® SH.



SIHGA® Feature	YOUR Benefit
fastens steel parts to wood	ideal for mounting wooden covers to steel beams, attaching steel brackets to wooden beams, mounting with steel struts
made from hardened carbon steel	the permanent, secure and powerful fastening
SIHGA® threads and countersunk head	the load forces are optimally transferred from the wood to the steel part
SIHGA® drill bit	for stress-free, easy rotation, enables small edge and axial distances
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles
optimised thread	for lightweight screw connections with low screw- in torque
screw head with deep, recessed drive	for optimum force transfer; avoids undesired skipping of the drive out of the screw head
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed



Dimension [mm]

GoFix® S+

d1	TX	DK	S
8,0	40	15,0	5,5
10,0	50	18,3	6,5







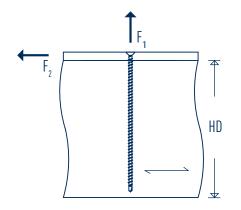
Note edge and axial distances.

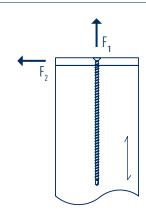
For easier screw-in, use screw-in assistance GoFix® ESH 8.



YOUR Benefit

including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed
design values	SIHGA® performs the calculation for you
online calculation	at www.sihga.com (support reinforcement, notches, anchor beam, breakout)





SIHGA	®	Dimension	Wood Component	Characteristic	c Values 90° *	Characteristi	c Values 0° *
montagep	ack	GoFix®S+	HD	Tensile Force F ₁	Shear Force F ₂	Tensile Force F ₁	Shear Force F ₂
Art. No.	PU	d1 x L	[mm]	[kN]	[kN]	[kN]	[kN]
42406	75	8,0 x 95	100	6,66	6,07	2,00	3,52
42416	75	8,0 x 125	130	9,32	6,81	2,80	3,72
42426	75	8,0 x 155	160	11,90	7,46	3,57	3,91
42436	75	8,0 x 195	200	15,45	8,34	4,64	4,18
42446	75	8,0 x 220	230	17,67	8,90	5,30	4,34
42456	75	8,0 x 245	250	19,89	9,45	5,97	4,51
42466	75	8,0 x 270	280	22,11	10,01	6,63	4,68
42476	75	8,0 x 295	300	24,33	10,56	7,30	4,84
42486	75	8,0 x 330	340	25,00	10,73	8,23	5,08
42496	75	8,0 x 375	380	25,00	10,73	9,43	5,38
42506	75	8,0 x 400	410	25,00	10,73	10,10	5,54
42516	75	8,0 x 430	440	25,00	10,73	10,90	5,74
42526	75	8,0 x 480	490	25,00	10,73	12,23	6,08
42806	50	10,0 x 125	130	11,23	9,09	3,37	4,95
42816	50	10,0 x 155	160	14,47	9,90	4,34	5,20
42826	50	10,0 x 195	200	18,79	10,98	5,64	5,52
42836	50	10,0 x 220	230	21,49	11,65	6,45	5,72
42846	50	10,0 x 245	250	24,19	12,33	7,26	5,93
42856	50	10,0 x 270	280	26,89	13,00	8,07	6,13
42866	50	10,0 x 300	310	30,13	13,81	9,04	6,37
42876	50	10,0 x 330	340	33,00	14,53	10,01	6,61
42886	50	10,0 x 360	370	33,00	14,53	10,98	6,86
42896	50	10,0 x 400	410	33,00	14,53	12,28	7,18
42906	50	10,0 x 450	460	33,00	14,53	13,90	7,59
42916	50	10,0 x 500	510	33,00	14,53	15,52	7,99
42926	50	10,0 x 550	560	33,00	14,53	17,14	8,40
42936	50	10,0 x 600	610	33,00	14,53	18,76	8,80





Subject to technical modifications and errors. Status of approval 05.2023

* characteristic values for measurement according to EC 5, bulk density pk = 350 kg/m³ (C24). Selected steel thickness 15 mm

including SIHGAFIX®, Systemstift® and installation instructions

design values

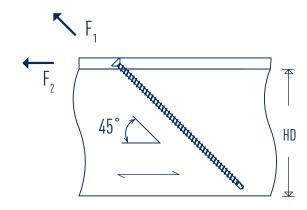
online calculation

YOUR Benefit

time-saving, practical, precise, complete accessories enclosed

SIHGA® performs the calculation for you

at www.sihga.com (support reinforcement, notches, anchor beam, breakout)



SIHG	6A®	Dimension	Wood Component	Characteris	stic Values*
montag	epack	GoFix®S+	HD	Tensile Force F ₁	Shear Force F ₂
Art. No.	PU	d1 x L	[mm]	[kN]	[kN]
42406	75	8,0 x 95	70	6,11	4,32
42416	75	8,0 x 125	95	8,77	6,20
42426	75	8,0 x 155	115	11,44	8,09
42436	75	8,0 x 195	145	14,99	10,60
42446	75	8,0 x 220	165	17,21	12,17
42456	75	8,0 x 245	180	19,43	13,74
42466	75	8,0 x 270	200	21,65	15,31
42476	75	8,0 x 295	215	23,87	16,88
42486	75	8,0 x 330	240	25,00	17,68
42496	75	8,0 x 375	270	25,00	17,68
42506	75	8,0 x 400	290	25,00	17,68
42516	75	8,0 x 430	310	25,00	17,68
42526	75	8,0 x 480	345	25,00	17,68
42806	50	10,0 x 125	95	10,67	7,54
42816	50	10,0 x 155	115	13,91	9,84
42826	50	10,0 x 195	145	18,23	12,89
42836	50	10,0 x 220	165	20,93	14,80
42846	50	10,0 x 245	180	23,63	16,71
42856	50	10,0 x 270	200	26,33	18,62
42866	50	10,0 x 300	220	29,57	20,91
42876	50	10,0 x 330	240	32,81	23,20
42886	50	10,0 x 360	260	33,00	23,33
42896	50	10,0 x 400	290	33,00	23,33
42906	50	10,0 x 450	325	33,00	23,33
42916	50	10,0 x 500	360	33,00	23,33
42926	50	10,0 x 550	395	33,00	23,33
42936	50	10,0 x 600	430	33,00	23,33

Subject to technical modifications and errors. Status of approval 05.2023 * characteristic values for measurement according to EC 5, bulk density pk = 350 kg/m³ (C24). Selected steel thickness 15 mm



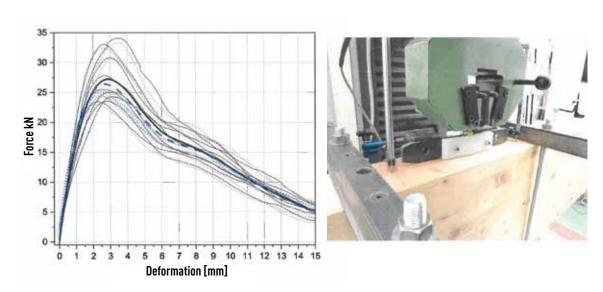


GoFix® S+ application by means of impact screwdriver

Tested by the University of Innsbruck

SIHGA® Feature	YOUR Benefit
positive report for processing with impact screwdrivers	provides security
graph below shows comparison of screw-in methods	comparing the different screw-in methods
impact screwdriver brings benefits	less strain on the wrist, even when working overhead

Extension of the screw in relation to applied force



164 System Catalogue www.sihga.com

Mass-X® Element Tensioner

SIHGA® Feature

YOUR Benefit

shift lever to tension or release easy handling during use screw boards thus only slight damage to the wood a	
screw boards thus only slight damage to the wood a	
power transfer possible ideal for wall and ceiling elements	nd high
boards can be swivelled 360° fixing in every position	
made in Austria best european quality	

SIHGA®		Dimension plate	
montagepack	Length	Width	Height
ArtNo. PU		[mm]	
60926 1	160	60	8





 $GoFix \ S + 8.0 \ mm \ full \ thread \ screws \ are \ suitable \ for \ screwing \ the \ Mass-X^{\circledcirc} \ Element \ Tensioner.$

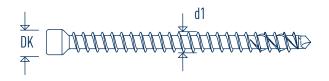
www.sihga.com System Catalogue 165



SIHGA® Feature	YOUR Benefit
fastens blunt wood connections extremely quickly	transfers high tensile, compressive and shearing forces
made from hardened carbon steel	the permanent, secure and powerful fastening
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles
SIHGA® drill bit	for stress-free, easy rotation, enables small edge and axial distances
pre-drilling also permitted, for GoFix® X+ Ø 6.5 mm with 4 mm, with Ø 8.0 mm with 5 mm, with Ø 10.0 mm with 6 mm	for renovating old timber or hard timber
stepless counter sinking screw head with deep, recessed drive	can be countersunk, without splitting effect in the wood and without the drive skipping out of the head
strengthens constructive wood construction	support reinforcements, anchor beams (combined bending girder), notches, transverse force reinforcements can therefore be produced quickly and individually
optimised thread	for lightweight screw connections with low screw-in torque



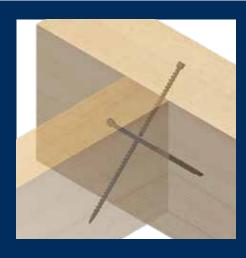
instructions



Dimension [mm]

GoFix® X+

	00	
d1	TX	DK
6,5	30	8,0
8,0	40	10,0
10,0	50	13,0



including SIHGAFIX®, Systemstift® and installation



SIHGA® TIP:

For precise and fast series production of cross screw connections we recommend the professional installation aid. For easier screw-in, use screw-in assistance GoFix® ESH 8.

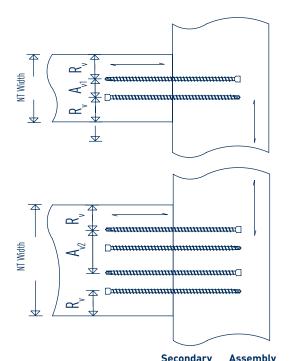


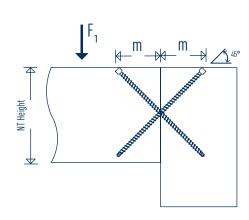
time-saving, practical, precise, complete

accessories enclosed

YOUR Benefit

design values	SIHGA® performs the calculation for you
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed
online calculation	at www.sihga.com (main beam - secondary beam connection)





Dimension [mm]

Go		

d1	TX	DK	R_v	A_{v1}	A_{v2}
6,5	30	8,0	20	10	33
8,0	40	10,0	24	12	40
10,0	50	13,0	30	15	50

SIHGA®		Dimension	Secondary Beam	Assembly Dimensions	Shear	Force F ₁ -	1 pair	Shear	Force F ₁ -	2 pair	
	montage	pack	GoFix®X+	NT Height	m	NT Width min.	Char. Values*	Design Values**	NT Width min.	Char. Values*	Design Values**
	Art. No.	PU	d1 x L	min. [mm]	[mm]	[mm]	[kN]	[kN]	[mm]	[kN]	[kN]
	42066	150	6,5 x 195	140	70	50	10,88		85	21,77	
	42246	75	8,0 x 220	160	80	60	13,19		100	26,37	
	42256	75	8,0 x 245	180	90	60	14,76		100	29,51	
	42276	75	8,0 x 295	220	110	60	17,90		100	35,79	
	42286	75	8,0 x 330	240	120	60	20,09		100		0,00
	42296	75	8,0 x 375	270	135	60		15,89	100		31,78
	42306	75	8,0 x 400	290	145	60		15,89	100		31,78
	42316	75	8,0 x 430	310	155	60		15,89	100		31,78
	42326	75	8,0 x 480	350	170	60		15,89	100		31,78
	42666	50	10,0 x 300	220	110	75	22,15		125	44,29	
	42676	50	10,0 x 330	240	120	75	24,44		125	48,88	
	42686	50	10,0 x 360	260	130	75	26,73		125	53,46	
	42696	50	10,0 x 400	290	145	75		22,43	125		44,86
	42706	50	10,0 x 450	320	160	75		22,43	125		44,86
	42716	50	10,0 x 500	360	180	75		22,43	125		44,86
	42726	50	10,0 x 550	400	200	75		22,43	125		44,86
	42736	50	10,0 x 600	430	215	75		22,43	125		44,86



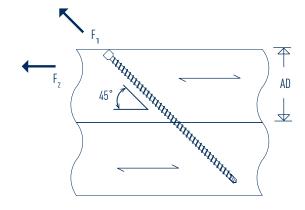


Subject to technical modifications and errors. Status of approval 05.2023 * characteristic values for measurement according to EC 5, bulk density $\rho k = 350 \text{ kg/m}^3$ [C24] ** design values according to EC 3 due to buckling [$\gamma m = 1.1 \text{ already considered}$]

L-GoFix® MS

SIHGA® Feature

design values	SIHGA® performs the calculation for you
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed
online calculation	at www.sihga.com (support reinforcement, notches, anchor beam, breakout, main beam - secondary beam connection)



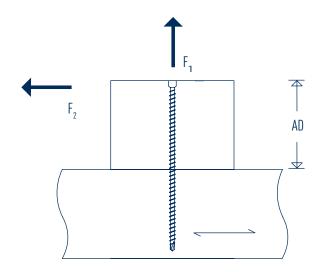
	SIHGA®		Dimension	Installation Part Thickness	Characteris	stic Values*
	montagep	ack	GoFix® X+	Wood	Tensile Force F ₁	Shear Force F ₂
	Art. No.	PU	d1 x L	AD [mm]	[kN]	[kN]
	42026	150	6,5 x 120	45	4,08	2,88
	42036	150	6,5 x 140	50	4,82	3,41
	42046	150	6,5 x 160	60	5,56	3,93
	42066	150	6,5 x 195	70	6,85	4,85
	42226	75	8,0 x 155	60	6,44	4,55
	42236	75	8,0 x 195	70	8,21	5,81
	42246	75	8,0 x 220	80	9,32	6,59
	42256	75	8,0 x 245	90	10,43	7,38
	42276	75	8,0 x 295	105	12,65	8,95
	42286	75	8,0 x 330	120	14,21	10,05
	42296	75	8,0 x 375	135	16,21	11,46
	42306	75	8,0 x 400	145	17,32	12,24
	42316	75	8,0 x 430	155	18,65	13,19
	42326	75	8,0 x 480	170	20,87	14,76
	42666	50	10,0 x 300	110	15,66	11,07
	42676	50	10,0 x 330	120	17,28	12,22
	42686	50	10,0 x 360	130	18,90	13,36
	42696	50	10,0 x 400	145	21,06	14,89
	42706	50	10,0 x 450	160	23,76	16,80
	42716	50	10,0 x 500	180	26,46	18,71
_	42726	50	10,0 x 550	195	29,16	20,62
	42736	50	10,0 x 600	215	31,86	22,53

Subject to technical modifications and errors. Status of approval 05.2023 * characteristic values for measurement according to EC 5, bulk density ρk = 350 kg/m³ [C24]





design values	SIHGA® performs the calculation for you
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed
online calculation	at www.sihga.com (support reinforcement, notches, anchor beam, breakout, main beam - secondary beam connection)



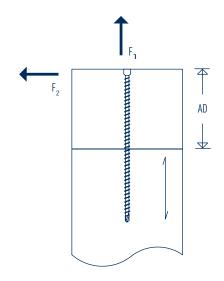
SIHGA®		Dimension	Installation Part Thickness	Characteristi	c Values 90°*
montagepa	ack	GoFix® X+	Wood	Tensile Force F ₁	Shear Force F ₂
Art. No.	PU	d1 x L	AD [mm]	[kN]	[kN]
42026	150	6,5 x 120	60	4,08	3,25
42036	150	6,5 x 140	70	4,82	3,43
42046	150	6,5 x 160	80	5,56	3,62
42066	150	6,5 x 195	100	6,85	3,94
42226	75	8,0 x 155	80	6,39	4,77
42236	75	8,0 x 195	100	8,17	5,21
42246	75	8,0 x 220	110	9,28	5,49
42256	75	8,0 x 245	125	10,39	5,77
42276	75	8,0 x 295	150	12,61	6,32
42286	75	8,0 x 330	170	14,16	6,71
42296	75	8,0 x 375	190	16,16	7,21
42306	75	8,0 x 400	200	17,27	7,49
42316	75	8,0 x 430	215	18,60	7,82
42326	75	8,0 x 480	240	20,82	8,37
42666	50	10,0 x 300	150	15,55	8,33
42676	50	10,0 x 330	170	17,17	8,73
42686	50	10,0 x 360	180	18,79	9,14
42696	50	10,0 x 400	200	20,95	9,68
42706	50	10,0 x 450	225	23,65	10,35
42716	50	10,0 x 500	250	26,35	11,03
42726	50	10,0 x 550	275	29,05	11,70
42736	50	10,0 x 600	300	31,75	12,38

Subject to technical modifications and errors. Status of approval 05.2023 * characteristic values for measurement according to EC 5, bulk density pk = 350 kg/m³ [C24]





design values	SIHGA® performs the calculation for you
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed
online calculation	at www.sihga.com (support reinforcement, notches, anchor beam, breakout, main beam - secondary beam connection)



montagepack GoFix® X+ Wood Tensile Force F ₁ Shear Force F ₂ Art. No. PU d1 x L AD [mm] [kN] [kN] 42026 150 6,5 x 120 60 1,22 1,50 42036 150 6,5 x 140 70 1,44 1,91 42046 150 6,5 x 160 80 1,67 1,97 42066 150 6,5 x 195 100 2,06 2,06 42226 75 8,0 x 195 100 2,45 2,75 42236 75 8,0 x 195 100 2,45 2,75 42246 75 8,0 x 220 110 2,78 2,83 42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42276 75 8,0 x 330 170 4,25 3,20 42286 75 8,0 x 375 190 4,85 3,35 423
42026 150 6,5 x 120 60 1,22 1,50 42036 150 6,5 x 140 70 1,44 1,91 42046 150 6,5 x 160 80 1,67 1,97 42066 150 6,5 x 195 100 2,06 2,06 42226 75 8,0 x 155 80 1,92 2,61 42236 75 8,0 x 195 100 2,45 2,75 42246 75 8,0 x 220 110 2,78 2,83 42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 <t< th=""></t<>
42036 150 6,5 x 140 70 1,44 1,91 42046 150 6,5 x 160 80 1,67 1,97 42066 150 6,5 x 195 100 2,06 2,06 42226 75 8,0 x 155 80 1,92 2,61 42236 75 8,0 x 195 100 2,45 2,75 42246 75 8,0 x 220 110 2,78 2,83 42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 440 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 <t< th=""></t<>
42046 150 6,5 x 160 80 1,67 1,97 42066 150 6,5 x 195 100 2,06 2,06 42226 75 8,0 x 155 80 1,92 2,61 42236 75 8,0 x 195 100 2,45 2,75 42246 75 8,0 x 220 110 2,78 2,83 42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42666 <
42066 150 6,5 x 195 100 2,06 2,06 42226 75 8,0 x 155 80 1,92 2,61 42236 75 8,0 x 195 100 2,45 2,75 42246 75 8,0 x 220 110 2,78 2,83 42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42666 50 10,0 x 330 170 5,15 4,19
42226 75 8,0 x 155 80 1,92 2,61 42236 75 8,0 x 195 100 2,45 2,75 42246 75 8,0 x 220 110 2,78 2,83 42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42236 75 8,0 x 195 100 2,45 2,75 42246 75 8,0 x 220 110 2,78 2,83 42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42246 75 8,0 x 220 110 2,78 2,83 42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42256 75 8,0 x 245 125 3,12 2,91 42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42276 75 8,0 x 295 150 3,78 3,08 42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42286 75 8,0 x 330 170 4,25 3,20 42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42296 75 8,0 x 375 190 4,85 3,35 42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42306 75 8,0 x 400 200 5,18 3,43 42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42316 75 8,0 x 430 215 5,58 3,53 42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42326 75 8,0 x 480 240 6,25 3,70 42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42666 50 10,0 x 300 150 4,67 4,07 42676 50 10,0 x 330 170 5,15 4,19
42676 50 10,0 x 330 170 5,15 4,19
/2/0/ E0 10.0 × 2/0 100 E // / 22
42686 50 10,0 x 360 180 5,64 4,32
42696 50 10,0 x 400 200 6,29 4,48
42706 50 10,0 x 450 225 7,10 4,68
42716 50 10,0 x 500 250 7,91 4,88
42726 50 10,0 x 550 275 8,72 5,09
42736 50 10,0 x 600 300 9,53 5,29

Subject to technical modifications and errors. Status of approval 05.2023 * characteristic values for measurement according to EC 5, bulk density pk = 350 kg/m³ [C24]





Equipment GoFix® X+



SIHGA® Feature GoFix® X+ Setting Jig

with GoFix® X+ 6.5 and 8.0 mm

YOUR Benefit

the professional installation aid, simplifies construction processes and saves time



GoFix® X+ Mounting Bracket

with GoFix® X+ 6.5 and 8.0 mm

the professional installation aid, simplifies construction processes and saves time



SIHGA® TIP:

GoFix® X+ can also be pre-drilled X+ 6.5 with Ø 4 mm, X+ 8.0 with Ø 5 mm.



