



EJOT® SUPER-SAPHIR **self-drilling screw JT3-D-12H-5.5/6.3**

Fastening sandwich panels to 3–10 mm steel substructure

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point



EJOT® SUPER-SAPHIR self-drilling screw JT3-D-12H-5.5/6.3

| Length [mm] | For sandwich panels [mm] | Clamp thickness [mm] | PU | Price/100 [EUR] | Order description | Article number |
|------------------------------------|--------------------------|----------------------|-----|-----------------|---------------------------|----------------|
| Sealing washer E16, Ø 16 mm | | | | | | |
| 75 | 36 - 40 | 36 - 48 | 250 | | JT3-D-12H-5.5/6.3x75-E16 | 3 557 511 312 |
| 95 | 48 - 60 | 46 - 68 | 200 | | JT3-D-12H-5.5/6.3x95-E16 | 3 554 911 311 |
| 115 | 58 - 80 | 56 - 88 | 200 | | JT3-D-12H-5.5/6.3x115-E16 | 3 555 211 311 |
| 135 | 72 - 100 | 68 - 108 | 150 | | JT3-D-12H-5.5/6.3x135-E16 | 3 555 411 311 |
| 155 | 92 - 120 | 88 - 128 | 150 | | JT3-D-12H-5.5/6.3x155-E16 | 3 555 711 311 |
| 175 | 110 - 140 | 108 - 148 | 150 | | JT3-D-12H-5.5/6.3x175-E16 | 3 556 511 312 |
| 195 | 130 - 160 | 128 - 168 | 150 | | JT3-D-12H-5.5/6.3x195-E16 | 3 559 511 312 |
| 245 | 170 - 210 | 167 - 218 | 100 | | JT3-D-12H-5.5/6.3x245-E16 | 3 559 811 312 |
| 275 | 200 - 240 | 197 - 248 | 100 | | JT3-D-12H-5.5/6.3x275-E16 | 3 557 311 312 |
| 300 | 225 - 265 | 222 - 273 | 100 | | JT3-D-12H-5.5/6.3x300-E16 | 3 557 411 312 |
| Sealing washer E19, Ø 19 mm | | | | | | |
| 75 | 36 - 40 | 36 - 48 | 200 | | JT3-D-12H-5.5/6.3x75-E19 | 3 557 566 312 |
| 95 | 48 - 60 | 46 - 68 | 200 | | JT3-D-12H-5.5/6.3x95-E19 | 3 554 966 311 |
| 115 | 58 - 80 | 56 - 88 | 150 | | JT3-D-12H-5.5/6.3x115-E19 | 3 555 266 311 |
| 135 | 72 - 100 | 68 - 108 | 150 | | JT3-D-12H-5.5/6.3x135-E19 | 3 555 466 311 |
| 155 | 92 - 120 | 88 - 128 | 100 | | JT3-D-12H-5.5/6.3x155-E19 | 3 555 766 311 |
| 175 | 110 - 140 | 108 - 148 | 100 | | JT3-D-12H-5.5/6.3x175-E19 | 3 556 566 312 |
| 195 | 130 - 160 | 128 - 168 | 100 | | JT3-D-12H-5.5/6.3x195-E19 | 3 559 566 312 |
| 245 | 170 - 210 | 167 - 218 | 100 | | JT3-D-12H-5.5/6.3x245-E19 | 3 559 866 312 |
| 275 | 200 - 240 | 197 - 248 | 100 | | JT3-D-12H-5.5/6.3x275-E19 | 3 557 366 312 |
| 300 | 225 - 265 | 222 - 273 | 100 | | JT3-D-12H-5.5/6.3x300-E19 | 3 557 466 312 |
| Sealing washer E22, Ø 22 mm | | | | | | |
| 75 | 36 - 40 | 36 - 48 | 200 | | JT3-D-12H-5.5/6.3x75-E22 | 3 557 513 312 |
| 95 | 48 - 60 | 46 - 68 | 200 | | JT3-D-12H-5.5/6.3x95-E22 | 3 554 913 311 |
| 115 | 58 - 80 | 56 - 88 | 150 | | JT3-D-12H-5.5/6.3x115-E22 | 3 555 213 311 |
| 135 | 72 - 100 | 68 - 108 | 100 | | JT3-D-12H-5.5/6.3x135-E22 | 3 555 413 311 |
| 155 | 92 - 120 | 88 - 128 | 100 | | JT3-D-12H-5.5/6.3x155-E22 | 3 555 713 311 |
| 175 | 110 - 140 | 108 - 148 | 100 | | JT3-D-12H-5.5/6.3x175-E22 | 3 556 513 312 |
| 195 | 130 - 160 | 128 - 168 | 100 | | JT3-D-12H-5.5/6.3x195-E22 | 3 559 513 312 |
| 245 | 170 - 210 | 167 - 218 | 50 | | JT3-D-12H-5.5/6.3x245-E22 | 3 559 813 312 |
| 275 | 200 - 240 | 197 - 248 | 50 | | JT3-D-12H-5.5/6.3x275-E22 | 3 557 313 312 |
| 300 | 225 - 265 | 222 - 273 | 50 | | JT3-D-12H-5.5/6.3x300-E22 | 3 557 413 312 |

Order information: Further lengths upon request.



