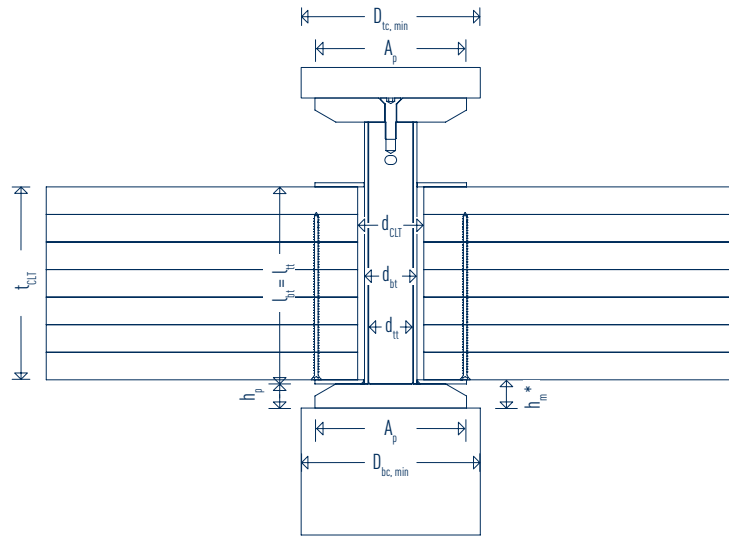


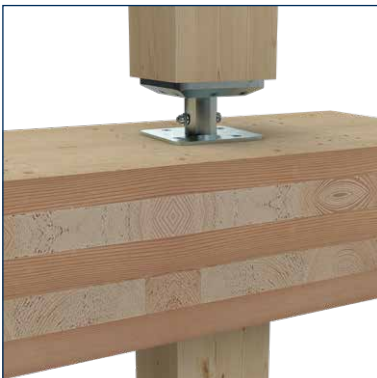
# Herakulix® Max

## TECHNICAL DATA SHEET



| SIHGA®<br>Herakulix® Max    | CLT panel             |     |     | Dimension             |                             |                        |                         |                         |                         |                         |                         |  |
|-----------------------------|-----------------------|-----|-----|-----------------------|-----------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--|
|                             | CLT thickness         |     |     | Drilling<br>CLT       | Bottom and<br>top plates    |                        | Bottom tube             |                         |                         | Top tube                |                         |  |
| Type                        | t <sub>CLT</sub> [mm] |     |     | D <sub>CLT</sub> [mm] | A <sub>p</sub><br>[mm x mm] | h <sub>p</sub><br>[mm] | d <sub>bt</sub><br>[mm] | t <sub>bt</sub><br>[mm] | l <sub>bt</sub><br>[mm] | d <sub>tt</sub><br>[mm] | l <sub>tt</sub><br>[mm] |  |
| <b>Herakulix® Max 180 M</b> | 160                   | 180 | 200 | 80                    | 180 x 180                   | 30                     | 60                      | 5                       | 290                     | 48                      | 290                     |  |
| <b>Herakulix® Max 180 L</b> | 220                   | 240 | 280 | 80                    | 180 x 180                   | 30                     | 60                      | 5                       | 370                     | 48                      | 370                     |  |
| <b>Herakulix® Max 220 M</b> | 160                   | 180 | 200 | 96                    | 220 x 220                   | 35                     | 76                      | 5                       | 300                     | 64                      | 300                     |  |
| <b>Herakulix® Max 220 L</b> | 220                   | 240 | 280 | 96                    | 220 x 220                   | 35                     | 76                      | 5                       | 380                     | 64                      | 380                     |  |
| <b>Herakulix® Max 260 M</b> | 160                   | 180 | 200 | 122                   | 260 x 260                   | 40                     | 102                     | 5                       | 305                     | 90                      | 305                     |  |
| <b>Herakulix® Max 260 L</b> | 220                   | 240 | 280 | 122                   | 260 x 260                   | 40                     | 102                     | 5                       | 385                     | 90                      | 385                     |  |

Distribution and fastening plates' area correspond with the bottom and top plates' area, with a thickness of 6 mm.