System Kit GoFix® X+

•	
with GoFix® X+ 6.5 and 8.0 mm with varying lengths	the professional installation aid, simplifies construction processes and saves time
developed, patented and made in Austria	top European quality and added-value
contains 1 GoFix® X+ Setting jig with 4 GoFix® X+ Beam holders and GoFix® fastening screws	for the rational and precise installation of main/secondary beams
contains 4 GoFix® X+ Mounting brackets	for the rational and precise installation of secondary beams on struts
includes SIHGA® DUO-Bit and Systemstift®	time-saving, practical, precise, complete accessories enclosed



SIHGA® TIP:

The System Kit GoFix® X+ contains a setting jig and mounting bracket, completely and portably combined with all accessories for practicality.

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L-GoFix® MS

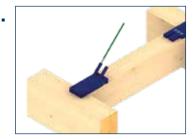
Application GoFix® X+

GoFix® X+ Setting Jig

1.



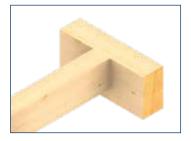
2.



3.

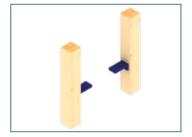


4.



GoFix® X+ Mounting Bracket

1.



2.



3.

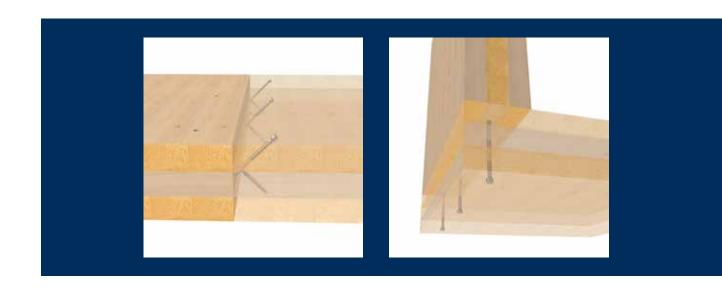


4.



Application GoFix® X+in Plywood Board

SIHGA® Feature	YOUR Benefit
optimised geometry of the drill bit	rapid attachment and simultaneous predrilling
screwing below 0 ° to the fibre allowed	can be installed in all layers and angles in plywood board
special cylinder head	infinitely countersinking without splitting effect
deep bit punching	prevents the SIHGAFIX® from slipping out



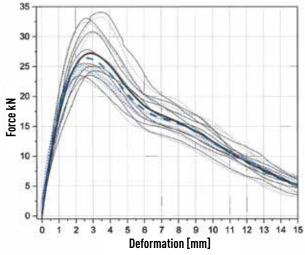
174 System Catalogue www.sihga.com

GoFix® X+ application by means of impact screwdriver

Tested by the University of Innsbruck

SIHGA® Feature	YOUR Benefit		
positive report for processing with impact screwdrivers	provides security		
graph below shows comparison of screw-in methods	comparing the different screw-in methods		
impact screwdriver brings benefits	less strain on the wrist, even when working overhead		

Extraction of the screw in relation to applied force





www.sihga.com System Catalogue 175



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YOUR Benefit

holds the screw head securely in the SIHGAFIX®	no more slippage with large screw sizes		
various adjustment options	fits cylindrical head- and countersunk head screws		
enhanced tool standard design	long life		
reduces effort	pressure on screw-in device no longer needed		
automatic reset upon contact with wood	makes numerous screw-in variations such as oblique screw-in possible in all situations, for example overhead installation		

SIHG	••	Dimension	for GoFix® Type
montag	ераск	GoFix® ESH 8	X+ / S+ / SH
Art. No.	PU	d x L	d [mm]
31446	1	40 x 120	8





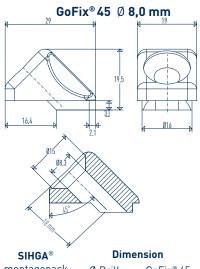
For simplified screw-in of GoFix® X+, S+ and SH, use screw-in assistance GoFix® ESH 8.



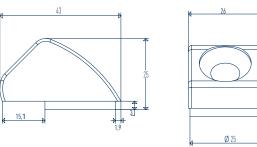


rapid, problem-free installation of the GoFix® 45 fixed 45° inclination for optimal tensile force uptake ideal in combination with the SIHGA® GoFix® S+ 8.0 pull-through prevented by the large countersunk and 10.0 mm fully threaded screw or GoFix® SH head seating area no special production needed with inclined saves time and money counterbore provides maximum flexibility the most varied metal tabs can be used including installation instructions enclosed accessories - practical and time-saving

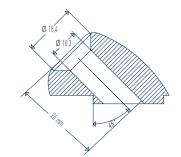
YOUR Benefit



GoFix® 45 Ø 10,0 mm



SIHGA®		Dimension		Installation Part	
montagepack		Ø Drill	GoFix® 45	Steel Thickness	Ø Steel Part Hole
Art. No.	PU	[mm]	[mm]	[mm]	[mm]
31582	10	8,0	29 x 19 x 19,5	≤ 5	17
31592	10	10,0	43 x 26 x 25	6 - 10	26



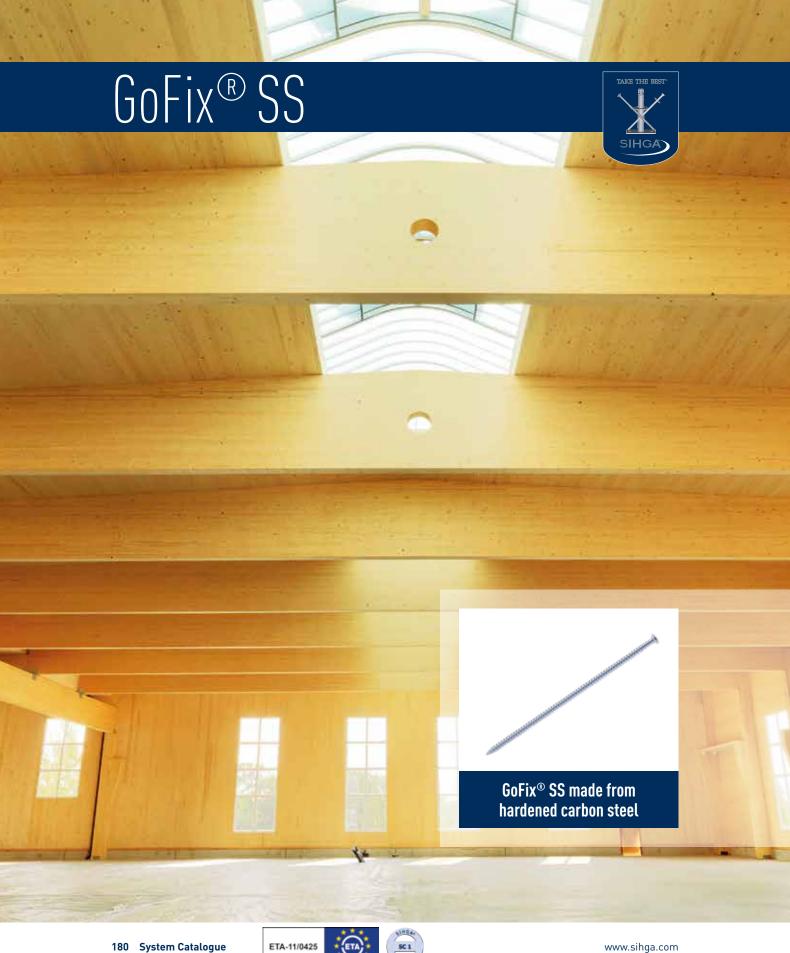






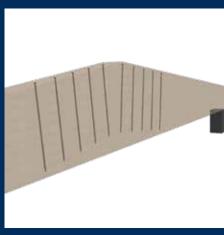
For effortless screw-in of GoFix® S+, a tangential-impact screwdriver to spare your wrist joint.





SIHGA® Feature	YOUR Benefit
extremely high thread load-bearing capacity of up to 50 kN and length up to 1000 mm	ideal for reinforcements in timber engineering and for large glued laminated timber beams or for fastening steel parts onto wooden beams, replaces threaded rods
made from hardened carbon steel	the permanent, secure and powerful fastening
additional pre-drilling, with GoFix® SS Ø 11.3 mm with 8.0 mm	for lightweight screw connections with low screw-in torque
including SIHGAFIX® and installation instructions	time-saving, practical, precise, complete accessories enclosed

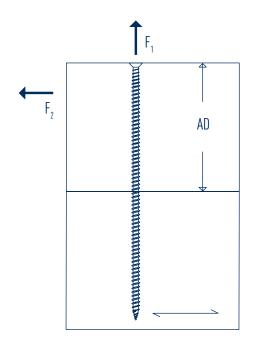


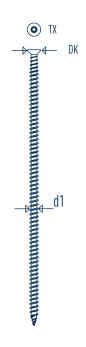


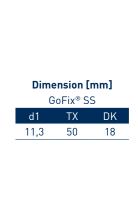


YOUR Benefit

design values	SIHGA® performs the calculation for you			
including SIHGAFIX® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® also screws into deep grooves			
online calculation	at www.sihga.com (support reinforcement, notches, anchor beam, breakout)			







SIHGA®		Dimension	Installation Part Thickness	Characteris	stic Values*
montagepa	montagepack		Wood	Tensile Force F ₁	Shear Force F ₂
Art. No.	PU	d1 x L	AD [mm]	[kN]	[kN]
25336	50	11,3 x 300	150	18,90	12,33
25346	50	11,3 x 340	170	21,51	12,98
25206	50	11,3 x 380	190	24,11	13,63
25216	50	11,3 x 420	210	26,72	14,28
25226	50	11,3 x 460	230	29,33	14,94
25236	50	11,3 x 500	250	31,93	15,21
25246	50	11,3 x 540	270	34,54	15,21
25256	50	11,3 x 580	290	37,15	15,21
25266	50	11,3 x 620	310	39,75	15,21
25276	50	11,3 x 660	330	42,36	15,21
25286	50	11,3 x 700	350	44,97	15,21
25296	50	11,3 x 750	375	48,23	15,21
25306	50	11,3 x 800	400	50,00	15,21
25316	50	11,3 x 900	450	50,00	15,21
25326	50	11,3 x 1000	500	50,00	15,21

^{*} characteristic values for dimensioning according to EC 5 and strength class C 30 (ρk 380 kg/m³)

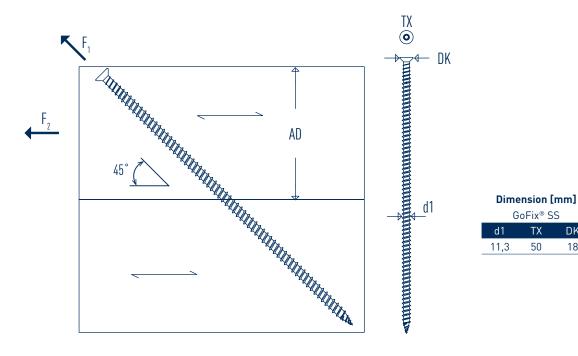




SIHGA® Feature

YOUR Benefit

design values	SIHGA® performs the calculation for you			
including SIHGAFIX® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® also screws into deep grooves			
online calculation	at www.sihga.com (support reinforcement, notches, anchor beam, breakout)			



SIHGA®		Dimension	Installation Part Thickness	Characteristic Values*	
montagepa	ack	GoFix® SS	Wood	Tensile Force F ₁	Shear Force F ₂
Art. No.	PU	d1 x L	AD [mm]	[kN]	[kN]
25336	50	11,3 x 300	110	18,90	13,36
25346	50	11,3 x 340	120	21,51	15,21
25206	50	11,3 x 380	140	24,11	17,05
25216	50	11,3 x 420	150	26,72	18,89
25226	50	11,3 x 460	170	29,33	20,74
25236	50	11,3 x 500	180	31,93	22,58
25246	50	11,3 x 540	200	34,54	24,42
25256	50	11,3 x 580	210	37,15	26,27
25266	50	11,3 x 620	220	39,75	28,11
25276	50	11,3 x 660	240	42,36	29,95
25286	50	11,3 x 700	250	44,97	31,80
25296	50	11,3 x 750	270	48,23	34,10
25306	50	11,3 x 800	290	50,00	35,36
25316	50	11,3 x 900	320	50,00	35,36
25326	50	11,3 x 1000	360	50,00	35,36

^{*} characteristic values for dimensioning according to EC 5 and strength class C 30 (pk 380 kg/m³)

DK

18

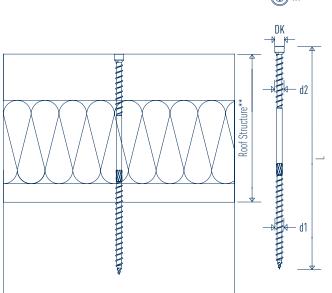




GoFix® SH L-GoFix® MS

SIHGA® Feature **YOUR Benefit**

fastens soft insulation materials for on-rafter insulation	also for insulation material with a compressive stress below 50 kPa; no pressure on the insulation
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed
design values	SIHGA® performs the calculation for you
online calculation	at www.sihga.com (on-rafter insulation)

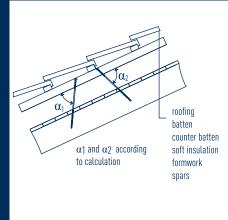


Dimension [mm]

	GoFi	x [®] ZS	
d1	d2	TX	DK
8,0	8,0	40,0	10,0

SIHGA® montagepack		Dimension GoFix® ZS	Roof Structure** Thickness [mm]
Art. No.	PU	d1 x L	from
26996*	75	8,0 x 165	75
27006*	75	8,0 x 195	100
27116	75	8,0 x 225	130
27126	75	8,0 x 235	140
27136	75	8,0 x 255	155
27146	75	8,0 x 275	175
27156	75	8,0 x 302	200
27166	75	8,0 x 335	230
27176	75	8,0 x 365	255
27186	75	8,0 x 397	285
27196	75	8,0 x 435	320









^{*} design with plate head, DK = 16 mm ** at thread anchoring depth in rafters of 80 mm



SIHGA® Feature

YOUR Benefit

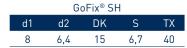
new screw geometry	no pre-drilling, quick installation
shortened thread length	high extraction values using shorter screw
special screw tip	assembly in construction beech without pre-drilling
special head geometry and milling ribs	a perfect, clean screw pattern
design values	SIHGA® performs the calculation for you
wide use possible without pre-drilling	in solid wood and construction beech
special geometry	high load-bearing capacity for efficient connections

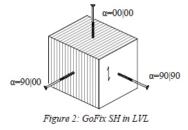
SIHG	Α®	Dimension In	stallation Pa	rt	Const	ruction Beech	n Character	istic Values*	
montage	pack	GoFix® SH	AD		Tensile	Force F ₁ [kN]		Shear For	ce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread 90/90	Thread 90/00	Thread 00/00	Wood-Wood 90/90	Steel-Wood 90/90
29426	75	8,0 x 100	20	9,80	24,62	18,24	18,24	6,62	10,96
29436	75	8,0 x 120	40	9,80	24,62	18,24	18,24	8,23	10,96
29446	75	8,0 x 140	60	9,80	24,62	18,24	18,24	8,47	10,96
29456	75	8,0 x 160	80	9,80	24,62	18,24	18,24	8,47	10,96
29466	75	8,0 x 180	100	9,80	24,62	18,24	18,24	8,47	10,96
29476	75	8,0 x 200	120	9,80	24,62	18,24	18,24	8,47	10,96
29486	75	8,0 x 220	140	9,80	24,62	18,24	18,24	8,47	10,96
29496	75	8,0 x 240	160	9,80	24,62	18,24	18,24	8,47	10,96

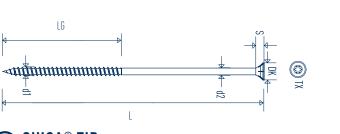
In addition to the cases of failure according to Johansen, other cases of failure are possible and are to be taken into consideration. Subject to technical modifications and errors. Status of approval 12.2022

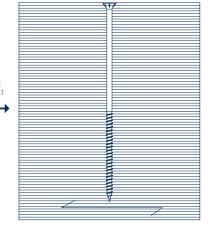
* characteristic values for measurement according to EC 5,
bulk density according to ETA-14/0354 Pollmeier BauBuche (pk 730 kg/m³).

Dimension [mm]









SIHGA® TIP:

Use electric screwdriver device for assembly without pre-drilling. For easier screw-in, use GoFix® ESH 8. Use a washer for higher head pull-through values.















SIHGA® Feature	YOUR Benefit			
fastens wood to wood without pre-drilling and without countersinking	prevents crack formation or splitting of timbers, even for panel materials, saves work time, additional pre-drilling extends the life of the wood			
also attaches coverings made of hard and thermowood	results in a perfect appearance, these coverings should additionally be pre-drilled			
Multi-stage head with a small head diameter	high constructional wood protection and exquisite surface through flat head ending			
special thread pitch with sharp thread flanks	high extraction value			
SIHGA® tip with special form	guarantees fast screw attachment without developing cracks			
SIHGA® milling ribs on the shaft	easy, rapid screw-in and optimal seating in wood are guaranteed			
made of hardened stainless steel	non-corrosive attachment and is extremely break- proof			
also available in black (SC 9 coating) and antique (SC 11 coating) appearance	optimally useable on dark materials or for larch, Douglas fir and Bangkirai			
including SIHGAFIX® stainless steel, Systemstift® and installation instructions	time-saving, practical, precise, all accessories included, SIHGAFIX® stainless steel prevents extraneous rust and also enables screw connections in deep grooves			















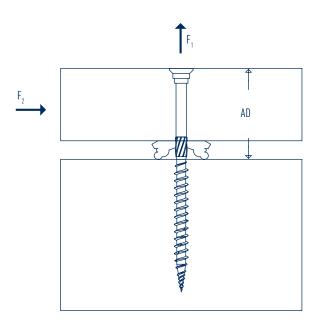
YOUR Benefit

design values

SIHGA® performs the calculation for you

including SIHGAFIX® stainless steel, Systemstift® and installation instructions

time-saving, practical, precise, all accessories included, SIHGAFIX® stainless steel prevents extraneous rust and also enables screw connections in deep grooves





Dimension [mm] L-GoFix® MS DK KS 1 KS 2 4,0 15 5,5 4,0 3,7 4,5 20 6,9 5,2 4,2

SIH	GA ®	Dimension	Installation Part	Characteristic Values**			
montag	gepack	L-GoFix® MS	AD	Tensile Fo	orce F ₁ [kN]	Shear Force F ₂ [kN]	
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
24106	500	4,0 x 30	12	0,36	1,01	0,51	1,01
24116	500	4,0 x 35	14	0,36	1,22	0,59	1,14
24126	500	4,0 x 40*	16	0,36	1,42	0,68	1,22
24136	500	4,0 x 45	18	0,36	1,62	0,76	1,27
24146	500	4,0 x 50*	20	0,46	1,82	0,85	1,32
24156	500	4,0 x 60*	24	0,46	2,16	1,02	1,40
24226	400	4,5 x 40*	16	0,48	1,55	0,74	1,39
24236	400	4,5 x 45*	18	0,48	1,77	0,83	1,49
24246	400	4,5 x 50*	20	0,61	1,99	0,92	1,54
24266	400	4,5 x 60*	24	0,61	2,36	1,11	1,64
2/276	300	4 5 x 70*	28	N 61	2 72	1 29	1 73

Subject to technical modifications and errors. Status of approval 12.2022











^{*} also available with SC 9 coating

^{**} characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ (Larch)

SIHGA® Feature

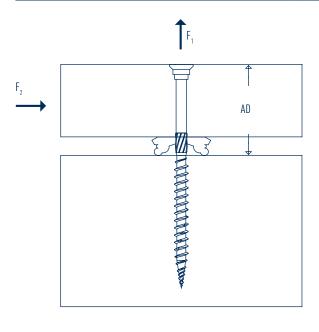
design values

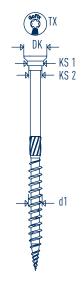
including SIHGAFIX® stainless steel, Systemstift® and installation instructions

YOUR Benefit

SIHGA® performs the calculation for you

time-saving, practical, precise, all accessories included, SIHGAFIX® stainless steel prevents extraneous rust and also enables screw connections in deep grooves





Dimension [mm]								
L-GoFix® MS								
d1	TX	DK	KS 1	KS:				
5,0	25	8,5	6,0	4,8				
6,0	30	11,5	7,2	5,8				
	d1 5,0	d1 TX 5,0 25	L-GoFix® d1 TX DK 5,0 25 8,5	L-GoFix® MS d1 TX DK KS 1 5,0 25 8,5 6,0				

SIHG	A ®	Dimension	Installation Part	Characteristic Values**			
montage	epack	L-GoFix® MS	AD	Tensile Force F ₁ [kN]		Shear Fo	rce F ₂ [kN]
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
24316	200	5,0 x 45*	18	0,76	1,82	0,89	1,65
24326	200	5,0 x 50*°	20	0,95	2,14	0,99	1,78
24336	200	5,0 x 60*°	24	0,95	2,53	1,19	1,88
24346	200	5,0 x 70*	28	0,95	2,93	1,39	1,98
24356	200	5,0 x 80*	32	0,95	3,72	1,59	2,18
24366	200	5,0 x 90*	36	0,95	4,12	1,79	2,27
24376	200	5,0 x 100*	40	0,95	4,51	1,97	2,37
24406	100	6,0 x 70	28	1,64	3,31	1,58	2,51
24416	100	6,0 x 80	32	1,64	4,21	1,80	2,73
24426	100	6,0 x 90	36	1,64	4,66	2,03	2,85
24436	100	6,0 x 100	40	1,64	5,10	2,25	2,96
24446	100	6,0 x 120	50	1,64	5,10	2,45	2,96
24456	100	6,0 x 140	70	1,64	6,00	2,69	3,18
24466	100	6,0 x 160	90	1,64	6,00	2,69	3,18

Subject to technical modifications and errors. Status of approval 12.2022

^{**} characteristic values for dimensioning according to EC 5 and for strength class pk 490 kg/m³ (Larch)



SIHGA® TIP:

For surface-flush rotation, fast and secure, we recommend TerrassenFix® Depth Limiter TTB.