Cross reference

- Accessories
- Self-drilling screw JT3-12-5.5
- Self-tapping screw JZ3-6.3
- Self-tapping screw JZ7-6.3
- Metal screwdriver SCS 6.3

Note

See relevant annexes of European technical approvals at the following pages.

Please download complete European technical approvals at our website:

www.ejot.es

Application area

- Fastening sandwich panels to 3–10 mm steel substructure

Properties

- A2 stainless steel with hardened drill point
- Stainless steel sealing washer
- Pre-assembled sealing washer
- With free spin zone under screw head
- High thread

Technical Data

| | |
|---------------|-------------|
| Drive | Hexagon AF8 |
| Ø screw | 5.5 mm |
| Ø high thread | 6.3 mm |

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| Minimum tensile strength | | Minimum shear strength | |
|--------------------------|------|------------------------|-----|
| | | | |
| Ø mm | kN | Ø mm | kN |
| 5.5 | 11.5 | 5.5 | 7.5 |

Self-drilling screws JF3/JT3

A2 stainless steel with hardened steel point / steel drill point



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ETA-13/0177 of 26 April 2013

English translation prepared by DIBt

Deutsches
Institut
für
Bautechnik



Materials:
Fastener: stainless steel (1.4301) – EN 10088
 stainless steel (1.4401) – EN 10088
Washer: stainless steel (1.4301) – EN 10088
Component I: S280GD – EN 10346
Component II: S235, S275 or S355 – EN 10025-1
 S280GD, S320GD or S350GD – EN 10346

Drilling capacity: $\Sigma(t_{N2} + t_{ij}) \leq 13,0$ mm

Timber supporting structures:
No performance determined

| t_{N1}, t_{N2}, d, D [mm] | 3,00 | 4,00 | 5,00 | 6,00 | t_{ij} [mm] | | | | |
|--------------------------------|------|------|------|------|---------------|------|------|---|---|
| | | | | | 8,00 | 10,0 | 12,0 | — | — |
| $V_{R,k}$ [kN] | 0,40 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | — | — |
| | 0,50 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | — | — |
| | 0,55 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | — | — |
| | 0,63 | 1,10 | 1,10 | 1,10 | 1,10 | 1,10 | 1,10 | — | — |
| | 0,75 | 1,60 | 1,60 | 1,60 | 1,60 | 1,60 | 1,60 | — | — |
| | 0,88 | 2,20 | 2,20 | 2,20 | 2,20 | 2,20 | 2,20 | — | — |
| | 1,00 | 2,90 | 2,90 | 2,90 | 2,90 | 2,90 | 2,90 | — | — |
| $N_{R,k}$ [kN] | 0,40 | 1,54 | 1,54 | 1,54 | 1,54 | 1,54 | 1,54 | — | — |
| | 0,50 | 1,60 | 1,60 | 1,60 | 1,60 | 1,60 | 1,60 | — | — |
| | 0,55 | 1,90 | 1,90 | 1,90 | 1,90 | 1,90 | 1,90 | — | — |
| | 0,63 | 2,20 | 2,20 | 2,20 | 2,20 | 2,20 | 2,20 | — | — |
| | 0,75 | 2,80 | 2,80 | 2,80 | 2,80 | 2,80 | 2,80 | — | — |
| | 0,88 | 3,00 | 3,50 | 3,50 | 3,50 | 3,50 | 3,50 | — | — |
| | 1,00 | 3,00 | 4,20 | 4,20 | 4,20 | 4,20 | 4,20 | — | — |
| max u [mm] | 40 | 14,0 | 7,0 | 6,0 | 5,0 | 5,0 | 5,0 | — | — |
| | 50 | 16,0 | 8,5 | 7,5 | 6,5 | 6,5 | 6,5 | — | — |
| | 60 | 18,5 | 10,0 | 9,0 | 8,0 | 8,0 | 8,0 | — | — |
| | 70 | 20,0 | 12,5 | 11,0 | 10,0 | 10,0 | 10,0 | — | — |
| | 80 | 22,0 | 15,0 | 13,5 | 12,0 | 12,0 | 12,0 | — | — |
| | 100 | 26,0 | 19,0 | 18,0 | 15,0 | 15,0 | 15,0 | — | — |
| | 120 | 29,0 | 22,5 | 20,0 | 18,0 | 18,0 | 18,0 | — | — |
| | 140 | 33,0 | 26,0 | 23,5 | 21,0 | 21,0 | 21,0 | — | — |
| ≥ 160 | 33,0 | 26,0 | 23,5 | 21,0 | 21,0 | 21,0 | — | — | |
| $M_{t,nom}$ [Nm] | | | | | | | | | |

| | | |
|---------------------------------------|--------------------------------|---------|
| Self drilling screw | | Annex 4 |
| EJOT® JT3-D-12H-5,5/6,3 x L | EJOT® JT6-D-12H-5,5/6,3 x L | |
| EJOT® JT3-D-FR-12H-5,5/6,3 x L | EJOT® JT6-D-FR-12H-5,5/6,3 x L | |
| with sealing washer $\geq \phi 16$ mm | | |

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