### DETAILS

- Connection solution for posts between ceilings in multi-storey CLT buildings
- Point-supported ceiling system possible
- Optimises vertical force transmission between the supports
- Reduces the need for additional beams/cross-beams
- Saves labour and reduces material requirements
- Material: S355 carbon steel, zinc-galvanised

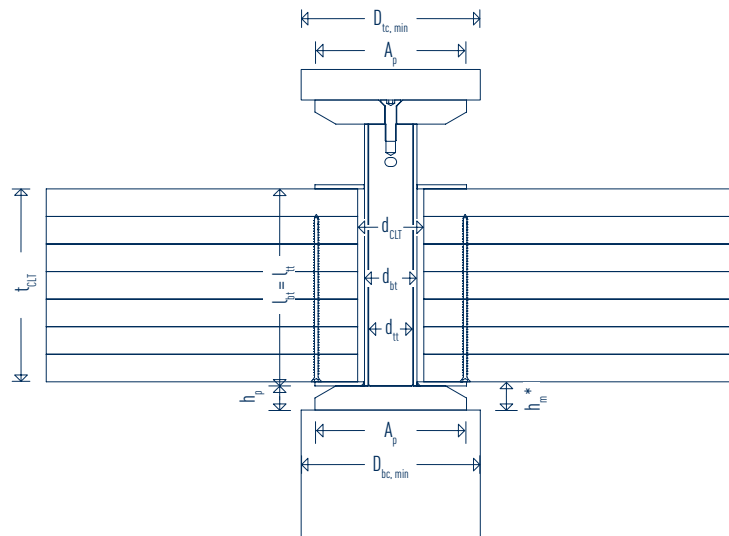
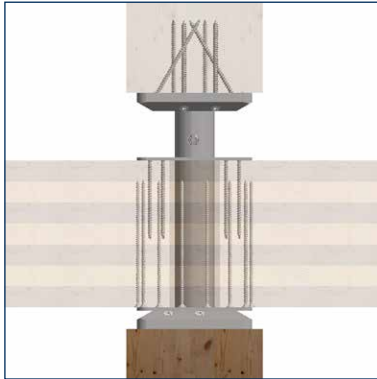
## TAKE THE BEST



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# Herakulix® Max

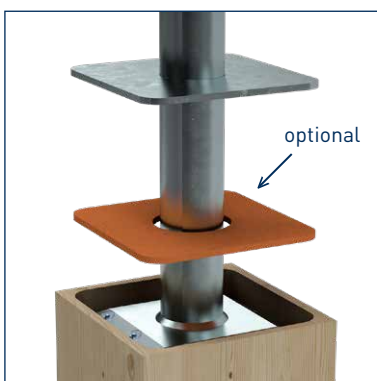
## TECHNICAL DATA SHEET



### CLT PANLES AND COLUMNS

| Herakulix® Max       | Bottom column               |                                  | Top column               | Drilling<br>CLT       | CLT thickness         |     |     | Assembly space      |     |    |
|----------------------|-----------------------------|----------------------------------|--------------------------|-----------------------|-----------------------|-----|-----|---------------------|-----|----|
| Type                 | D <sub>bc,min</sub><br>[mm] | h <sub>m</sub> <sup>*</sup> [mm] | D <sub>tc,min</sub> [mm] | D <sub>CLT</sub> [mm] | t <sub>CLT</sub> [mm] |     |     | S <sub>a</sub> [mm] |     |    |
| Herakulix® Max 180 M | 200                         | 42                               | 200                      | 80                    | 160                   | 180 | 200 | 124                 | 104 | 84 |
| Herakulix® Max 180 L | 200                         | 42                               | 200                      | 80                    | 220                   | 240 | 280 | 144                 | 124 | 84 |
| Herakulix® Max 220 M | 240                         | 47                               | 240                      | 96                    | 160                   | 180 | 200 | 134                 | 114 | 94 |
| Herakulix® Max 220 L | 240                         | 47                               | 240                      | 96                    | 220                   | 240 | 280 | 154                 | 134 | 94 |
| Herakulix® Max 260 M | 280                         | 52                               | 280                      | 122                   | 160                   | 180 | 200 | 139                 | 119 | 99 |
| Herakulix® Max 260 L | 280                         | 52                               | 280                      | 122                   | 220                   | 240 | 280 | 159                 | 139 | 99 |

\* The milling depth takes into account the use of a decoupling profile and load distribution plate. If the decoupling profile is omitted, the milling depth must be reduced by 6 mm.