^{*} also available with SC 9 coating

o also available with SC 11 coating

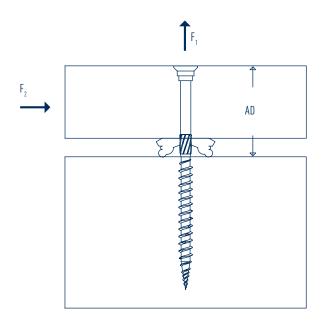
SIHGA® Feature YOUR Benefit

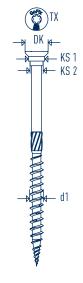
Made from A2 stainless steel	stands out thanks to its good corrosion resistance and is best used in moderate, corrosive environments
multi-stage head with small head diameter	high constructive wood protection and refined surface as a result of the plane head
special thread angle with sharp thread edges	high extraction value
SIHGA® point with special shape	guarantees fast setting of screws without splitting
SIHGA® ribs on shaft and slip coating	light, fast rotation and optimum fit in the wood are guaranteed
including SIHGAFIX® stainless steel, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® stainless steel prevents rust from external sources and also screws into deep grooves

Because of the material properties it is strongly advised to generally pre-drill the add-on part (screw diameter + 0.5 -1 mm). The substructure, due to the different bulk densities and moisture, also in conifers, should in most cases be pre-drilled over the entire thread length with \emptyset 3 mm. If in doubt, we recommend carrying out pretrials









Dimension [mm] L-GoFix® MS A2 KS 1 KS 2 DK 20 6,9 5,2 4,2 5,0 25 8,5 6,0 4,8

SIHG	A®	Dimension	Installation Part Chara		Characteris	haracteristic Values**		
montage	epack	L-GoFix® MS A2	AD	Tensile Fo	rce F ₁ [kN]	Shear Fo	rce F ₂ [kN]	
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood	
22226	400	4,5 x 40	16	0,48	1,55	0,74	1,15	
22236	400	4,5 x 45	18	0,48	1,77	0,83	1,21	
22246	400	4,5 x 50	20	0,61	1,99	0,92	1,26	
22266	400	4,5 x 60	24	0,61	2,36	1,07	1,35	
22276	300	4,5 x 70	28	0,61	2,72	1,22	1,45	
22316	200	5,0 x 45	18	0,76	1,82	0,89	1,36	
22326	200	5,0 x 50	20	0,95	2,14	0,99	1,44	
22336	200	5,0 x 60	24	0,95	2,53	1,18	1,54	
22346	200	5,0 x 70	28	0,95	2,93	1,33	1,64	
22356	200	5,0 x 80	32	0,95	3,72	1,57	1,84	
22366	200	5,0 x 90	36	0,95	4,12	1,67	1,94	
22376	200	5,0 x 100	40	0,95	4,30	1,72	1,98	



SIHGA® TIP:

When using coatings such as oils, glazes and pre-greying, it is essential to consult the coating manufacturer. As a rule, the manufacturer specifies the minimum material quality of the binding agent. If the manufacturer is not known, we recommend material quality A4 (L-BohrFix® MB A4).



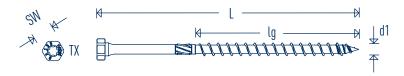


Subject to technical modifications and errors. Status of approval 12.2022 ** characteristic values for dimensioning according to EC 5 and for strength class ρk 490 kg/m³ (Larch)



YOUR Benefit

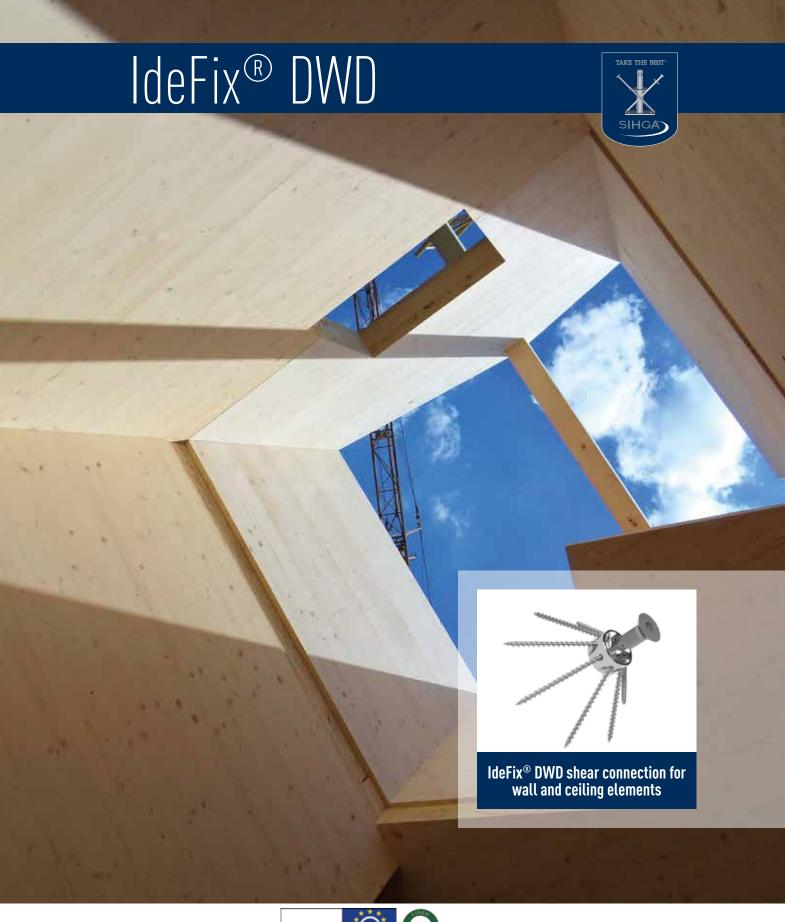
made in Austria	top European quality and added-value
high load bearing wood-concrete connection screw	connects wooden beam ceilings, dowel beam ceilings or panel ceilings and the top concrete layer to optimise the strength with limited structural height
diverse areas of application, economical and cost- effective	old building renovation (strengthening wooden beam ceilings), building height extensions (load-distributing ceilings for attics), new buildings (high load bearing wood-concrete compound structures)
optimises properties of simple wooden ceilings	greater strength and rigidity, fire protection, better vibration behaviour, noise protection, thermal insulation
optimised compared to purely concrete ceilings	better eco-balance, low inherent weight, degradable
Hobet® thread	fast screw connection, low tightening torque, minimises splitting effect
Hobet® bit	time savings due to rapid attachment, especially at 45° screw angle, easy to work with
comprehensive calculation of load capacities, fire protection, serviceability and vibration	complicated calculations are superfluous - SIHGA® performs the calculation for you



SIHGA®		Dimer	Dimension		ive	Screwing Angle
objektp	oack®	Hobet®	Hobet® lg SV		TX	in the Wood
Art. No.	PU	d1 x L	[mm]			[°]
30879	400	8,0 x 155	100	12	40	90
30889	400	8,0 x 205	130	12	40	45 / 90

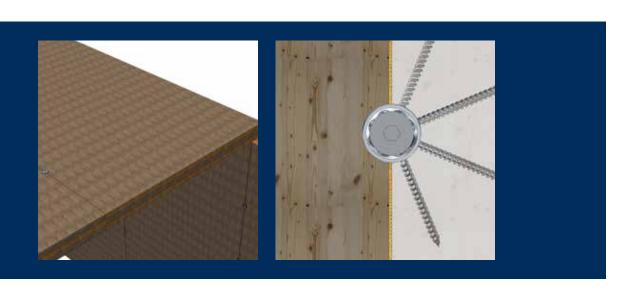








SIHGA® Feature **YOUR Benefit** proven three-dimensional load uptake through connects solid wood elements in parallel and geometry and 45° screw connection across corners tested in plywood boards - as well as solid wood shear connections for wood elements of all sizes elements and types simple assembly, only one hole per connector this hole can be factory-made or made on-site flush-mounted in construction no processing of further wall layers needed design values SIHGA® performs the calculation for you



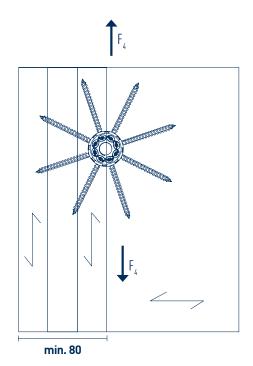
For parallel joints, drill with IdeFix® Drill IB HMB together with IdeFix® IBG Drilling Template. For

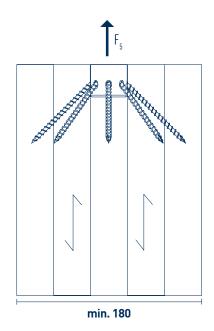




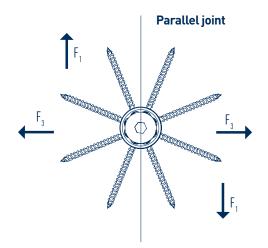
SIHGA® TIP:

corner joints drill only with IdeFix® Drill IB HMB.







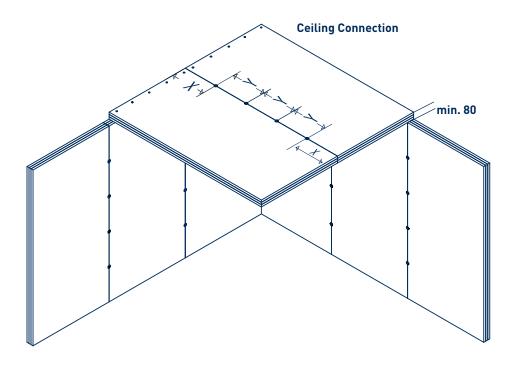


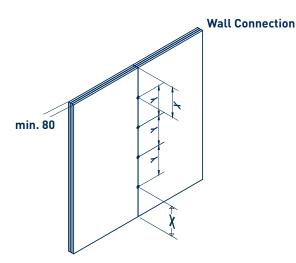
SIHGA® Dimension Dimension Dimension		Dimension	Parallel Characteristic Value	Corner Connection Characteristic Value		
IdeFix®	DWD	IFK	GoFix® HK	Pressure Bulkhead	F ₁	F ₂
Art. No.	PU	d x h	d x L	d x L	[kN]	[kN]
28896	5	30 x 20	5,0 x 80	12 x 20	14,30	6,33
28906	5	40 x 25	6,0 x 100	16 x 25	20,36	8,99

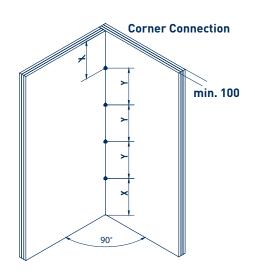
SIHG	4 ®	Dimension	Dimension	Dimension		Corner Connection Characteristic Value	Extraction Characteristic Value
IdeFix® l	DWD	IFK	GoFix® HK	Pressure Bulkhead	F_3	F ₄	F ₅
Art. No.	PU	d x h	d x L	d x L	[kN]	[kN]	[kN]
28896	5	30 x 20	5,0 x 80	12 x 20	8,27	12,61	31,66
28906	5	40 x 25	6,0 x 100	16 x 25	11,75	20,36	44,98

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Application







Minimum Axis Spacings

Тур	Χ	Υ
IdeFix® DWD	[mm]	[mm]
IFK 308	80	80
IFK 410	100	100

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YOUR Benefit

even in end-grain wood, IdeFix® IF transfers extremely high tensile and shearing (transverse) forces, up to 101.6 kN per fastening point
three-dimensional load attachment through geometry and 45° screw connection for normal and angled connections

the heavy load connection with small space requirement and small axial and edge distances

the range of applications for wood construction is almost unlimited

for horizontal connections, vertical connections, angled connections, multiple connections in single and multiple rows

IdeFix® IF is the ideal problem solver - even for grain-cut connections

integrated anti-rotation lock

thanks to the geometry, rotation of the timber, for example columns, is prevented; during installation it automatically presses into the wood being connected

can be re-tightened at any time through metric internal thread M 12, M 16, M 20 installed invisibly

IdeFix® IF can be re-tightened when installed

perfect look and high fire protection advantage

enables small edge and axial distances modular construction, also for multiple use possible allows the simple installation of multiple IdeFix® IF

can also be installed as pin attachment, including antirotation lock

connection can be loosened and fixed as often as required, ideal for seasonal (temporary) buildings the wood being connected also has to be drilled;

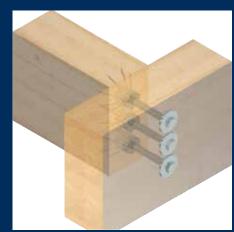
easy installation, only insert in hole with 30, 40 or 50 mm diameter and depth

minimises the weakening of timber despite the pin attachment this drilling can be performed in the factory or on-site

tensile force may be statically combined with transverse force

a major and simple security advantage, also with angled connections







 $\mathsf{IdeFix}^{\texttt{@}}\,\mathsf{IFD}$ for even higher tensile loads with double the number of screws.







YOUR Benefit

includes SIHGAFIX®, GoFix® HK screws and installation instructions

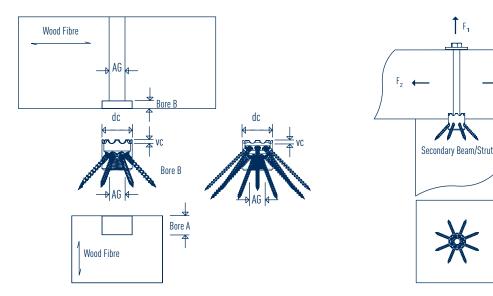
time-saving, practical, precise, complete accessories enclosed

design values

SIHGA® performs the calculation for you

Dimension	Dimension	Connection		Tensile Force Transverse Force Connection Connection*			Locking Device
IdeFix® IF/IFD	dc	Thread	Во	Bore [mm]		re [mm]	VC
Туре	[mm]	AG	Α	В	Α	В	[mm]
304/306/308	30	M 12	27	0	20	7	3
406/408/410	40	M 16	35	0	25	10	5
509	50	M 20	45	0	30	15	5
508/510	50	M 20	45	0	35	10	5

 $[\]ensuremath{^*}$ for multiple joints, the drill hole B is increased by the anti-twist protection vc



SIHG	SIHGA®		nsion	System S	Screw	Secondary Beam / Strut		Characteris	stic Values*
montage	pack	IdeFix [®]	® IF/IFD	GoFix® HK	Pieces	Edge / axis distance	Height/Width	Tensile F ₁	Shear F ₂
Art. No.	PU		Туре	[mm]	Stk.	[mm]	[mm]	[kN]	[kN]
28806	24	IF	304	5,0 x 40	8	50	100	17,0	10,1
28866	24	IF	306	5,0 x 60	8	60	120	25,6	12,3
28816	24	IF	308	5,0 x 80	8	70	140	32,4	13,8
28826	12	IF	406	6,0 x 60	8	60	120	29,0	13,0
28886	12	IF	408	6,0 x 80	8	80	160	37,9	18,8
28836	12	IF	410	6,0 x 100	8	90	180	45,6	20,5
28846	6	IF	509	8,0 x 90	8	80	160	56,0	20,5
28856	6	IFD	508	6,0 x 80	16	80 / 160	160	71,9	20,5
28876	6	IFD	510	6,0 x 100	16	100 / 200	200	87,3	30,7

^{*} characteristic values for dimensioning according to EC 5 and strength class C 24 [pk 350 kg/m^3] The values refer exclusively to the IdeFix connection to wood. Screw bolts and washers must be verified separately.



For drilling by hand, we recommend the IdeFix® Drill Gauge IBL with drill.

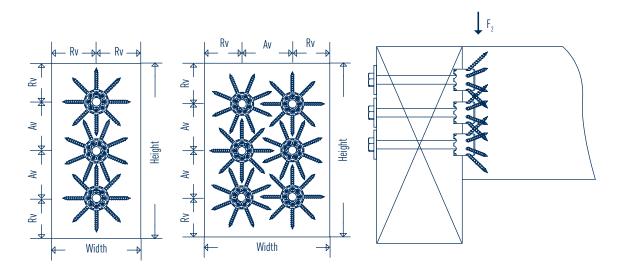




YOUR Benefit

design values

SIHGA® performs the calculation for you



Edge and Axial Distances

IdeFix® IF

Туре	Rv	Av
304	50	50
406	60	60
509	80	80

SIHG	A®	Туре		ndary am	Number	Characteristic Values*		ndary am	Number	Characteristic Values*
montage	epack	$\textbf{IdeFix}^{\text{@}}$	Width	Height	Connector	Transverse Force F_2	Width	Height	Connector	Transverse Force F ₂
Art. No.	PU	IF	[mm]	[mm]	Pieces	[kN]	[mm]	[mm]	Pieces	[kN]
28806	24	304	100	150	2	20,20	150	150	4	40,40
28826	12	406	120	180	2	26,00	180	180	4	52,00
28846	6	509	160	240	2	41,00	240	240	4	82,00
28806	24	304	100	200	3	30,30	150	200	6	60,60
28826	12	406	120	240	3	39,00	180	240	6	78,00
28846	6	509	160	320	3	61,50	240	320	6	123,00
28806	24	304	100	250	4	40,40	150	250	8	80,80
28826	12	406	120	300	4	52,00	180	300	8	104,00
28846	6	509	160	400	4	82,00	240	400	8	164,00
28806	24	304	100	300	5	50,50	150	300	10	101,00
28826	12	406	120	360	5	65,00	180	360	10	130,00
28846	6	509	160	480	5	102,50	240	480	10	205,00

^{*} characteristic values for dimensioning according to EC 5 and strength class C 24 (pk 350 kg/m³)

The values refer exclusively to the IdeFix connection to wood. Screw bolts and washers must be verified separately.



SIHGA® TIP:

For multiple drilling by hand, we recommend the IdeFix $^{\circ}$ Drill Template IBS with drill. Always drill through holes for the threaded screws from the IdeFix $^{\circ}$ side.