### OPTIONAL DECOUPLING PROFILES

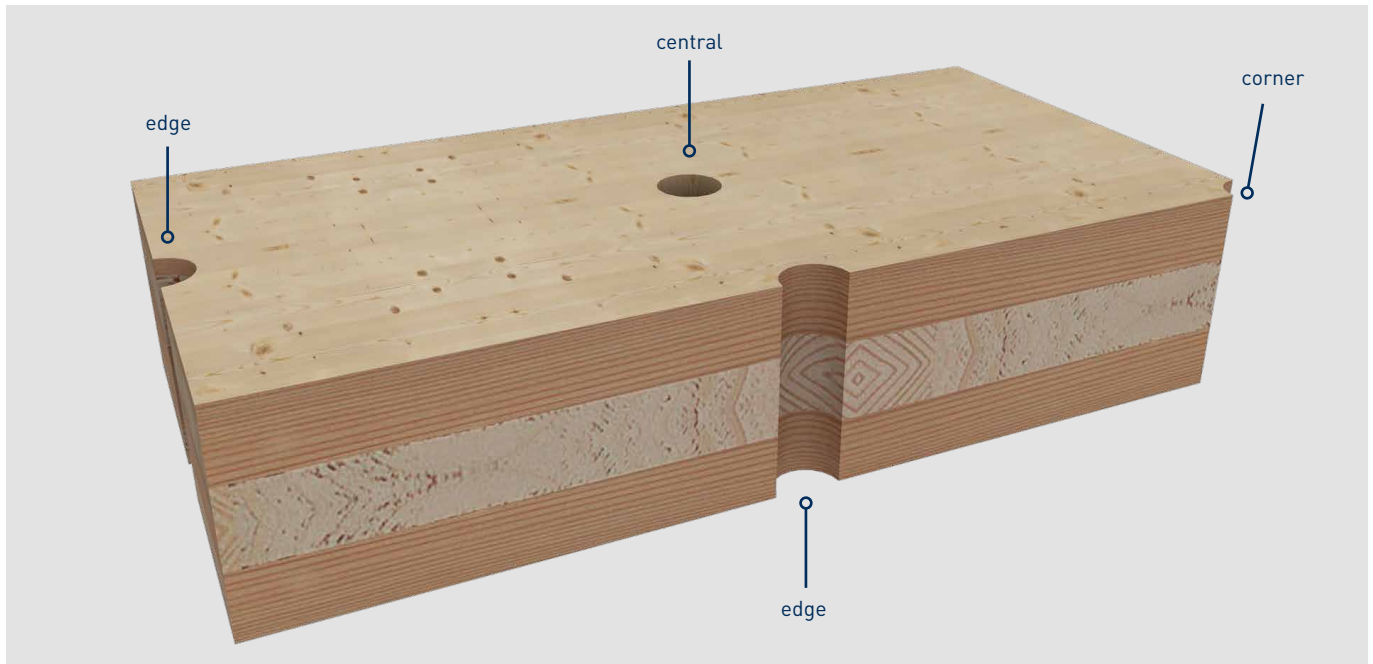
| Model                                       | To be combined with      |
|---------------------------------------------|--------------------------|
| Herakulix® Max decoupling profile 180 x 180 | Herakulix® Max 180 M / L |
| Herakulix® Max decoupling profile 220 x 220 | Herakulix® Max 220 M / L |
| Herakulix® Max decoupling profile 260 x 260 | Herakulix® Max 260 M / L |

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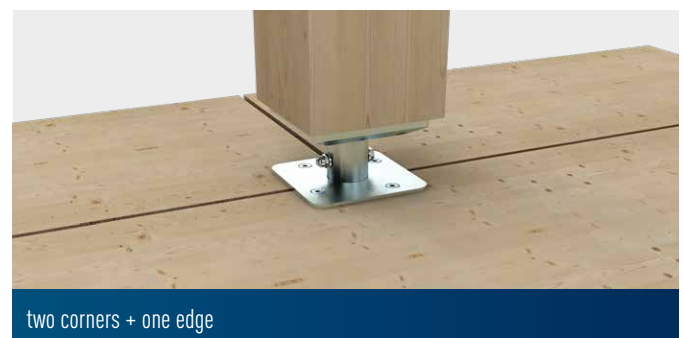
# Herakulix<sup>®</sup> Max