System Kit IdeFix® IF HMB

SIHGA® Feature

YOUR Benefit

for all IdeFix® IF and IFD (excluding IFD 510)

the professional installation aid, simplifies construction processes and saves time

contains 1 IdeFix® Drill Gauge IBG, 1 IdeFix® Drill IB HMB, 1 IdeFix® Drill Template IBS, all GoFix® fastening screws, Allen key

everything is professionally and rationally protected and packed in a case

including Systemstift® and installation instructions

time-saving, practical, precise, complete accessories enclosed







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IdeFix® Drill IB HMB

SIHGA® Feature

IdeFix® Drills IB HMB made of high-quality steel with exchangeable hard metal cutting inserts

 $\mathsf{IdeFix}^{\circledcirc}$ Drills IB HMB with optimised geometry and thread tip

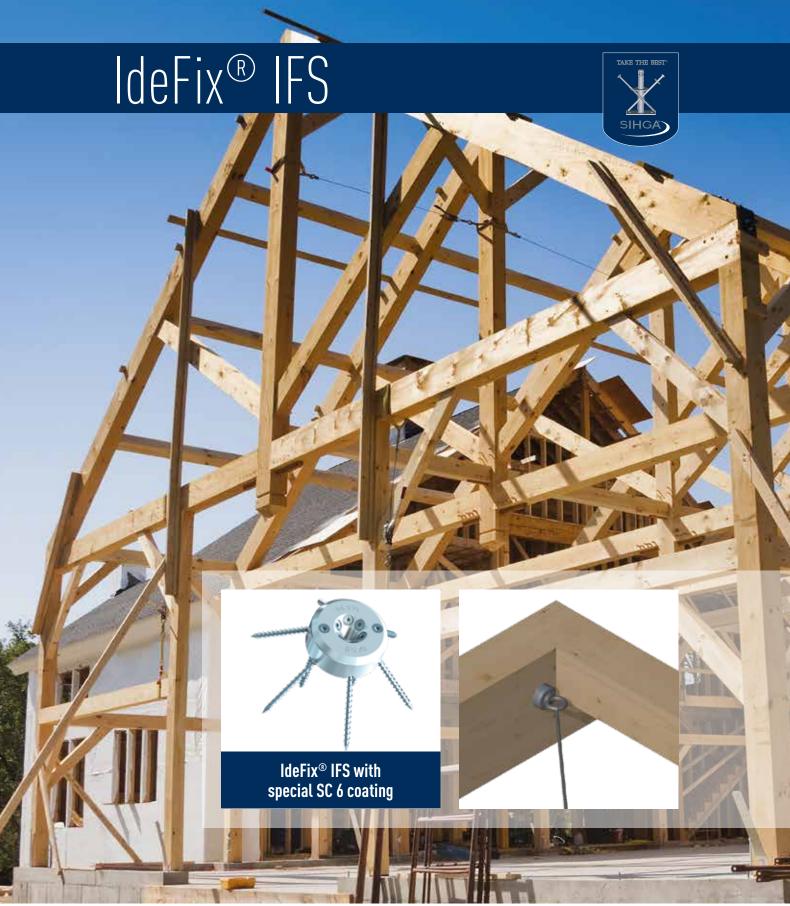
YOUR Benefit

for permanent use of the drill without downtime for re-sharpening

independent feeding and centring of the drill without effort at different fibre directions



www.sihga.com System Catalogue 205

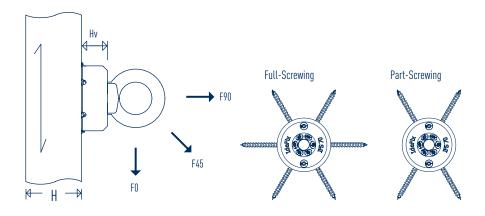




YOUR Benefit

for heavy-load connections perpendicular to the grain	the usual complicated drilling, grooving or special production of steel parts can be omitted
three-dimensional load attachment through geometry and 45° screw connection with integrated transverse strengthening	the range of applications in wood construction is almost unlimited, even for applications where conventional wood screws are not sufficient
for fastening wind bracing, anchors against high wind loads and mountings of various kinds	IdeFix® IFS is the simple, secure solution
includes SIHGAFIX®, GoFix® HK screws and installation instructions	time-saving, practical, precise, complete accessories enclosed
calculation	SIHGA® performs the calculation for you

SIHG	A ®	ldeF	ix®	Wood Dim	nension	Angle	Characteristi	ic Values [kN]	System Screw
montage	epack	IF	S	Height (H)	Width	To the Grain	Screw	Pattern	GoFix® HK
Art. No.	PU	Туре	Hv	[mm]	[mm]	[Grad]	Voll	Teil	d1 x L
29046	6	710	28	80	110	F 0°	-	5,66	6,0 x 100
29046	6	710	28	80	180	F 0°	8,50	-	6,0 x 100
29046	6	710	28	80	110	F 45°	-	7,90	6,0 x 100
29046	6	710	28	80	180	F 45°	11,40	-	6,0 x 100
29046	6	710	28	80	110	F 90°	-	17,00	6,0 x 100
29046	6	710	28	80	180	F 90°	25,50	=	6,0 x 100





If required, order the high-strength, tested ring screw at once.

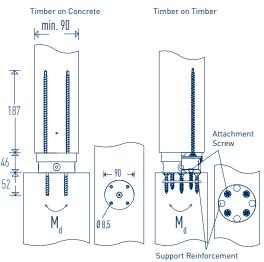






YOUR Benefit

fastenings for fence and railing posts	quick, simple and safe installation of posts
ideally suited for fences and privacy walls	offers extensive stability and bending stiffness
stepless and easily accessible incline adjustment up to 4 degrees in all directions	straight-lined, flush appearance of the posts without complex compensation panels, applicable to 15 cm concrete width
no slotting or milling necessary in the factory	simply fit the accessories supplied
no protruding steel plates, which need to be milled out with fence or balcony elements	plain and simple, aesthetically pleasing, can be (re-)adjusted at any time, no drill holes, pre-assembling possible
fastening into the posts only from below	no side insertion of screws necessary, which become an entry point for water
includes SIHGAFIX®, BeziFix® Anker ZF for timber on concrete or GoFix® S+ for timber on timber	time-saving (up to 70 %), practical, precise, complete accessories enclosed



SIHGA	SIHGA® Dimension		GoFix® S+ Post Attachment	BeziFix® Anchor ZF Concrete Attachment	Max. Moment		
montage	pack	Pfalu®	d1 x L	d1 x L	M_{d}		
Art. No.	PU	Øxh	[mm]	[mm]	[kNm]		
43526	5	90 x 46	8,0 x 195	7,5 x 60	1,50		
* tested cor	* tested concrete quality C 35/45 unreinforced						

SIHGA®		Dimension	GoFix® S+ Post Attachment	GoFix® S+ Attachment to Wood incl. Support Reinforcement	Max. Moment	
montage	oack	Pfalu® S+	d1 x L	d1 x L	M_{d}	
Art. No.	PU	Øxh	[mm]	[mm]	[kNm]	
/252/	-	00 v / /	0.0 v 105	0.0 v 125	1 25	

Example: 100 km / h wind speed closed area max. 80 %

Fence Height	Field Width*
[m]	[m]
1,8	1,7
1,5	2,4
1,2	3,8
1,0	5,4

^{*} these distances apply only to the specified boundary conditions in residential areas



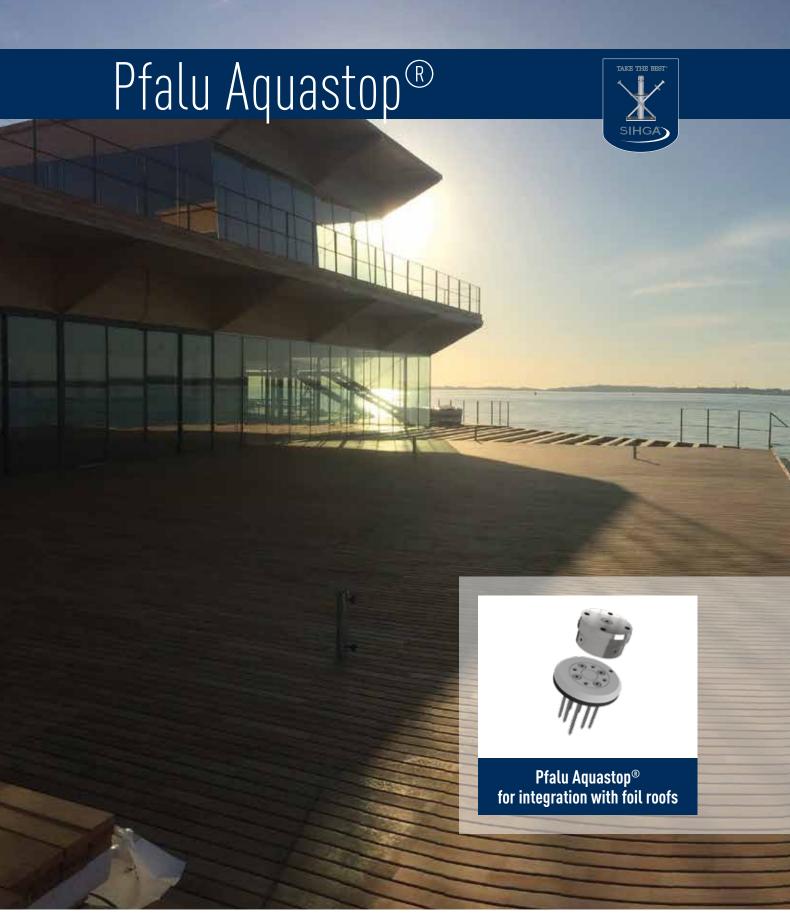




SIHGA® TIP:

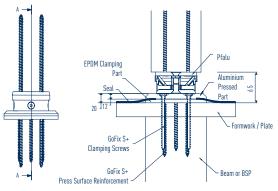
With BeziFix $^{\otimes}$ SR II on natural stone and GoFix $^{\otimes}$ S + screws also for fixing on wooden background. To prevent pressing in the wood we recommend an additional support reinforcement.

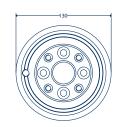




YOUR Benefit

fastening system for railing uprights on flat roof waterproofing	quick, simple and safe installation
ideally suited for railings and screening walls	offers extensive stability and bending stiffness
stepless and easily accessible inclination adjustment up to 4° in all directions	straight-lined, flush appearance of posts without complex compensation
pressing surface reinforcement using GoFix® S+	use on wood beams and solid wood ceilings and BSP systems
valve for leak testing	reliable connection and sealing, system can be serviced
combinable with various sealants	fastened to PVC, EPDM and even sheet metal
sealants are clamped-in	later installation in existing waterproofing also possible
including Pfalu®, SIHGAFIX®, GoFix® S+ and all seals	time-saving, practical, precise, all accessories included







SIHGA®	Ð	Dimension	Dimension	GoFix® S+ Underground	GoFix® S+ Pressed Piece	GoFix® S+ Pfalu®	Max.
montagep	ack	Pfalu®	Aquastop	d x L	d x L	d x L	Torque
Art. No.	PU	d x h	d x h	[mm]	[mm]	[mm]	[kNm]
43546	5	90 x 46	130 x 20	8,0 x 125	8,0 x 155	8 x 195	1,25





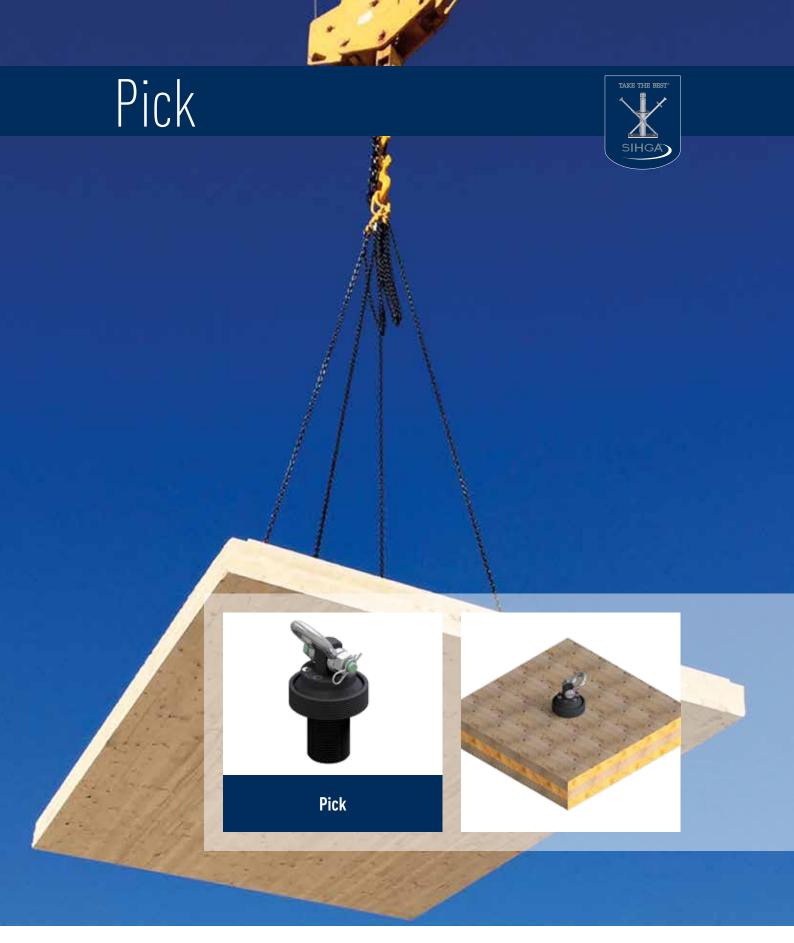


SIHGA® TIP:

For waterproofing testing use leak spray and an air pump.







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SIHGA® Feature **YOUR Benefit** load attachment for lifting glued laminated timber, glued capacity up to 1250 kg per fastening point cross laminate timber and solid timber made, developed and patented in Austria from highlocal quality and reliability, Q&T steel for permanent, quality steel robust long life lift by drilling a blind hole (Ø 50 mm, depth 70 mm) visible quality of the surfaces is not impaired, no fastening screws needed Pick Drill HMB can be combined with the easy, safe compliance with the drill depth, precise drilling IdeFix® Drill Gauge IBG at 90° safe and simple attachment attached with a few actions, the attachment does not have to be aligned versatile in application on the back (from panel thickness of 90 mm), side and transom-side for all kinds of support low-maintenance annual test together with personal protective equipment according to Occupational Health and Safety Directive possible long service life 16,000 load cycles (according to EN 13155:2020) safety tested – accompanied by TÜV avoidance of safety risks, diverse application areas and ambient conditions tested Now NEW: Ultrasonic inspection for your SIHGA PICK annual safety assessment according to the operating instructions, including ultrasonic testing Now NEW: SIHGA Pick calculation in hsbcad to make planning and use even easier and safer, the SIHGA Pick lifting system was fully implemented in hsbcad for HRW and BSP www.hsbcad.com

Important note: The drill hole must not be used for lifting more than six times.

SIHGA® System Kit Pick HMB Art. No. 49223

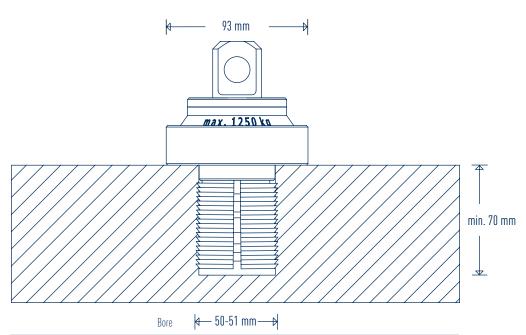




SIHGA® TIP:

Pick Deck closes the borehole, e.g. for sound insulation and fire protection requirements.

www.sihga.com System Catalogue 213



Pick Load Table							
	Beam Di	mension	Ŷ	Ŷ			
Beam	min. Height	min. Width	2 Attachment Points 0°*	2 Attachment Points 45°			
	[mm]	[mm]	[kg]	[kg]			
BSH	200	140	2.500	1.370			
KVH e.g. framed wall	60	140	1.800	1.370			
•							

	Panel Dimension		Ĵ	Ŷ
Glued ceiling panels BSP/ CLT (glue laminate		min. Length and Width	3 Attachment Points 45°	4 Attachment Points 45° (only with rocker)
timber)	[mm]	[mm]	[kg]	[kg]
	90	1.000	2.430	3.240

Glued wall panels BSP (glue laminate timber)	Panel Dimension		<u> </u>	Ω
	min. Thickness	min. Length and Width	2 Attachment Points 45°	2 Attachment Points 90°
	[mm]	[mm]	[kg]	[kg]
	90	1.000	1.160	520 = (Panel Weight / 2)

^{*} Highly resinous timber like pine and larch, or BSP walls mounted at the front side, may only be lifted at an angle of >5° to the borehole axis.

The operator is responsible for the sufficient transfer of force from the head threshold (plate) to the posts, SIHGA® accepts no liability for this.



SIHGA® TIP:

Detailed load tables for different wood dimensions and load cases can be found in the Pick operating.

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the minimum distance to the surface layer while fastening plates to the front of the BSP panel is 2 cm $\,$

the minimum distance between each attachment point is 50 cm the minimum distance between attachment points and beam or panel edge must not be less than 25 cm

Attention: The axial distance between the posts in framed walls must not exceed 62.5 cm.

System Kit Pick HMB

SIHGA® Feature

YOUR Benefit

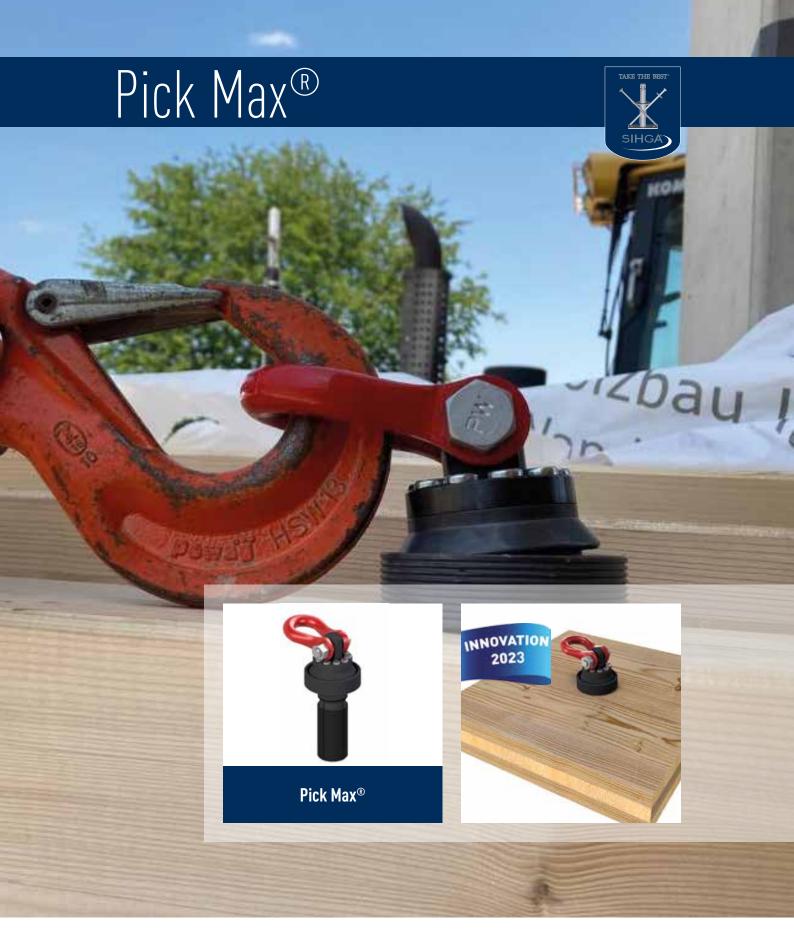
two Pick and shackle, Pick Drill HMB, IdeFix® Drill Gauge IBG, 1 set HMB spare indexable inserts with reliable and clean storage including all accessories; including place holder for third Pick

screws and Allen keys and operating instructions are supplied in the System Kit	3,	
operating instructions stored in the lid	load values and safety conditions always to hand	
Pick Drill HMB with optimised geometry for clean drilling in the glue laminate timber, glued cross laminate timber and solid timber	for seamless use of the Pick in the drilled hole, the best precondition for safe lifting	
Pick Drill HMB made from high quality steel with exchangeable tungsten carbide indexable inserts	for continuous use of the drill with uniform quality of the drilled hole standing times (costly crane hours!) for sharpening the drill are superfluous	
Pick Drill HMB with threaded bit	independent retraction of the drill without the application of force, guaranteed centring with different grain directions	
including IdeFix® Drill Gauge IBG	easy, safe compliance with the drill depth against unintended drilling through, chippings collection, protection of the drill and against injuries	





System Catalogue 215 www.sihga.com



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SIHGA® Feature	YOUR Benefit
load attachment for lifting glued laminated timber, glued cross laminate timber and solid timber	capacity up to 2.400 kg per fastening point
made, developed and patented in Austria from high-quality steel	local quality and reliability, Q&T steel for permanent, robust long life
lift by drilling a blind hole (Ø 50 mm, depth 140 mm)	visible quality of the surfaces is not impaired, no fastening screws needed
Pick Max® Bohrer HMB can be combined with the IdeFix® Drill Gauge IBG	easy, safe compliance with the drill depth, precise drilling at 90°
safe and simple attachment	attached with a few actions, the attachment does not have to be aligned
versatile in application	on the back (from panel thickness of 100 mm), side and transom-side for all kinds of support
low-maintenance	annual test together with personal protective equipment according to Occupational Health and Safety Directive possible
long service life	16.000 load cycles
safety tested – accompanied by TÜV	avoidance of safety risks, diverse application areas and ambient conditions tested

SIHGA® Expandix

Art. No.	PU
30486	2

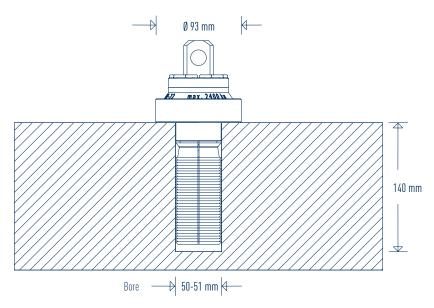






SIHGA® TIP:

The Expandix (consisting of 2 rubber bands with loops and 4 shackles) is a practical lifting aid that dampens the swinging of the Pick and Pick Max® during the release process.



Pick Max® Load Table				
	Beam Di	mension	Ŷ	Ŷ
Beam	min. Height	min. Width	2 Attachment Points 0°*	2 Attachment Points 45°
	[mm]	[mm]	[kg]	[kg]
KVH e.g. framed wall	160	160	4.800	2.696

	Panel Dimension		Â	<u> </u>
Glued ceiling panels BSP/CLT (glue laminate timber)	min. Thickness	min. Length and Width	3 Attachment Points 30°	4 Attachment Points 30° (only with rocker)
timber	[mm]	[mm]	[kg]	[kg]
	160	2.000	4.054	5.405

	Panel Di	mension	1	ſŷ.
Glued wall panels BSP (glue laminate timber)	min. Thickness 5-layer	min. Length x min. Height	2 Attachment Points 30°	2 Attachment Points 90°
	[mm]	[mm]	[kg]	[kg]
	120	2.000 x 1.000	2.618	1.765

^{*} Highly resinous timber like pine and larch, or CLT walls mounted at the front side, may only be lifted at an angle of >5° to the borehole axis.

the minimum distance to the surface layer while fastening plates to the front of the CLT panel is 2,5 cm $\,$

the minimum distance between each attachment point is 100 cm

the minimum distance between attachment points and beam or panel edge must not be less than 50 cm $\,$

Attention: The axial distance between the posts in framed walls must not exceed 62.5 cm.

The operator is responsible for the sufficient transfer of force from the head threshold (plate) to the posts, SIHGA® accepts no liability for this.



SIHGA® TIP:

Detailed load tables for different wood dimensions and load cases can be found in the Pick Max® operating.

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Systemkoffer Pick Max® HMB

SIHGA® Feature

YOUR Benefit

two Pick Max® and shackle, Pick Max® Drill HMB, IdeFix® Drill Gauge IBG, 1 set HMB spare indexable inserts with screws and Allen keys and operating instructions are supplied in the System Kit

reliable and clean storage including all accessories

instructions are supplied in the System Kit	
operating instructions stored in the lid	load values and safety conditions always to hand
Pick Max® Drill HMB with optimised geometry for clean drilling in the glue laminate timber, glued cross laminate timber and solid timber	for seamless use of the Pick in the drilled hole, the best precondition for safe lifting
Pick Max® Drill HMB made from high quality steel with exchangeable tungsten carbide indexable inserts	for continuous use of the drill with uniform quality of the drilled hole standing times (costly crane hours!) for sharpening the drill are superfluous
Pick Max® Drill HMB with threaded bit	independent retraction of the drill without the application of force, guaranteed centring with different grain directions
including IdeFix® Drill Gauge IBG	easy, safe compliance with the drill depth against unintended drilling through, chippings collection, protection of the drill and against injuries

SIHGA®

System Kit Pick Max® HMB

System rate	Territary Third
Art. No.	PU
49293	1





Pick Deck II / Deck Max II

Prefabricated steel insert for pick holes after shifting wooden beam/panel components.

By inserting the Pick Deck (Max) II into the pick hole, the compression zone of the displaced component is closed again and the full cross-section can be assumed again with regard to the load-bearing capacity.

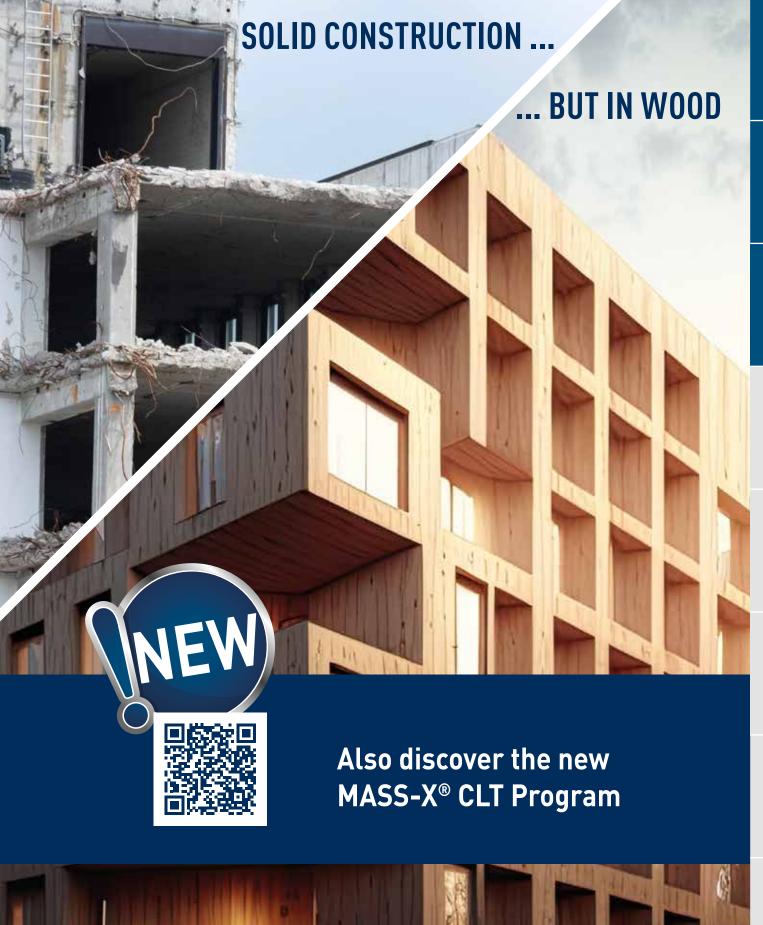
S	IHGA®		Dime	nsions
mont	agepack®	Pick® Deck II	d	l
Art. Nr.	VE	Туре	[mm]	[mm]
90766	10	Pick Deck II	50	70
90776	10	Pick Deck Max II	50	140

As Neuhaus 2017 (8.3.3) 1. points out with reference to EN DIN 1995-1-1:2019, weakening of the cross-section in the compression zone of structural members subjected to bending need not be taken into account in the calculation if the weakened area is filled to capacity and the filling material has the same or more stiffness as the surrounding timber.

Source: Neuhaus, Helmuth (2017): Ingenieurholzbau. 4th Ed. Wiesbaden: Springer Fachmedien Wiesbaden



220 System Catalogue www.sihga.com



TICK TIME

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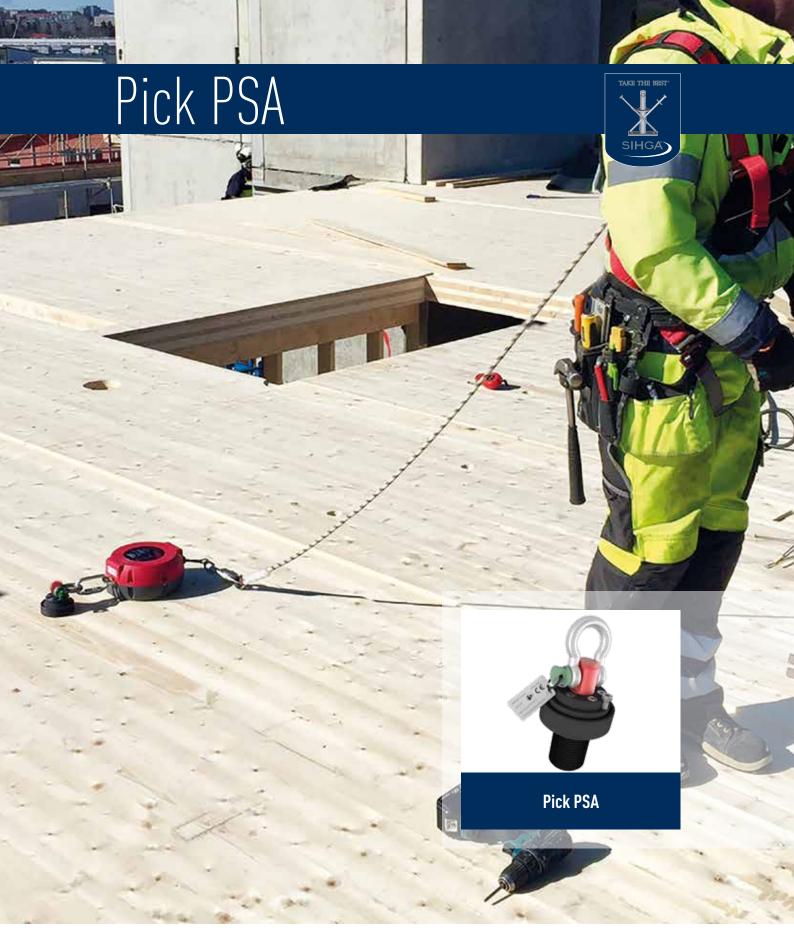
Pick Deck

oick PSA

System Pick Engel®

Pick Out

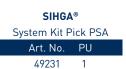
Pocket Trav

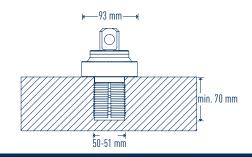


222 System Catalogue www.sihga.com

SIHGA® Feature	YOUR Benefit
protecting yourself and your employees from injury does not get any simpler than this	choose Pick-PSA when selecting your type-B attachment point
if the wooden elements have already been lifted with the Sihga Pick, there are already sufficient holes available	there are no time-consuming issues with tangled cables as the next attachment point is always within reach
optimal cable lengths possible	enables secure movement without restricting freedom of movement
no time-consuming installation and deinstallation necessary	for maximum security, the Pick-PSA is simply inserted into the borehole and the safety screw is tightened to 3 Nm
no cumbersome scaffolding needed	saves time and money
versatile in use	applicable for beam ceilings and board locking slabs
made, developed and patented in Austria	Austrian build quality and reliability, robust heat-treatable steel for long durability
almost maintenance free	regular cleaning and visual inspections, as well as annual testing in accordance with operating material regulations (Arbeitsmittelverordnung) are sufficient
tested by TÜV Austria	ensures the highest level of safety















SIHGA® TIP:

Use the SIHGA® Pick to lift your wooden elements in order to achieve the best conditions for the Pick PSA.



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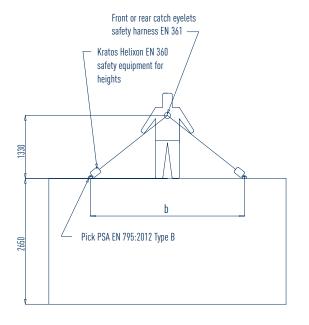
SIHGA® Feature

YOUR Benefit

tested product combination to protect in case of low height falls	also safeguard yourself and your employees from an often underestimated low height fall of ≥2.00 m
applicable as a safety team: two Pick PSA and two Helixon-S height protection devices tested as a system	reliable and immediately useable fall protection
versatile in use	applicable when erecting construction elements, placing ceiling elements and various loading activities
simple and safe installation	the worker is protected with fewer handgrips
Helixon-S safety equipment for heights, with FA 50 203 20 connecting element including fall indicator, a carry handle and an external fall impact absorber	safety equipment for heights ready to use, all important functions are integrated
integrated braking system for a collision force of less than 6kN Swivel hook and connecting element FA 50 101 17 to attach to the Pick PSA	Helixon-S safety equipment for heights conformity with EN 360:2002
high load-bearing capacity possible	tested for up to 100 kg body weight

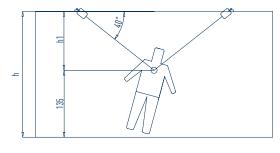
SIHGA®		Safety Equipment for Heights	Strap	Max.	Weight
montage	pack	Helixon-S	Width	Body Weight	Helixon-S
Art. No.	PU	[m]	[mm]	[kg]	[kg]
43596	1	3,5	25	100	1,74

	Table	
h	h1	b
200	65	155
210	75	179
220	85	203
230	95	226
240	105	250
250	115	274
260	125	298
270	135	322
280	145	346
290	155	369
300	165	393



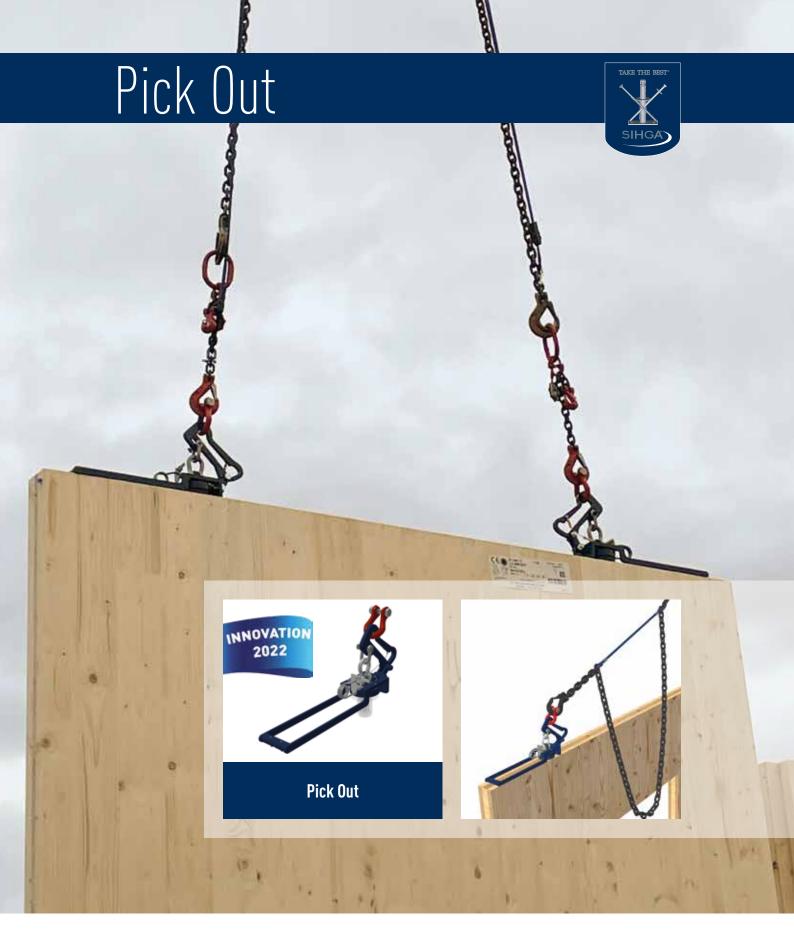
h1 = h - 135cm	
$b = \frac{2 \times h1}{\tan \left[40^{\circ}\right]}$	
Evamnle:	

h1 = 265 - 135 = 130cm
b =
$$\frac{2 \times 130}{\tan (40^{\circ})}$$
 = 310 cm





For your safety, use the combination exclusively with the Pick PSA.



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System Kit Pick Out

SIHGA® Feature

YOUR Benefit

upwards as quickly as possible the Pick Out is a purely mechanical component low-maintenance tested safety - development was accompanied by the TÜV has been tested by SIHGA clients unhooking is greatly minimised and thus ensures high safety no electronics -> therefore no empty batteries, no reception problems annual inspection together with personal safety equipment is possible as per the work equipment directive avoidance of safety risks, corresponds to the latest state of the technological art field reports provide certainty about function and suitability accessories and operating instructions are placed in a foam inlay, Pick Outs are accommodated even	developed, patented and manufactured in Austria	the highest Austrian quality and added value
the use of personnel only the skill of the crane operator removes the pick the removal time of the picks is drastically shortened elastic bands pull the Pick Out including pick upwards as quickly as possible the Pick Out is a purely mechanical component the Pick Out is a purely mechanical component low-maintenance tested safety - development was accompanied by the TÜV thas been tested by SIHGA clients the pick suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights is a thing of the past suspending a load at dizzying heights saves time and money the past suppending a load at dizzying heights saves time and money the swinging of the load handling attachments afte unhooking is greatly minimised and thus ensures high safety no electronics -> therefore no empty batteries, no reception problems annual inspection together with personal safety equipment is possible as per the work equipment directive annual inspection together with personal safety equipment is possible as per the work e	is an extension for the Pick load handling device	mounts quickly and easily onto your existing picks
the past saves time and money the swinging of the load handling attachments after unhooking is greatly minimised and thus ensures high safety the Pick Out is a purely mechanical component annual inspection together with personal safety equipment is possible as per the work equipment directive tested safety - development was accompanied by the TÜV thas been tested by SIHGA clients the past saves time and money the swinging of the load handling attachments after unhooking is greatly minimised and thus ensures high safety unhooking is greatly minimised and thus ensures high safety no electronics -> therefore no empty batteries, no reception problems annual inspection together with personal safety equipment is possible as per the work equipment directive tested safety - development was accompanied by state of the technological art field reports provide certainty about function and suitability accessories and operating instructions are placed in a foam inlay, Pick Outs are accommodated even	•	•
elastic bands pull the Pick Out including pick upwards as quickly as possible the Pick Out is a purely mechanical component low-maintenance tested safety - development was accompanied by the TÜV has been tested by SIHGA clients saves time and money the swinging of the load handling attachments after unhooking is greatly minimised and thus ensures high safety no electronics -> therefore no empty batteries, no reception problems annual inspection together with personal safety equipment is possible as per the work equipment directive avoidance of safety risks, corresponds to the latest state of the technological art field reports provide certainty about function and suitability accessories and operating instructions are placed in a foam inlay, Pick Outs are accommodated even		
upwards as quickly as possible the Pick Out is a purely mechanical component low-maintenance tested safety - development was accompanied by the TÜV has been tested by SIHGA clients unhooking is greatly minimised and thus ensures high safety no electronics -> therefore no empty batteries, no reception problems annual inspection together with personal safety equipment is possible as per the work equipment directive avoidance of safety risks, corresponds to the latest state of the technological art field reports provide certainty about function and suitability accessories and operating instructions are placed in a foam inlay, Pick Outs are accommodated even	•	saves time and money
reception problems annual inspection together with personal safety equipment is possible as per the work equipment directive tested safety - development was accompanied by the TÜV avoidance of safety risks, corresponds to the latest state of the technological art field reports provide certainty about function and suitability accessories and operating instructions are placed in a foam inlay, Pick Outs are accommodated even	,	
low-maintenance equipment is possible as per the work equipment directive tested safety - development was accompanied by the TÜV avoidance of safety risks, corresponds to the latest state of the technological art field reports provide certainty about function and suitability accessories and operating instructions are placed in a foam inlay, Pick Outs are accommodated even	the Pick Out is a purely mechanical component	
the TÜV has been tested by SIHGA clients field reports provide certainty about function and suitability accessories and operating instructions are placed in a foam inlay, Pick Outs are accommodated even	low-maintenance	equipment is possible as per the work equipment
supplied in a high-quality system case supplied in a high-quality system case supplied in a high-quality system case supplied in a foam inlay, Pick Outs are accommodated even		avoidance of safety risks, corresponds to the latest state of the technological art
supplied in a high-quality system case in a foam inlay, Pick Outs are accommodated even	has been tested by SIHGA clients	
with mounted picks	supplied in a high-quality system case	



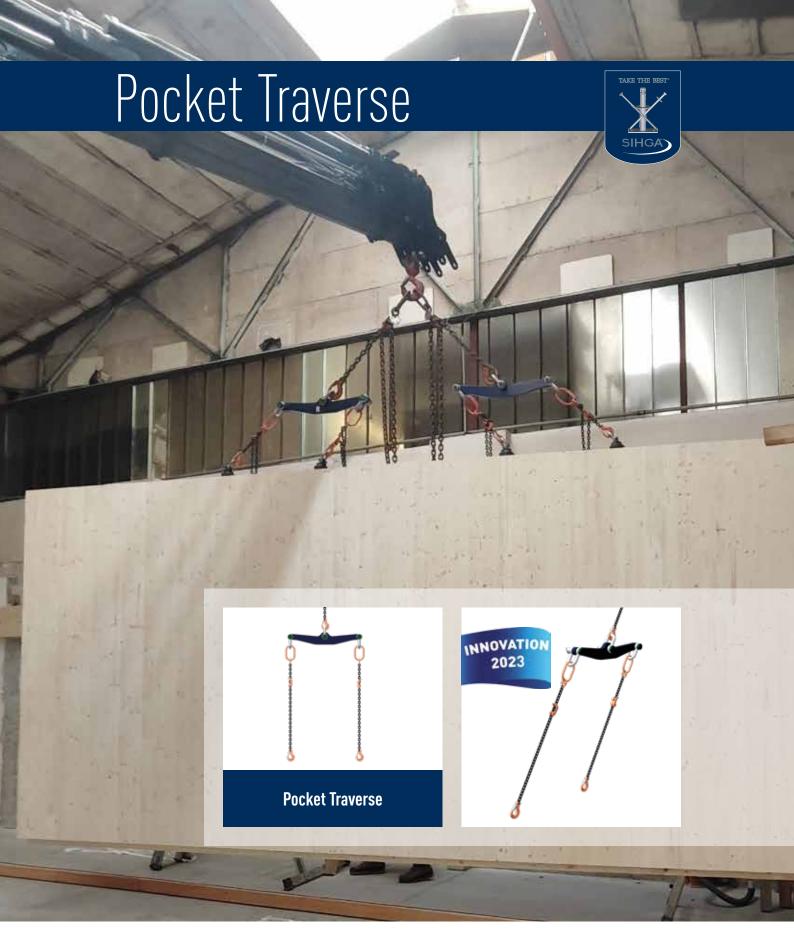


System Kit Pick Out



SIHGA® TIP:

In order to protect visible surfaces and built-in window elements on the Pick Out, we recommend the use of guide cords, which are manually guided from below, thus avoiding uncontrolled swaying of the crane chains. Another aid is the single strand chain (item no.: 50046).