## TECHNICAL DATA SHEET

### POSSIBLE SUPPORT CONFIGURATIONS:



### COMBINED SUPPORT CONFIGURATIONS:



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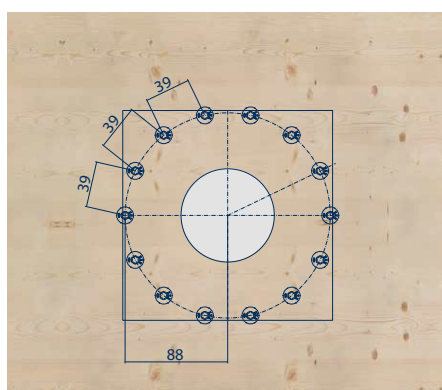
# Herakulix<sup>®</sup> Max

## TECHNICAL DATA SHEET

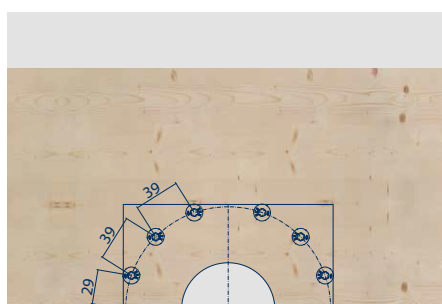
### SUPPORT (OPTIONAL):

#### Herakulix<sup>®</sup> Max 180 M / L

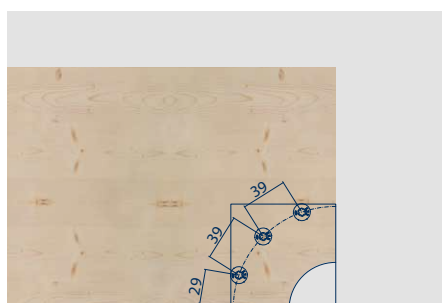
Drilling CLT:  $\varnothing \geq 80$  mm



Support central: 14 screws



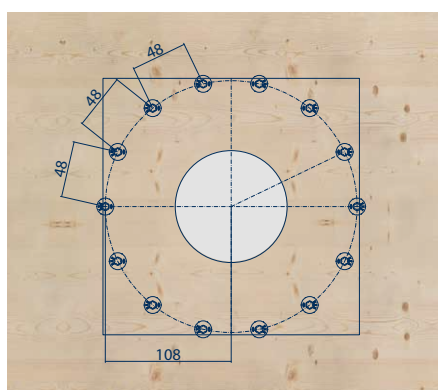
Support edge: 6 screws



Corner support: 3 screws

#### Herakulix<sup>®</sup> Max 220 M / L

Drilling CLT:  $\varnothing \geq 96$  mm



Support central: 14 screws



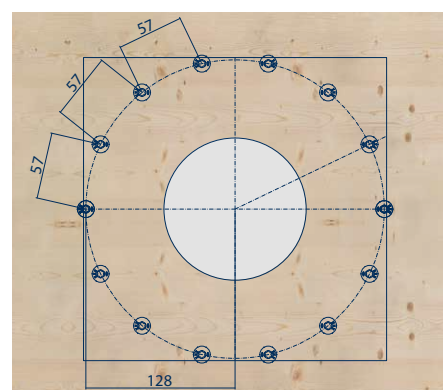
Support edge: 6 screws



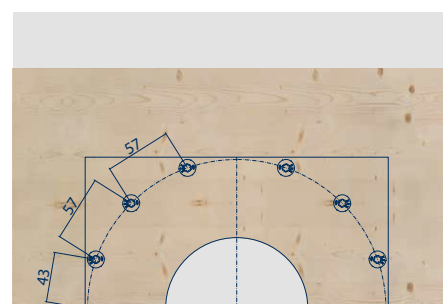
Corner support: 3 screws

#### Herakulix<sup>®</sup> Max 260 M / L

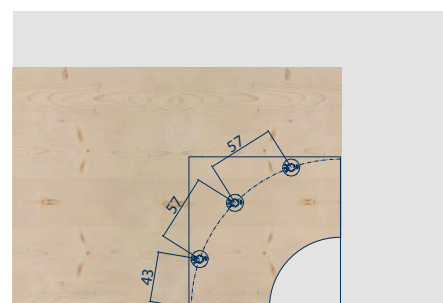
Drilling CLT:  $\varnothing \geq 122$  mm



Support central: 14 screws



Support edge: 6 screws



Corner support: 3 screws

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## TECHNICAL DATA SHEET

### HERAKULIX<sup>®</sup> MAX 180 M / L

Support dimensions 200 x 200 mm

#### Resistance to pressure perpendicular to the fibre for the CLT ceiling

| CLT panel          |                               | R <sub>BSP,k</sub> (with reinforcement) [kN] |        |        | R <sub>BSP,k</sub> (without reinforcement) [kN] |       |        |
|--------------------|-------------------------------|----------------------------------------------|--------|--------|-------------------------------------------------|-------|--------|
| CLT thickness [mm] | Length of reinforcement       | central                                      | edge   | corner | central                                         | edge  | corner |
| 160                | GoFix <sup>®</sup> S+ 8,0x155 | 159,90                                       | 79,28  | 38,85  | 122,90                                          | 71,58 | 35,79  |
| 180                | GoFix <sup>®</sup> S+ 8,0x155 | 159,90                                       | 79,28  | 38,85  | 122,90                                          | 71,58 | 35,79  |
| 200                | GoFix <sup>®</sup> S+ 8,0x195 | 185,11                                       | 91,88  | 45,15  | 122,90                                          | 71,58 | 35,79  |
| 220                | GoFix <sup>®</sup> S+ 8,0x195 | 185,11                                       | 91,88  | 45,15  | 122,90                                          | 71,58 | 35,79  |
| 240                | GoFix <sup>®</sup> S+ 8,0x220 | 200,86                                       | 99,76  | 49,09  | 122,90                                          | 71,58 | 35,79  |
| 260                | GoFix <sup>®</sup> S+ 8,0x245 | 216,62                                       | 107,63 | 53,03  | 122,90                                          | 71,58 | 35,79  |
| 280                | GoFix <sup>®</sup> S+ 8,0x270 | 232,37                                       | 115,51 | 56,97  | 122,90                                          | 71,58 | 35,79  |

#### Strength wood side

| Class | R <sub>c,k</sub> [kN] | R <sub>c,d</sub> [kN]* |
|-------|-----------------------|------------------------|
| C24   | 680                   | 418                    |
| GL24h | 777                   | 497                    |
| GL28h | 907                   | 580                    |

\* Partial safety factor  $\gamma_M = 1,3$  for solid wood and 1,25 for glulam.  $k_{mod} = 0,8$

#### Strength steel side

| Failure mode              | Place                                 | R <sub>steel,k</sub> [kN] | R <sub>steel,d</sub> [kN]** |
|---------------------------|---------------------------------------|---------------------------|-----------------------------|
| [Bending]                 | Upper and lower plate                 | 690                       | 627                         |
| Instability and buckling  | Hollow tube and solid rod, gross area | 903                       | 821                         |
| Compliance in compression | Hollow tube and solid rod, net area   | 615                       | 559                         |

\*\* Partial safety factor  $\gamma_M = 1,1$  for steel

TAKE THE BEST

# Herakulix<sup>®</sup> Max

## TECHNICAL DATA SHEET

### HERAKULIX<sup>®</sup> MAX 220 M / L

Support dimensions 240 x 240 mm

#### Resistance to pressure perpendicular to the fibre for the CLT ceiling

| CLT panel          |                               | R <sub>BSP,k</sub> (with reinforcement) [kN] |        |        | R <sub>BSP,k</sub> (without reinforcement) [kN] |        |        |
|--------------------|-------------------------------|----------------------------------------------|--------|--------|-------------------------------------------------|--------|--------|
| CLT thickness [mm] | Length of reinforcement       | central                                      | edge   | corner | central                                         | edge   | corner |
| 160                | GoFix <sup>®</sup> S+ 8,0x155 | 214,70                                       | 106,52 | 52,30  | 179,11                                          | 101,93 | 50,96  |
| 180                | GoFix <sup>®</sup> S+ 8,0x155 | 214,70                                       | 106,52 | 52,30  | 179,11                                          | 101,93 | 50,96  |
| 200                | GoFix <sup>®</sup> S+ 8,0x195 | 245,51                                       | 121,93 | 60,00  | 179,11                                          | 101,93 | 50,96  |
| 220                | GoFix <sup>®</sup> S+ 8,0x195 | 245,51                                       | 121,93 | 60,00  | 179,11                                          | 101,93 | 50,96  |
| 240                | GoFix <sup>®</sup> S+ 8,0x220 | 264,76                                       | 131,56 | 64,82  | 179,11                                          | 101,93 | 50,96  |
| 260                | GoFix <sup>®</sup> S+ 8,0x245 | 284,02                                       | 141,18 | 69,63  | 179,11                                          | 101,93 | 50,96  |
| 280                | GoFix <sup>®</sup> S+ 8,0x270 | 303,27                                       | 150,81 | 74,44  | 179,11                                          | 101,93 | 50,96  |