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Pocket Traverse

SIHGA® Feature

YOUR Benefit

The Pocket Traverse is a traverse with a small format	It is easily transportable and therefore also readily available
Couples two load handling attachments with each other	By coupling two load handling attachments, twice the load can be lifted
Specialist geometry	The patent-pending geometry guarantees equal load distribution on each anchor point for lifting angles between 0° and 45°
The Pocket Traverse can also be used as a balancing rocker	When lifting 4 strands, e.g. ceiling elements, all four chain strands can be assumed to have the same load-bearing capacity
Chains with shortening claws	The Pocket Traverse can also be used correctly with challenging geometries
2,500 kg load capacity	When using 2 Pocket Traverses, elements up to 5,000 kg can be lifted up
Long service life	Up to 16,000 load cycles
Low-maintenance	Annual inspection together with personal safety equipment in accordance with the Work Equipment Ordinance
CE marking	Provides security through conformity with all relevant standards

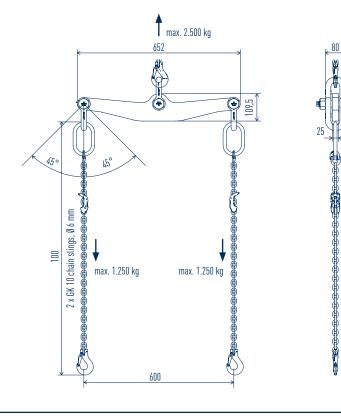
SIHGA® Pocket Traverse Art. No. 50036

Load cases:











SIHGA" IIP:

In combination with the SIHGA® Pick, the system offers maximum safety and efficiency and elements can be lifted with twice the weight as before







SIHGA® Feature **YOUR Benefit** wall anchors for vertically perforated brick assembly of canopies, carports and pergolas bridges up to 20 cm insulation no cumbersome cutting out of insulation necessary high load-bearing capacity cannot be achieved with any other customary system internal pipe insulation very low heat loss including sealing disc reseals the facade 0-6 mm rear ventilation joint for pergolas that are not covered and so on, a distance of 6 mm should be selected so that the wood can dry, no spacing for covered construction disc dowels included for optimal cross shear force transmission, Reinforcement of the embedment strength anchor pipe with high corrosion resistance SC 9 coating means high service life BeziFee® is included no additional material required developed and manufactured in Austria time-saving, practical, precise, complete accessories included



SIHGA® TIP:

The special ProziFix® drill PFB 50 was developed to make the 50 mm hole, as it cuts a clean hole in brick without shattering the brick.







ProziFix® load tables

Senftenbacher 25 VZ Plan

SIHGA®	Dimension		I hickness		Characteristic Values		Recommended Values*		
montage	oack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110		6,27	6,5	2,51	1,86
55426	5	50 x 320	42,4 / 8	130		5,88	6,5	2,35	1,86
55436	5	50 x 340	42,4 / 8	150	ProziFix® Drill	5,53	6,5	2,21	1,86
55446	5	50 x 360	42,4 / 8	170	PFB 50	5,23	6,5	2,09	1,86
55456	5	50 x 380	42,4 / 8	190	-	4,95	6,5	1,98	1,86
55466	5	50 x 400	42,4 / 8	210		4,70	6,5	1,88	1,86

Wienerberger Poroton vertically perforated brick Plan-T 24,0-0,9

SIHGA® montagepack	Dimension		Inickness		Characteri	Characteristic Values		nended ies*		
	montage	pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
	Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
	55416	5	50 x 300	42,4 / 8	110		14,19	16,34	5,67	4,67
	55426	5	50 x 320	42,4 / 8	130	-	13,30	16,34	5,32	4,67
	55436	5	50 x 340	42,4 / 8	150	ProziFix® Drill	12,52	16,34	5,01	4,67
	55446	5	50 x 360	42,4 / 8	170	PFB 50	11,82	16,34	4,73	4,67
55456	5	50 x 380	42,4 / 8	190		11,20	16,34	4,48	4,67	
	55466	5	50 x 400	42,4 / 8	210		10,64	16,34	4,26	4,67

Wienerberger Poroton flat brick T8-50,0

SIHGA®		Dimension		Insulation Thickness tool		Characteri	stic Values	Recommended Values*	
montagepac	oack	d1 x L	d2 / Wall Thickness	D	ισσι	F_{1c}	F_{2c}	F_{1d}	F_{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55406	5	50 x 190	42,4 / 8	0	ProziFix®	14,70	6,76	5,88	1,93
55416	5	50 x 300	42,4 / 8	110	Drill PFB 50	9,31	6,76	3,72	1,93

Wienerberger Porotherm 25-38 Plan

SIHGA®		Dimension		Insulation Thickness	Drilling	Characteristic Values		Recommended Values*	
montage	pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	$F_{\scriptscriptstyle 2c}$	F_{1d}	F_{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110		8,74	13,27	3,50	3,79
55426	5	50 x 320	42,4 / 8	130		8,19	13,27	3,28	3,79
55436	5	50 x 340	42,4 / 8	150	ProziFix® Drill	7,71	13,27	3,08	3,79
55446	5	50 x 360	42,4 / 8	170	PFB 50	7,28	13,27	2,91	3,79
55456	5	50 x 380	42,4 / 8	190		6,90	13,27	2,76	3,79
55466	5	50 x 400	42,4 / 8	210		6,56	13,27	2,62	3,79

^{*}For installation in dry concrete or masonry and a temperature range I according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +40° C; maximum long-term temperature +24° C). Valid for the minimum edge & axis distances given in the table.

Reductions of the recommended values are applied as follows:

Reductions of the recommended values are applied as follows:
Reduction by the factor $F_{\rm pr} = 0.7$ is required for damp substrates or a temperature range II according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +80° C; maximum long-term temperature +50° C) $F_{\rm 1d}$ and $F_{\rm 2d}$. $F_{\rm 2d}$ must then be reduced by the factor $F_{\rm devalue} = 0.6$ if the proportion of the permanently acting tractive load is higher than 50% Material coefficients of $\mathbf{YM}_{\rm c}$ of 2.5 for brick and 1.5 for concrete are already taken into account for $F_{\rm 1d}$ and $F_{\rm 2d}$. An installation safety factor $\mathbf{Y}_{\rm inst}$ of 1.4 is already taken into account for tractive load $F_{\rm 2d}$. This does not apply for shear forces $F_{\rm 1d}$. For load cases not covered in this table, the underlying expert opinion of MPA Stuttgart is available at www.sihga.com.

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Wienerberger Porotherm 50-20 H.i. Plan

SIHGA	(®		Dimension	Insulation Thickness	Drilling	Characteristic Values		Recommended Values*	
montage	pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55406	5	50 x 190	42,4 / 8	0	ProziFix®	8,10	2,32	3,24	0,66
55416	5	50 x 300	42,4 / 8	110	Drill PFB 50	5,13	2,32	2,05	0,66

Pichler PIAplan 25/38 VZ

SIHGA®		Dimension		Thickness Differing		Characteristic Values		Recommended Values*	
montage	pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110		8,55	5,86	3,42	1,67
55426	5	50 x 320	42,4 / 8	130		8,02	5,86	3,21	1,67
55436	5	50 x 340	42,4 / 8	150	ProziFix®	7,54	5,86	3,02	1,67
55446	5	50 x 360	42,4 / 8	170	Drill PFB 50	7,13	5,86	2,85	1,67
55456	5	50 x 380	42,4 / 8	190		6,75	5,86	2,70	1,67
55466	5	50 x 400	42,4 / 8	210		6,41	5,86	2,57	1,67

Pichler PIAplan 50/20 VZ

SIHGA®		(®	Dimension		Insulation Thickness	Drilling	Characteristic Values		Recommended Values*	
	montage	pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
	Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
	55406	5	50 x 190	42,4 / 8	0	ProziFix®	2,40	3,15	0,96	0,90
	55416	5	50 x 300	42,4 / 8	110	Drill PFB 50	1,52	3,15	0,61	0,90

Leitl Vital Plan 25/30/24,9 cm N+F

SIHGA	\ ®		Dimension	Insulation Thickness	Drilling tool	Characteri	stic Values	Recomr Valu	
montage	pack	d1 x L	d2 / Wall Thickness	D	D 1001		F_{2c}	F_{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110		8,74	5,75	3,50	1,64
55426	5	50 x 320	42,4 / 8	130		8,19	5,75	3,28	1,64
55436	5	50 x 340	42,4 / 8	150	ProziFix®	7,71	5,75	3,08	1,64
55446	5	50 x 360	42,4 / 8	170	Drill PFB 50	7,28	5,75	2,91	1,64
55456	5	50 x 380	42,4 / 8	190	. 11000 -	6,90	5,75	2,76	1,64
55466	5	50 x 400	42,4 / 8	210		6,56	5,75	2,62	1,64

Leitl Vital Solex Plan 50/20/24,9 cm N+F

SIHGA®			Dimension	Insulation Thickness	Drilling	Characteristic Values		Recommended Values*	
montage	oack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55406	5	50 x 190	42,4 / 8	0	ProziFix®	2,40	4,45	0,96	1,27
55416	5	50 x 300	42,4 / 8	110	Drill PFB 50	1,52	4,45	0,61	1,27

^{*}For installation in dry concrete or masonry and a temperature range I according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +40° C; maximum long-term temperature +24° C). Valid for the minimum edge & axis distances given in the table.

Reductions of the recommended values are applied as follows:

Reductions of the recommended values are applied as follows:

Reduction by the factor $B_{\rm FT} = 0.7$ is required for damp substrates or a temperature range II according to ETA 17/0181 and ETA 17/0182 [minimum temperature -40° C, maximum short-term temperature +80° C; maximum long-term temperature +50° C] $F_{\rm 1d}$ and $F_{\rm 2d}$. $F_{\rm 2d}$ must then be reduced by the factor $B_{\rm duration} = 0.6$ if the proportion of the permanently acting tractive load is higher than 50% Material coefficients of $\gamma M_{\rm c}$ of 2.5 for brick and 1.5 for concrete are already taken into account for $F_{\rm 1d}$ and $F_{\rm 2d}$.

An installation safety factor $\gamma_{\rm inst}$ of 1.4 is already taken into account for tractive load $F_{\rm 2d}$. This does not apply for shear forces $F_{\rm 1d}$. For load cases not covered in this table, the underlying expert opinion of MPA Stuttgart is available at www.sihga.com.

EDER Plan XP 50 plus

SIHGA®		Dimension		Insulation Thickness Drilling		Characteristic Values		Recommended Values*		
montagep Art. No.		pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
		PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
	55406	5	50 x 190	42,4 / 8	0	ProziFix®	5,30	5,7	2,12	1,63
	55416	5	50 x 300	42,4 / 8	110	Drill PFB 50	3,36	5,7	1,34	1,63

H+H solid lime sand brick 2 DF

SIHGA®		Dimension		Insulation Thickness Drilling		Characteri	stic Values	Recommended Values*	
montage	pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	ProziFix®	22,61	20,56	9,04	5,87
55426	5	50 x 320	42,4 / 8	130	. Drill	21,20	20,56	8,48	5,87
55436	5	50 x 340	42,4 / 8	150	PFB 50	19,95	20,56	7,98	5,87
55446	5	50 x 360	42,4 / 8	170	or 50 mm	18,84	20,56	7,54	5,87
55456	5	50 x 380	42,4 / 8	190	Hammer Drill	17,85	20,56	7,14	5,87
55466	5	50 x 400	42,4 / 8	210	שוונו	16,96	20,56	6,78	5,87

C20/25 cracked and non-cracked slab > 20 cm front side

SIHGA®		Dimension		I hickness		Characteristic Values		Recommended Values*		
montagepa Art. No. F		pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
		PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
	55416	5	50 x 300	42,4 / 8	110		10,89	10,45	7,26	4,98
	55426	5	50 x 320	42,4 / 8	130		10,21	10,45	6,81	4,98
	55436	5	50 x 340	42,4 / 8	150	50 mm	9,61	10,45	6,41	4,98
	55446	5	50 x 360	42,4 / 8	170	Hammer Drill	9,08	10,45	6,05	4,98
55456	5	50 x 380	42,4 / 8	190	Dille	8,60	10,45	5,73	4,98	
	55466	5	50 x 400	42,4 / 8	210		8,17	10,45	5,45	4,98

C20/25 cracked and non-cracked slab > 25 cm front side or wall surface

SIHGA® montagepa Art. No. F		®		Dimension	Insulation Thickness	Drilling	Characteristic Values		Recommended Values*	
		pack	d1 x L	d2 / Wall Thickness	D	tool	F_{1c}	F_{2c}	F_{1d}	F_{2d}
		PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
	55416	5	50 x 300	42,4 / 8	110	110		10,45	8,61	4,98
	55426	5	50 x 320	42,4 / 8	130		12,11	10,45	8,08	4,98
	55436	5	50 x 340	42,4 / 8	150	50 mm Hammer	11,40	10,45	7,60	4,98
	55446	5	50 x 360	42,4 / 8	170	Drill	10,77	10,45	7,18	4,98
	55456	5	50 x 380	42,4 / 8	190	51111	10,20	10,45	6,80	4,98
	55466	5	50 x 400	42,4 / 8	210		9,69	10,45	6,46	4,98

Reductions of the recommended values are applied as follows:

Reductions of the recommended values are applied as follows:
Reduction by the factor $\mathbf{B}_{pr} = \mathbf{0.7}$ is required for damp substrates or a temperature range II according to ETA 17/0181 and ETA 17/0182
[minimum temperature -40° C, maximum short-term temperature +80° C; maximum long-term temperature +50° C] \mathbf{F}_{1a} and \mathbf{F}_{2a} . \mathbf{F}_{2a} must then be reduced by the factor $\mathbf{B}_{duration} = \mathbf{0.6}$ if the proportion of the permanently acting tractive load is higher than 50% Material coefficients of \mathbf{yM}_{c} of 2.5 for brick and 1.5 for concrete are already taken into account for \mathbf{F}_{1a} and \mathbf{F}_{2d} .

An installation safety factor \mathbf{Y}_{load} of 1.4 is already taken into account for tractive load \mathbf{F}_{2d} . This does not apply for shear forces \mathbf{F}_{1d} .

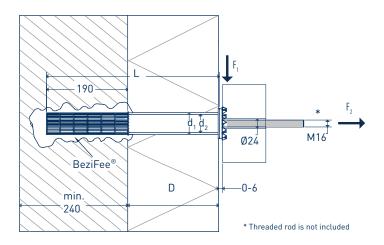
For load cases not covered in this table, the underlying expert opinion of MPA Stuttgart is available at www.sihga.com.

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^{*}For installation in dry concrete or masonry and a temperature range I according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +40° C; maximum long-term temperature +24° C). Valid for the minimum edge & axis distances given in the table.

ProziFix® brick dimensions, axis and edge distances

	Length	Height h	Thickness d	$f_{b,min}/f_{c,min}$	Edge distances C_1/C_2	Axis distances S ₁ /S ₂
	[cm]	[cm]	[cm]	[N/mm²]	[cm]	
Senftenbacher 25 VZ Plan	38,0	24,9	25,0	15,0	19,0/12,5	l/h
Wienerberger Poroton Vertical perforated brick Plan-T 24,0-0,9	37,3	24,9	24,0	12,0	18,7/12,5	l/ h
Wienerberger Poroton Poroton flat brick T8-50,0	24,8	24,9	50,0	6,0	12,4/12,5	l/h
Wienerberger Porotherm 25-38 Plan	37,5	24,9	25,0	10,0	18,8/12,5	l/h
Wienerberger Porotherm 50-20 H.i. Plan	20,0	24,9	50,0	7,5	10,0/12,5	l/h
Pichler PIAplan 25/38 VZ	38,0	24,9	25,0	15,0	19,0/12,5	l/h
Pichler PIAplan 50/20 VZ	20,0	24,9	50,0	10,0	10,0/12,5	l/h
Leitl Vital Plan 25/30/24,9 cm N+F	30,0	24,9	25,0	15,0	15,0/12,5	l/h
Leitl Vital Solex Plan 50/20/24,9 cm N+F	20,0	24,9	50,0	7,5	10,0/12,5	l/h
EDER Plan XP 50 plus	20,0	24,9	50,0	5,0	10,0/12,5	l/h
H+H Solid lie sand brick 2 DF	11,5	11,3	24,0	20,0	5,8/5,7	l/h
Concrete slab front side > 20 cm	40,0	20,0	25,0	C20/25	20,0/10,0	l/h
Betondecke stirnseitig > 25 cm	50,0	25,0	25,0	C20/25	25,0/12,5	l/h



ProziFix® Drill PFB 50

SIHGA® Feature

YOUR Benefit

special cutting geometry	cuts a 50 mm hole in bricks without destroying them
all blades are exchangeable	saves time and money
extra long shaft, compatible with IdeFix® Drill Gauge IBG	hole depths are precisely adjustable and the hole can be drilled cleanly at a right angle
can be used with common cordless screwdrivers	no hammer drill device required
manufactured in Austria	highest European quality and value creation

SIHG	A®	ProziFix® Drill PFB 50				
montag	epack	ØxL	Working Length			
Art. No.	PU	[mm]	[mm]			
55206	1	50 x 620	400			

SIHG	A ®	IdeFix® Drill Gauge IBG
montage	epack	Ø x L
Art. No.	PU	[mm]
33666	1	90 x 130





SIHGA® TIP:

When drilling with the ProziFix® Drill PFB 50, the IdeFix® Drill Gauge IBG is recommended in order to be able to maintain the exact depth.