#### Strength wood side

| Class | R <sub>c,k</sub> [kN] | R <sub>c,d</sub> [kN]* |
|-------|-----------------------|------------------------|
| C24   | 1016                  | 625                    |
| GL24h | 1161                  | 743                    |
| GL28h | 1355                  | 867                    |

\* Partial safety factor  $\gamma_M = 1,3$  for solid wood and 1,25 for glulam.  $k_{mod} = 0,8$

#### Strength steel side

| Failure mode              | Place                                 | R <sub>steel,k</sub> [kN] | R <sub>steel,d</sub> [kN]** |
|---------------------------|---------------------------------------|---------------------------|-----------------------------|
| [Bending]                 | Upper and lower plate                 | 1263                      | 1148                        |
| Instability and buckling  | Hollow tube and solid rod, gross area | 1462                      | 1330                        |
| Compliance in compression | Hollow tube and solid rod, net area   | 1107                      | 1006                        |

\*\* Partial safety factor  $\gamma_M = 1,1$  for steel

TAKE THE BEST

# Herakulix<sup>®</sup> Max

## TECHNICAL DATA SHEET

### HERAKULIX<sup>®</sup> MAX 260 M / L

Support dimensions 280 x 280 mm

#### Resistance to pressure perpendicular to the fibre for the CLT ceiling

| CLT panel          |                               | R <sub>BSP,k</sub> (with reinforcement) [kN] |        |        | R <sub>BSP,k</sub> (without reinforcement) [kN] |        |        |
|--------------------|-------------------------------|----------------------------------------------|--------|--------|-------------------------------------------------|--------|--------|
| CLT thickness [mm] | Length of reinforcement       | central                                      | edge   | corner | central                                         | edge   | corner |
| 160                | GoFix <sup>®</sup> S+ 8,0x155 | 271,90                                       | 134,97 | 66,35  | 238,91                                          | 134,08 | 67,04  |
| 180                | GoFix <sup>®</sup> S+ 8,0x155 | 271,90                                       | 134,97 | 66,35  | 238,91                                          | 134,08 | 67,04  |
| 200                | GoFix <sup>®</sup> S+ 8,0x195 | 308,31                                       | 153,18 | 75,45  | 238,91                                          | 134,08 | 67,04  |
| 220                | GoFix <sup>®</sup> S+ 8,0x195 | 308,31                                       | 153,18 | 75,45  | 238,91                                          | 134,08 | 67,04  |
| 240                | GoFix <sup>®</sup> S+ 8,0x220 | 331,06                                       | 164,56 | 81,14  | 238,91                                          | 134,08 | 67,04  |
| 260                | GoFix <sup>®</sup> S+ 8,0x245 | 353,82                                       | 175,93 | 86,83  | 238,91                                          | 134,08 | 67,04  |
| 280                | GoFix <sup>®</sup> S+ 8,0x270 | 376,58                                       | 187,31 | 92,52  | 238,91                                          | 134,08 | 67,04  |

#### Strength wood side

| Class | R <sub>c,k</sub> [kN] | R <sub>c,d</sub> [kN]* |
|-------|-----------------------|------------------------|
| C24   | 1622                  | 1038                   |
| GL24h | 1893                  | 1211                   |
| GL28h | 2163                  | 1385                   |

\* Partial safety factor  $\gamma_M = 1,3$  for solid wood and 1,25 for glulam.  $k_{mod} = 0,8$