Compared with Threaded Rod

System	Wall Thickness		Threaded Rod	Anchoring Depth (with adhesive mortar)	Wood Spacing Holder (L x W x H)	Failure Load	Failure Type	Max. Load*
	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]		[kN]
Threaded Rod	250	200	M 16	150	200 x 140 x 140	~ 1.20	Brick breakage	~ 0.4
ProziFix® 210	250	200	-	190	-	~ 7.50	Brick breakage	1.80

^{*} failure value with partial safety factors reduced (Senftenbacher 25 VZ Plan)





Stegsan® RV/BA





SIHGA® Feature **YOUR Benefit** walkway renovation system for wooden posts, the defective piece of wood between the water and stakes (Stegsan® RV) air is simply replaced; extensive cost-savings walkway renovation system for beams the beam is permanently, quickly, securely and (Stegsan® BA) to wooden posts, stakes easily connected to the wooden post, stakes developed, patented and made in Austria local quality and added-value special coupling system for pre-installation in the saves lots of time angled screw connection in end-grain wood transfers high forces, especially for loads on the walkway from boats or waves anti-rotation lock enclosed (Stegsan® VS) the anti-rotation lock against unintended loosening is easily screwed to the side on-site includes SIHGAFIX® stainless steel, GoFix® HKE time-saving, practical, precise, complete stainless steel screws and installation instructions accessories enclosed made from aluminium for permanent fastening, even under water can be removed at any time can always be reused calculation values SIHGA® performs the calculation for you

SIHG	A ®		Steg	ısan®		Stake/Post	Screw	
montagepack		Dimension	nsion Ø Heig		Thread	min. Ø	GoFix® HKE	
Art. No.	PU	Туре	[mm]	[mm]	[mm]	[mm]	d1 x L	
30266 8*		RV	160	10	16	160	6,0 x 60	
30286	2	BA	100	25	20	-	6,0 x 60	

^{*} equals 4 connections







SIHGA® TIP:

Stegsan®, the easy, quick and reliable method for renovating lake walkways or jetties; the environment is best protected here, while planning permission is made easier.





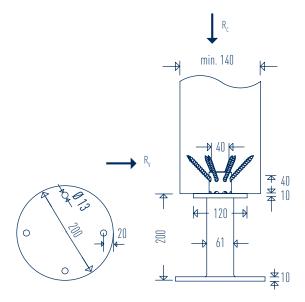
SIHGA® Feature

YOUR Benefit

takes up to 237.5 kN per attachment point, 29 kN tensile force 10 kN impact load (requirement: anchoring with Betsi A4 12 x 118 or same design values)	the most durable and reliable connection with impact protection at carports, according to comments on www.sihga.com (Herakulix® KI 200/Download)
high corrosion and splash protection due to coating	suitable for use in weathered areas
permanent wood connection	structural wood protection keeps surfaces free of damage
three-dimensional screwing with IdeFix® in the end grain	the world's only product with a three-dimensional, standard-compliant fitting provides safety
IdeFix® Drill Gauge IBG (page 200)	for efficient, angular drilling also on site
including SIHGAFIX®. GoFix® HK screws and installation instructions	time-saving, practical, precise, including all accessories

SIHGA®		Herakulix®	IdeFix®	Characteristi	c Values with No	Rated Values Impact Recommended for Carports		
objektpack		KI IF		Thrust [kN]	Traction [kN]	Transverse Force [kN]	Thrust [kN]	Transverse Force [kN]
Art. No.	PU	Туре	Туре	$R_{c,k}$	$R_{\scriptscriptstyle t,k}$	$R_{v,k}$	$R_{c,d}$	$R_{v,d}$
51547	2	KI 200	406	237,5	29,00	10,00	50,00 ¹	10,00 ²

^{*} characteristic values for design according to EC 5 and strength class C24 (ρk 350 kg/m³)





For manual drilling, we recommend the IdeFix® Drill Gauge IBG and drill.





deformed condition: exceptional load case as per EC: partial safety factors for constant loads (1.35) and variable loads (1.5) may be set to 1.0 and snow below 1000 m may be reduced by 80 %.

impact load car at a bumper height of 337.5 cm and at a speed of 5 km / h (requirement: Betsi A4 12 x 118 or equivalent load values)





SIHGA® Feature **YOUR Benefit** integrated inclination compensation of up to ±5° in surface unevenness and slopes can be all directions compensated for in an aesthetically pleasing and structurally correct manner two-part system with a short retraction path very simple assembly, height adjustable when assembled allows individual anchoring and unimpeded 90° a range of variants and additional drill bores in the base plate drilling high corrosion and spray water protection permissible for use in areas exposed to weather (Usage Class (NKL) 3) durable wood connection structural wood protection keeps surfaces free of damage takes up to 89.09 kN compressive force, 29 kN the durable, reliable connection with great load tensile force, and 3.25 kN transverse force per attachment point individual connection to wood with IdeFix® or the world's only product with a three-dimensional,





standard-compliant screw connection and the approved end grain screw ensure safety

for efficient, angular drilling, including on site

time-saving, practical, precise, including all

for one-man installation

accessories



GoFix®

punching pin for end grain screws

screws and installation instructions

including SIHGAFIX®, GoFix® HK or GoFix® S+

IdeFix® Drill Gauge IBG

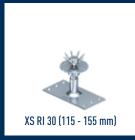
SIHGA® TIP:

For manual drilling, we recommend the IdeFix® Drill Gauge IBL with drill. For subsequent application of paving or the like, we recommend applying additional corrosion protection to the support foot in the affected area.





Herakulix® XS







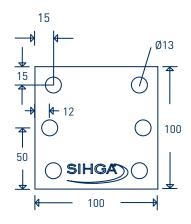


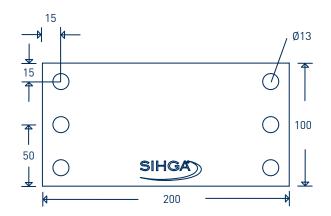




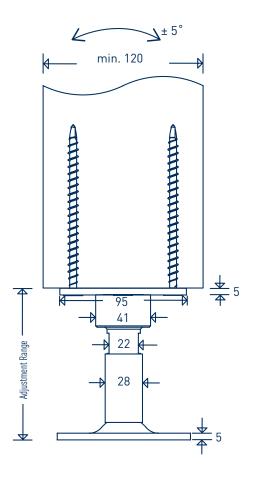


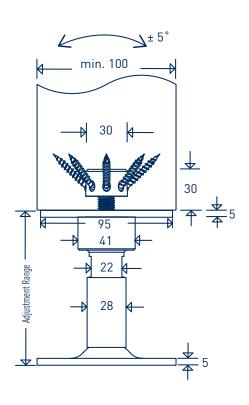
XS	X-Small	R	Rectangular Base Plate			
S	Small	Q	Square Base Plate			
М	Medium	K	Circular Base Plate			
L	Large	ı	IdeFix®			
XL	X-Large	G	GoFix®			
		В	Concrete (for setting in concrete)			





Herakulix® XS





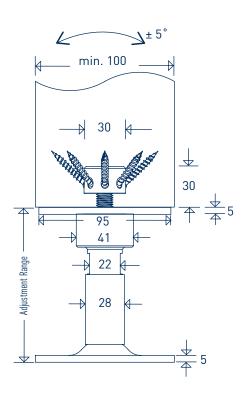
SIHG	A ®	Herakulix [©]	Wood Connection	•	stment inge	Design Values		Character. Values**
objektpa	ack®				eight nm]	Compressive Force [kN]	Shear Force [kN]	Tensile Force [kN]
Art. No.	PU	Туре	Туре	from	to	$R_{c,d}$	$R_{v,d}$	$R_{t,k}$
51107	10	XS RI 30	IdeFix® IFK 304	115	155	45,55	2,40	17,00
51117	10	XS QI 30	IdeFix® IFK 304	115	155	45,55	2,40	17,00
51127	10	XS RG	GoFix® S+ 8,0 x 195	115	155	45,55	-	10,90
51137	10	XS QG	GoFix® S+ 8,0 x 195	115	155	45,55	-	10,90
51147	10	XS BG	GoFix® S+ 8,0 x 195	99	136	45,55	1,92	10,90
47706	10	*XSRZ	Ring + disc	M 20	Ø 37/21			

^{**} characteristic values for design according to EC 5 and strength class C 24 (ρ k 350 kg/m³)

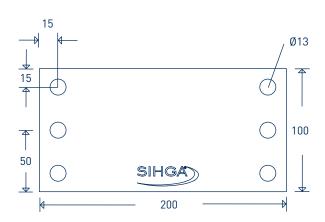


Herakulix® S





XS	X-Small	R Rectangular Base Plate				
S	Small	Q Square Base Plate				
М	Medium	K	K Circular Base Plate			
L	Large	I	IdeFix®			
XL	X-Large	G	GoFix®			
		В	Concrete (for setting in concrete)			



SIH	GA®	Herakulix®	Wood Connection	Adjustment Range		Design Value	es Charac	ter. Values**
objekt	tpack®			Heig	ht [mm]	Compressive Force [kN]	Shear Force [kN]	Tensile Force [kN]
Art. N	o. PU	Туре	Туре	from	to	$R_{c,d}$	$R_{v,d}$	$R_{t,k}$
5116	7 10	S RI 30	IdeFix® IFK 304	155	245	45,55	1,2	17,00

^{**} characteristic values for design according to EC 5 and strength class C 24 [ρ k 350 kg/m³]





Herakulix® M



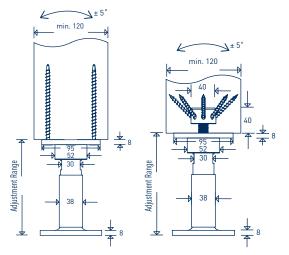




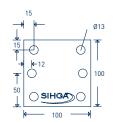


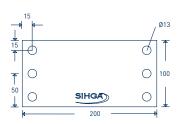






XS	X-Small	R	Rectangular Base Plate
S	Small	Q	Square Base Plate
М	Medium	K	Circular Base Plate
L	Large	- 1	IdeFix®
XL	X-Large	G	GoFix [®]
		В	Concrete (for setting in concrete)





SIHG	A ®	Herakulix ®	Wood Connection	Adjustm	ent Range	Design Val	ues Chara	cter. Values**
objektpa	ack®			Heigh	t [mm]	Compressive Force [kN]	Shear Force [kN]	Tensile Force [kN]
Art. No.	PU	Туре	Туре	from	to	R _{c,d}	R _{v,d}	R _{t,k}
51307	5	M RI 40	IdeFix® IFK 406	155	220	89,18	3,25	29,00
51317	5	M QI 40	IdeFix® IFK 406	155	220	89,18	3,25	29,00
51327	5	M RG	GoFix® S+ 8,0 x 195	155	220	89,18	=	10,90
51337	5	M QG	GoFix® S+ 8,0 x 195	155	220	89,18	-	10,90
51347	5	M BG	GoFix® S+ 8,0 x 195	137	202	89,18	3,20	10,90
47716	5	*MLRZ	Ring + disc	M 27	Ø 50/28			-

^{**} characteristic values for design according to EC 5 and strength class C 24 (ρk 350 kg/m³)



Herakulix® L

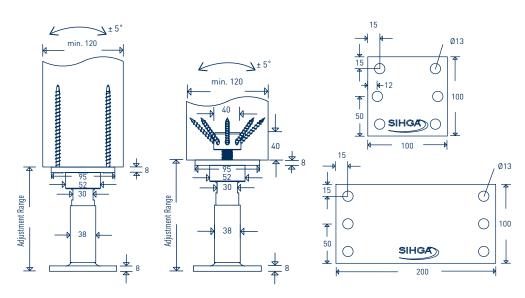








XS	X-Small	R	Rectangular Base Plate
S	Small	Q	Square Base Plate
М	Medium	K	Circular Base Plate
L	Large	1	ldeFix®
XL	X-Large	G	GoFix [®]
		В	Concrete (for setting in concrete)



SIHG	Α®	Herakulix®	Wood Connection	Adjustr	ment Range	Design \	/alues	Character. Values*
objektp	ack®			Heig	ght [mm]	Compressive Force [kN]	Shear Force [kN]	Tensile Force [kN]
Art. No.	PU	Туре	Туре	from	to	$R_{\scriptscriptstylec,d}$	$R_{v,d}$	$R_{t,k}$
51507	5	L RI 40	IdeFix® IFK 406	220	350	89,18	1,9	29,00
51517	5	L QI 40	IdeFix® IFK 406	220	350	89,18	1,9	29,00
51527	5	L RG	GoFix® S+ 8,0 x 195	220	350	89,18	-	10,90
51537	5	L QG	GoFix® S+ 8,0 x 195	220	350	89,18	-	10,90

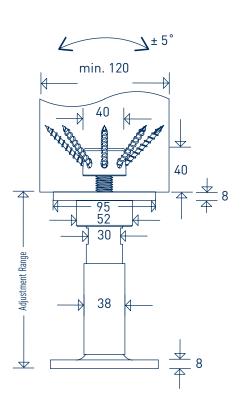
^{*} characteristic values for design according to EC 5 and strength class C 24 (ρ k 350 kg/m³)



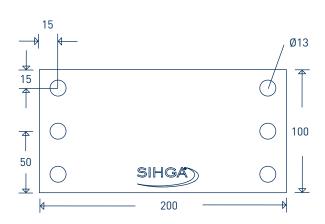


Herakulix® XL





XS	X-Small	R Rectangular Base Plate				
S	Small	Q	Square Base Plate			
М	Medium	K	K Circular Base Plate			
L	Large	ı	IdeFix®			
XL	X-Large	G	GoFix®			
		В	Concrete (for setting in concrete)			



SIHGA	√ ®	Herakulix®	Wood Connection	Adjustment Range		Design Value	es Charac	ter. Values**
objektpa	ack®			Heig	nt [mm]	Compressive Force [kN]	Shear Force [kN]	Tensile Force [kN]
Art. No.	PU	Туре	Туре	from	to	$R_{c,d}$	$R_{v,d}$	$R_{t,k}$
51567	5	XL RI 40	IdeFix® IFK 406	340	460	89,18	1,5	29,00

^{**} characteristic values for design according to EC 5 and strength class C 24 [ρ k 350 kg/m³]







SIHGA® Feature

YOUR Benefit

takes over up to 154.5 kN pressure force and 10.57 kN tensile force per fastening point	the durable, reliable connection with extremely quick assembly time
durable wood connection	structural wood protection keeps surfaces free of damage
thread cover through stainless steel covering sleeve	high corrosion and spray water protection
series 300 are height adjustable in the installed condition	height adjustable any time afterwards



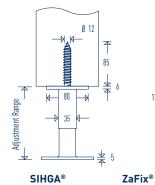


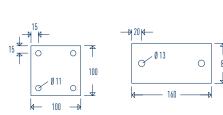












Adjustment Range

objektp	ack®	STZ	Height [m	m]	Compressive Force [kN]
Art. No.	PU	Туре	from	to	Rc, k
47957	10	STZ 211*	120	160	44,63
47907	10	STZ 221*	120	160	44,63
47917	10	STZ 310	120	160	70,42
47927	10	STZ 311	120	160	70,42
47937	10	STZ 320	120	160	70,42
47947	10	STZ 321	120	160	70,42

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^{*} not height adjustable in installed condition
** characteristic values for design according to EC 5 and strength class C 24 (pk 350 kg/m³)





Characteristic Values**



SIHGA® Feature	YOUR Benefit
connectors for rigidity	versatile in application, deformations are minimised: particularly in use for carports (model C) and in wood construction (model H)
developed and made in Austria	local quality and added-value
tested suitability	transfers both horizontal and vertical forces, as well as moment in frame constructions from wind and snow loads
simple installation	can be used without pre-drilling, connector can be pre-fitted in the factory
space-saving connection	no disruptive braces for rigidity, low construction height possible while maintaining the same access height
includes SIHGAFIX®, GoFix® S+ screws and installation instructions	time-saving, practical, precise, complete accessories enclosed
design values	SIHGA® performs the calculation for you, example calculations provided online
calculation template	at www.sihga.com (Stabilix C)

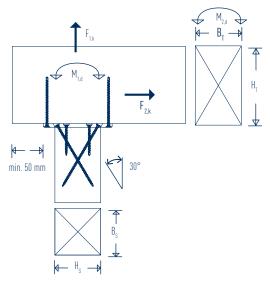




2 connectors can be selected per connection variant and combined with IdeFix $^{\circ}$.

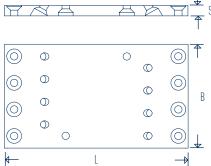


Stabilix C



SIHGA®	Tor	que	Characteris	stic Values*
Stabilix C	$M_{1,d}$	$M_{2,d}$	$F_{1,k}$	$F_{2,k}$
Туре	[kNm]	[kNm]	[kN]	[kN]
10	1,56	-	13,1	9,8
12	4,50	-	25,6	15,9
14/16	7,00	2,5	40,0	22,1

^{*} characteristic values for sizing according to EC 5 and for strength class C 24



SIHG	A®		Pil	lar	Cross	Beam	Screws GoFix [®]	9 S+	Din	nensio	ns
montage	epack	Stabilix C	min. H_s/B_s^*	max. H _s / B	s min. H _T	$\min.~B_{_{T}}$	Pillar	Cross Beam	L	В	S
Art. No.	PU	Туре	[mm]	[mm]	[mm]	[mm]	d1 x L [mm]		[mm]	
43306	2	10	90	100	100	90	8,0 x 155 and 8,0 x 95	8,0 x 95	150	80	12
43326	2	12	110	120	130	110	8,0 x 195 and 8,0 x 95	8,0 x 125	170	100	12
43346	2	14/16	130	160	160	130	8,0 x 220 and 8,0 x 95	8,0 x 155	210	120	15

^{*} ensure accurate positioning during installation

Torsion spring stiffness for Stabilix C10-C14/16*

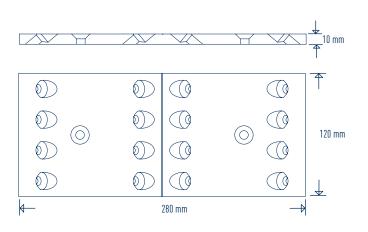
Stabilix C	Node stiffness						
Туре	Initially	Medium					
10	127 kNm/Rad	78 kNm/Rad					
12	317 kNm/Rad	186 kNm/Rad					
14/16	435 kNm/Rad	385 kNm/Rad					

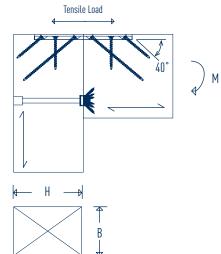
^{*} derived from the test report of the BTI Linz





Stabilix H





SIHG	A®		Coli	umn	Beam		Angle	Char. Values*	Screw GoFix® S+		
montage	epack	Stabilix	В	Н	min. Width min. Height		min. Width min. Height		Beam	Tensile Load	Dimension
Art. No.	PU	Туре	[mm]	[mm]	[mm]	[mm]	[°]	[kN]	d1 x L [mm]		
43436	2	Н	140	200	140	240	0	51,34	8,0 x 95 and 8,0 x 195		
43436	2	Н	140	200	140	240	20	42,68	8,0 x 95 and 8,0 x 195		
43446	2	Н	140	280	140	240	0	70,36	8,0 x 195		
43446	2	Н	140	280	140	240	20	58,50	8,0 x 195		

^{*} characteristic values for dimensioning according to EC 5 and strength class C 24 $[\rho k 350 \text{ kg/m}^3]$







SIHGA® Feature	YOUR Benefit
connection system for rigid frame corners	individual application for small wooden frames up to large halls
includes wooden elements (glued laminated timber) depending on requirement, made in Austria	dimensions, drill holes and GoFix® X+ screws as required
tested suitability	transfers both horizontal and vertical forces, depending on individual loading moment
uncomplicated rapid installation of the screws under 45° and suitable distances through predrilled timber	no grounds for mistakes or time losses, correct placement and guidance of the screws is given
no steel parts	no fire protection coating or welding required, aesthetically pleasing due to wooden connection
space-saving connection	no connection parts on top or inside
economical system	low costs due to prefabrication, prices on inquiry
system supply incl. pre-drilled wooden elements, GoFix® X+, SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed, the tailored system for rapid installation
statics tested by civil engineer	SIHGA® performs the calculation for you, simply fill in the form, example calculations are provided
individual dimension	SIHGA® will do the calculation for you, simply fill out the checklist
universal dimensioning	application for 2 or 3 articulated frames
verifiable, transparent dimensioning	safety in your projects

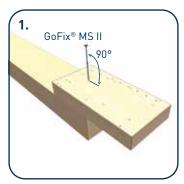




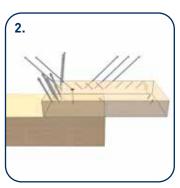
Use GoFix® MS II for simple positioning and location security of the brackets.



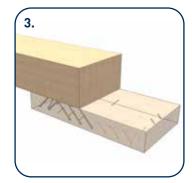
Stabilix R Application



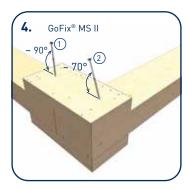
The strap is fixed in position on the support using GoFix MSII screws.



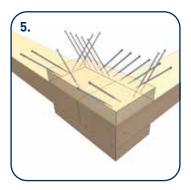
The support area can now be unscrewed.



The support is turned over, thus creating a support for the beam.



The beam is put on and the second strap is attached to the support. In order to achieve a positive fit between the beam and the support, a GoFix MS II screw is inserted at an angle of 70° to the strap in the direction of the OK beam. This arrangement guarantees a "contraction effect".



The drill holes on the beam and support side of the straps are unscrewed.



7.

After the beam has been erected, the remaining screws are inserted on the beam side.



SIHGA® TIP:

It is also possible to assemble the supports first; then place the beams from above and screw them into place.

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Primary/

From practice









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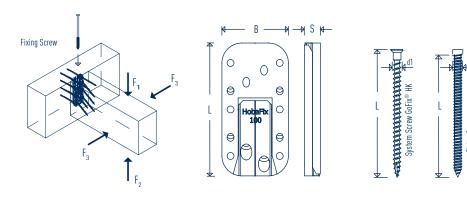




SIHGA® Feature

YOUR Benefit

knot connection from two identical parts (one connection consists of two parts)	can be fully pre-fabricated without any risk of a mix-up
developed, patented and made in Austria	top European quality and added-value
statically highly loadable in four directions, per connection up to 48 kN	horizontally and vertically, with high tested static values, can be used irrespective of the grain direction
mounting connection with Hoba coupling	major advantage during installation, allows smooth insertion of the two components
monitored production from aluminium	permanent and dimensionally stable quality, rust-free
including fixing screw for securing	prevents inadvertent loosening of the connector
visible and invisible installation	only one model for the entire range, with shadow groove or invisible installation
includes SIHGAFIX®, all fastening and fixing screws, installation instructions	time-saving, practical, precise, complete accessories enclosed
design values	online calculation of main beams-secondary beams (HT/NT)
HFA test seal, externally monitored	Holzforschung Austria also confirms and monitors these high values



SIHG	A ®		Dimension					ndary am	Cł	naracter Values	
montage	pack	HobaF	ix® F	łF	GoFix® HK	Fixing Screw	Width	Height	Load	l Directi	on [kN]
Art. No.	PU	Type (L)	В	S	d1 x L	d1 x L	[mm]	[mm]	F ₁	F ₂	F ₃
30036	20*	70	30	9	4,0 x 60	4,2 x 50	50	80	6,80	2,04	4,40
30056	20*	100	50	12	5,0 x 80	4,8 x 80	80	115	17,40	8,56	10,60
30076	20*	135	50	12	5,0 x 80	4,8 x 120	80	150	26,70	8,56	15,00
30096	20*	170	50	12	5,0 x 80	4,8 x 120	80	185	33,40	8,56	16,00
30116	12*	200	70	17	6,0 x 100	6,3 x 180	100	220	43,00	17,07	22,70
30126	12*	240	70	17	6,0 x 100	6,3 x 180	100	260	48,30	17,07	23,80

^{*}equal to 10 or 6 connections ** characteristic values for dimensioning according to EC 5 and strength class C 24 (ρ k 350 kg/m³)



For easier dimensioning use our HT-NT Tool online at www.sihga.com. Not all bores have to be screwed on. Follow the assembly instructions.







System Kit HobaFix® HF

SIHGA® Feature

for all HobaFix® HF models

contains 1 HobaFix® milling and assembly template HFFM, 1 HobaFix® milling cutter with stop ring HFF and fastening screws, allen key and Systemstift®

YOUR Benefit

the professional installation aid simplifies construction processes and saves time, milling and assembly templates are fully and portably combined with all accessories for practicality

for the rational and precise installation of knot connections











Application HobaFix® HF

1.



2.



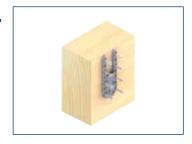
3.



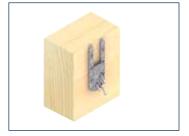
4.



5.



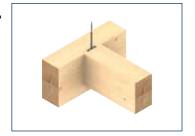
6.



7.



8.



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SIHGA® feature **YOUR** benefits

Connector for main beam - secondary beam constructions	Wood-wood or wood-concrete connections are possible with the HobaFix® Max (BeziFix anchors 7.5 x 80 for concrete must be ordered separately)
No screw collisions thanks to offset fastening screws	Multiple node connections of e.g.: four beams on one support can be created
With the sophisticated coupling of the connectors by means of thread-cutting screws, several connectors can also be mounted next to and on top of each other	The thread-cutting locking screws distribute the load equally over the entire height of the connector and fix the position of the two beams in relation to each other at the time of bolting. This ensures an assembly tolerance in the insertion direction for multiple arrangements
Flexibility in the connection mechanism	Due to the practical geometry of the connector, length tolerances of the secondary beam of up to -3 mm can be accommodated (with connector arrangement on both sides)
High static load capacity in six load cases, with up to 81,73 kN being characteristic per connection	Can be used for horizontal, vertical, tensile and torque loads with high tested static values
Excellent price-performance ratio	Thanks to the consistent profile geometry across all connector heights, an optimised manufacturing process helps save time and money
The different HobaFix® Max differ only in length and the number of screws	All connector sizes can be mounted with just one template
Developed, patented and manufactured in Austria	Highest European quality and added value
Made under supervised conditions from aluminium and anodised	Durable, dimensionally stable quality
Includes SIHGAFIX®, all fastening and fixing screws, assembly instructions	Time-saving, practical, precise; all accessories are included







SIHGA® TIP:

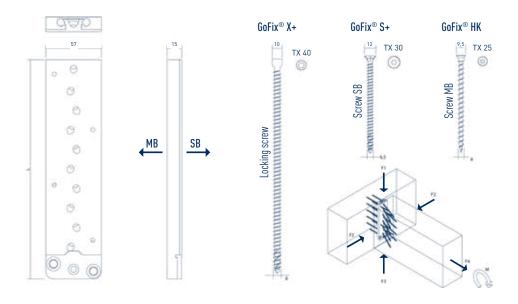
The screw connection of the two connector parts can also be made from the underside (in the case of non- milled applications).











SIHGA®		Dime	ension		Main	beam	Seconda	ry beam
montage- pack	HobaFix® Max	GoFix® HK in MB per connector	GoFix® S+ in SB per con- nector	2x locking screws GoFix® X+	min. width	min. height	min. width	min. height
Art. No. PU	Type (L)	6,0 x 100	6,5 x 100	8 x	[mm]	[mm]	[mm]	[mm]
31036 10	225	11	10	220	100	280	100	260
31046 10	265	13	12	245	100	320	100	300
31056 10	305	15	14	295	100	360	100	340
31066 10	345	17	16	330	120	400	120	380
31076 10	385	19	18	330	120	440	120	420
31086 10	425	21	20	330	120	480	120	460

montage- C24 [kNm] GL24h [kN pack Load direction [kN] Milled HFM** Load direction [kN] HF
Art. No. PU F_1 F_2 F_3 F_4 M_d F_1 F_2 F_3 F_4 M_d
31036 10 40,07 18,96 20,34 18,85 0,88 44,93 21,26 22,81 21,13 0,99
31046 10 46,42 22,34 23,48 21,85 2,30 52,05 25,05 26,32 24,50 2,58
31056 10 54,62 25,67 26,61 24,87 2,56 61,24 28,78 29,83 27,88 2,87
31066 10 60,78 28,95 29,49 27,87 2,72 68,15 32,46 33,06 31,25 3,05
31076 10 66,88 32,19 32,59 30,89 3,41 74,98 36,09 36,54 34,63 3,82
31086 10 72,90 35,39 35,69 33,89 3,97 81,73 39,68 40,02 38,00 4,45

^{*} Characteristic values for design according to EC 5 and strength class C24 (ρ k 350 kg/m³); Gl24h (ρ k 385 kg/m³).

ATTENTION

The load-bearing capacity of the connection is only achieved after the two locking screws have been screwed in. The maximum hanging load for all sizes of the HobaFix® Max must not exceed 800 kg per connector.



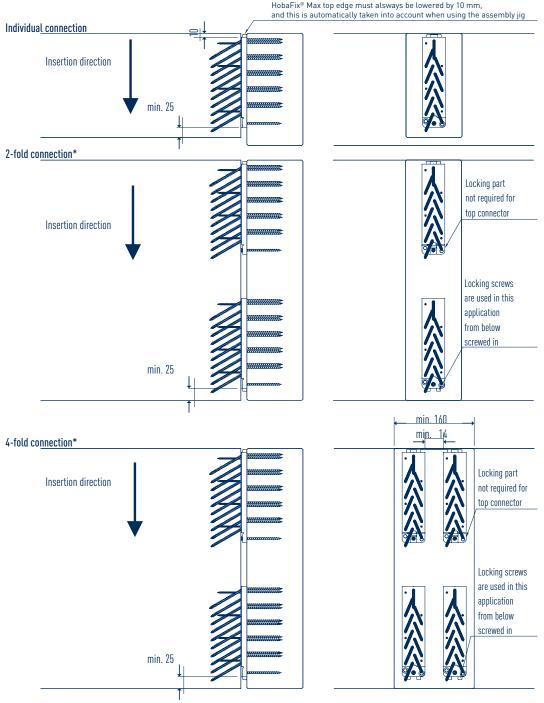




^{**} Value tested according to ÖNORM EN 26891, single connector milled in for minimum dimension.

^{***} In the case of double applications on top of each other, it must be noted that situation-related corner moments and other forces can arise. These must be taken into account in accordance with EN 1995-1-1 and the load-bearing capacity verified. If only shear forces are applied (F1 or F2 or F3), the max. characteristic load capacities given in the table can be multiplied by the actual number of connectors and reduced by the factor according to the table.

Multiple applications HobaFix® Max



^{*} In the case of multiple applications, it should be noted that situational corner torques and other forces may arise. These must be taken into account according to ETA-23/0821 and EN 1995-1-1 and the load-bearing capacity must be verified. In the case of exclusively transverse force application (F1 or F2 or F3), the max. characteristic load capacities given in the table can be multiplied by the actual number of connectors and reduced by a factor of 0.95.

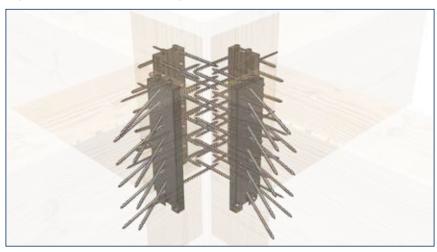


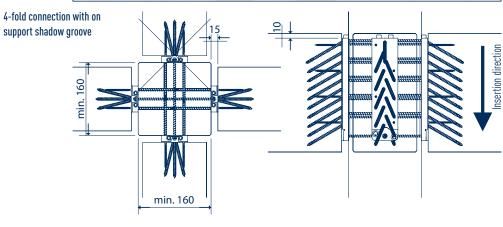


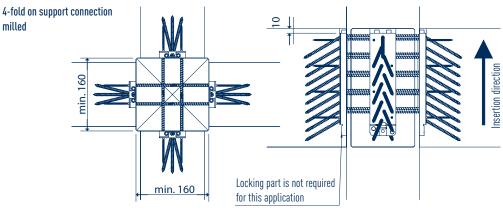




Multiple nodes on support HobaFix® Max









milled

SIHGA® TIP:

For applications of this type, the DUO bit TX 40, 350 mm is recommended so that the two locking screws can be screwed in





HobaFix® Max HFML milling assembly jig

SIHGA® feature

YOUR benefits

For all models of the HobaFix® Max	For the rational and precise assembly of HobaFix® Max on the main beam and on the secondary beam
Optimal in use with HobaFix® Max cutter (to be purchased separately)	The HobaFix® Max can be milled in one operation thanks to the coordinated cutter length and position of the thrust ring
The jig stop can be continuously adjusted in height and at an angle of up to 30°	Offers maximum flexibility
Developed and produced in Austria	Superlative European quality and added value

SIHGA®

HobaFix® Max	HobaFix® Max
HFML milling assembly jig	milling cutter
Art. No.	Art. No.
31606	29632







HFMF cutter



SIHGA® TIP:

In order to obtain a nice closed joint with the milled version, a milling depth of 15.5 mm is recommended. From the point of view of the secondary beam, the right-hand locking screw should be screwed in first to achieve a contraction effect. It is recommended that the first locking screw is screwed in halfway before the second screw is fully screwed in and then the first screw is finished.

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HobaFix® HFM

SIHGA® Feature

YOUR Benefit

for wall connections, corner connections, partition walls and privacy fence elements	one connector for all applications when installing wall elements, precise and accurate
the installation connector for mounting	for rational positioning, saves extensive work time
installation tolerance of 14 mm	the major advantage during installation, on site and in the factory: the high tolerance
elastic pre-tensioning	which is why HobaFix® HFM has a spring effect, a great help during installation
fastened in the installation groove to the wall element, 30 mm wide and 17 mm deep	good view of the connector at all times during installation, important for fast and accurate mounting
made from polyamide	HobaFix® HFM slides easily into the desired position - without abrasion
the static load per pair of connectors is characteristically 8.5 kN	tested value of the enclosed system screws in accordance with ETA approval
includes SIHGAFIX®, all fastening screws, Systemstift®, installation instructions	time-saving, practical, precise, complete accessories enclosed

SIHG	A ®	Di	mensio	n	Char	mfer	System Screws
montage	epack	Hob	aFix® H	FM	Depth	Width	GoFix® SK
Art. No.	PU	L	В	Н	[mm]	[mm]	d1 x L
30306	12*	176	28	32	17	30	6,0 x 70

^{*} corresponds to 6 connections



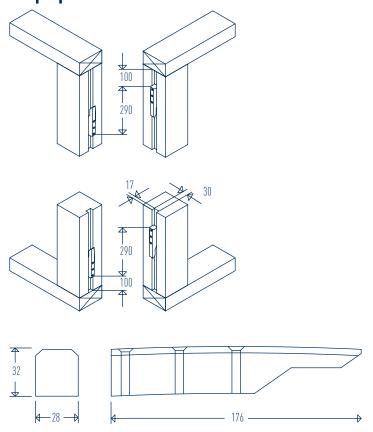


SIHGA® TIP:

We recommend two pairs of HobaFix® HFM per wall joint.



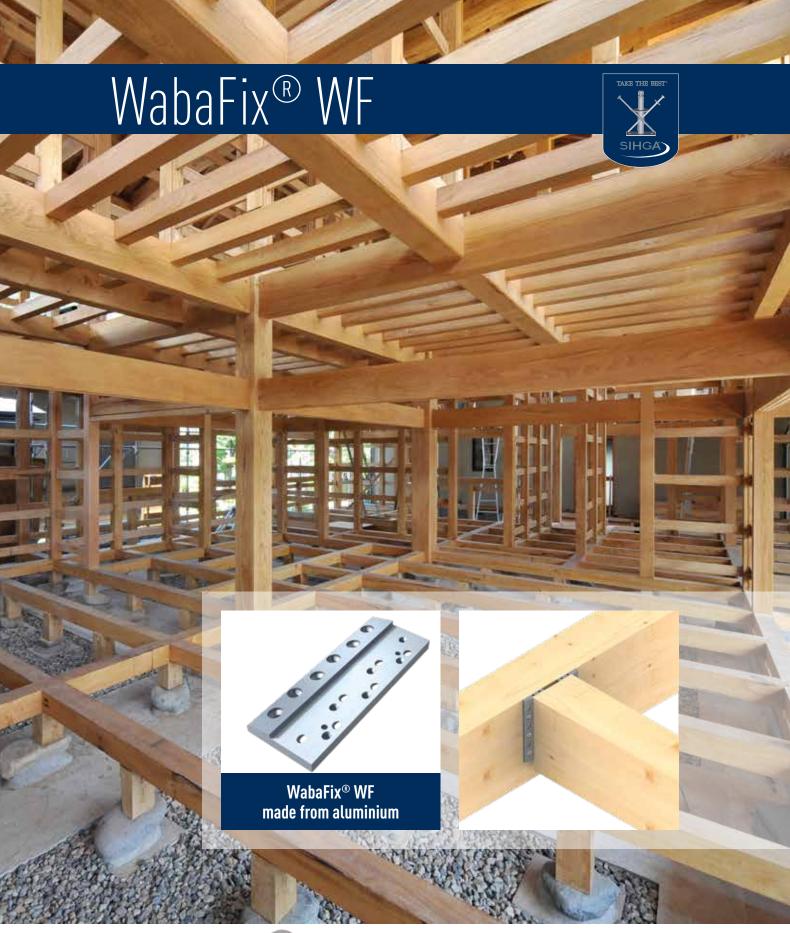
Application HobaFix® HFM







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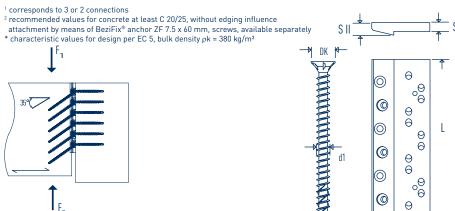


SIHGA® Feature

YOUR Benefit

universal heavy-load connection up to 94.72 kN per fastening point	beam and wall connections, ceiling beams and various wood constructions are fastened easily
developed, patented and made in Austria	local quality and added-value
load attachment without risk of abrasion during installation	through the screw connection with GoFix® S+ screws, transfers static load in four directions
for wall/beam connections, corner connections with wooden walls, partition wall fastening, wood cover fastening	WabaFix® can be loosened again later, particularly important for modular construction
fastening on concrete possible with BeziFix® anchors	also a great advantage for wall connections
monitored production from aluminium	permanent and dimensionally stable quality, rust-free
includes SIHGAFIX®, GoFix® screws, Systemstift® and installation instructions	time-saving, practical, precise, complete accessories enclosed
calculation values	SIHGA® performs the calculation for you

SIHG	A®	WabaFix®		ndary eam	Drill	Characteristic Values*			mmended V ood - Concr				
objektp	ack®	WF	Width	Height	GoFix® S+	Load Direction [kN] L			S+ Load Direction [kN] Load Direction [kN]				[kN]
Art. No.	PU	Туре	[mm]	[mm]	d1 x L	F ₁	F ₂	F ₃	F ₁	F ₂	F ₃		
43146	61	210	100	250	8,0 x 95	48,97	41,56	33,19	18,96	18,96	18,96		
43156	6 ¹	210	100	270	8,0 x 125	55,88	46,12	36,83	18,96	18,96	18,96		
43206	4 ¹	280	100	320	8,0 x 95	79,98	63,57	44,26	25,28	25,28	25,28		
43216	4 ¹	280	100	340	8,0 x 125	92,61	70,55	49,11	25,28	25,28	25,28		



Dimension [mm]

WabaFix® WF

Туре	L	В	S	SII
WF 210	210	79	12	17
WF 280	280	79	12	17



SIHGA® TIP:

For installation of WabaFix® on concrete, we recommend BeziFix® Anchor.





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Monitorix®

SIHGA® Feature **YOUR Benefit** developed and manufactured in Austria highest Austrian quality and value innovative monitoring system for moisture and creation State-of-the-art sensor technology water ingress in wooden building elements unobtrusive system, which can be easily integrated unobtrusive system components, easy to install during the building phase or renovation early detection of moisture ingress or condensate prevents costly repairs formation smart software solution compatible with all notification with precise location of the damage common terminals certified technology (expert opinion from TU secures the value of properties constructed from Chemnitz) immediate protection right after installation and ready to use right after activation during the entire useful life can be used in: flat roofs, wet rooms, bathrooms certainty that all materials used in construction and wooden structures - in all desired areas harmonise structurally-physically easy processing - you send us your floor plan and support by the SIHGA-Team we'll put together a non-binding offer for you

Big plus for you

In a property monitored with Monitorix® there will hardly be any cases that you will have to remedy under warranty. And that remains the case for a (building's) lifetime!



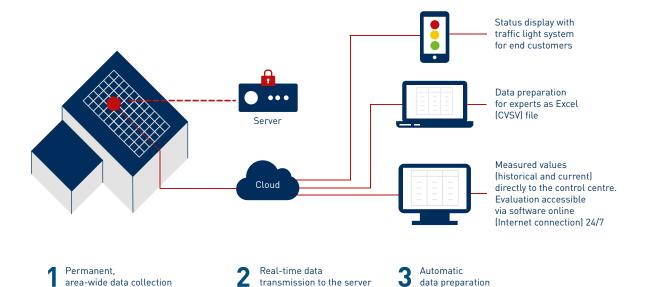


SIHGA® TIP:

Low building insurance premiums: 3 months free of premium on contract signing + 10 percent additional discount on mains water insurance with Zürich insurance.

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How it works



From practice



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