#### Strength steel side

| Failure mode              | Place                                 | R <sub>steel,k</sub> [kN] | R <sub>steel,d</sub> [kN]** |
|---------------------------|---------------------------------------|---------------------------|-----------------------------|
| [Bending]                 | Upper and lower plate                 | 2045                      | 1859                        |
| Instability and buckling  | Hollow tube and solid rod, gross area | 2657                      | 2411                        |
| Compliance in compression | Hollow tube and solid rod, net area   | 2208                      | 2007                        |

\*\* Partial safety factor  $\gamma_M = 1,1$  for steel

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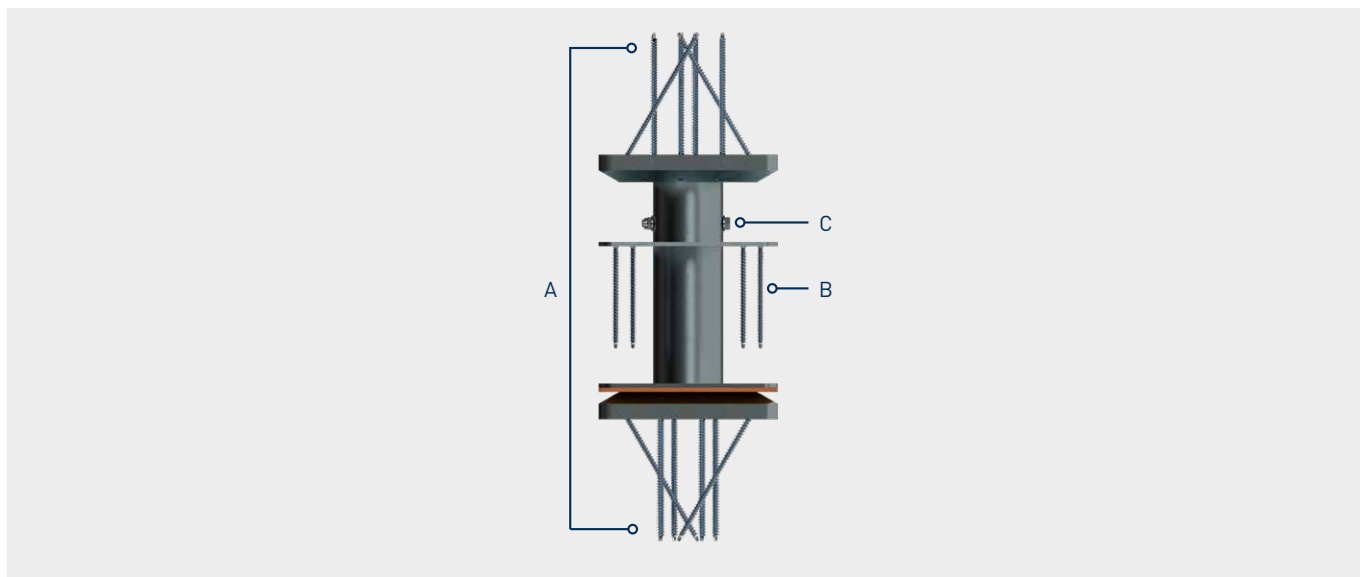


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# Herakulix® Max

## TECHNICAL DATA SHEET

### INCLUDED SCREWS



**Herakulix® Max 180 M / L**

**Herakulix® Max 220 M / L**

**Herakulix® Max 260 M / L**

| Position | 200 x 200 Baseplate                                            | 240 x 240 Baseplate                                             | 280 x 280 Baseplate                                             |
|----------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| A        | 16 x GoFix® S+ 8,0 x 155<br>(8 at top + 8 at bottom)           | 16 x GoFix® S+ 8,0 x 195<br>(8 at top + 8 at bottom)            | 16 x GoFix® S+ 8,0 x 245<br>(8 at top + 8 at bottom)            |
| B        | 4 x GoFix® S+ 10,0 x 155<br>anchoring                          | 4 x GoFix® S+ 10,0 x 155<br>anchoring                           | 4 x GoFix® S+ 10,0 x 155<br>anchoring                           |
| C        | M12 X L80 6kt-Exagon bolt with<br>2 x washers and M12 lock nut | M12 X L100 6kt-Exagon bolt with<br>2 x washers and M12 lock nut | M12 X L120 6kt-Exagon bolt with<br>2 x washers and M12 lock nut |

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