

**WDD** Self-drilling screw with EPDM washer  
for fixing steel sheets in wooden substrate

**NEW!**

**POLISH**  
PRODUCER



ETA-16/0443



**Description**

Carbon-steel self-drilling screw with EPDM washer for fixing steel sheets and steel roof tiles in timber substrate.

**Protective coating / Material**



**Technical parameters**

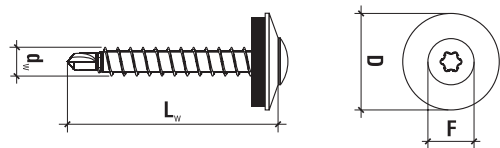
|                    |                |                                   |
|--------------------|----------------|-----------------------------------|
| Screw diameter     | $d_w$ [mm]     | 4.8                               |
| Drilling capacity  | $t_{max}$ [mm] | 2x1.25                            |
| Drive type         | -              | TX 20                             |
| Head height        | $k$ [mm]       | 2.0                               |
| Head diameter      | $F$ [mm]       | 9.0                               |
| Tip length         | [mm]           | 5.0                               |
| Washer (D)         | WDD/WDD-D      | aluminium/EPDM (A14)              |
| Screw material     | WDD/WDD-D      | heat-treated carbon steel         |
| Protective coating | WDD            | galvanized zinc coating min. 12µm |
|                    | WDD-D          | ceramic coating SQ                |
| Paint coating      | RAL            | powder min. 60 µm                 |
| Substrate material | timber         | min. C24                          |
| Technical approval | [-]            | ETA-16/0443                       |

**Features and advantages**

|   |   |
|---|---|
| Self-drilling tip                                 | Ability of drilling plates of thickness up to 2.5 mm, short time of fixing  |
| EPDM washer                                       | It seals and secures the connection from corrosion  |
| Possibility of painting according to RAL Palette  | Permanent colour adjusted to roof covering, resistant to UV radiation and atmospheric conditions                          |
| Flat head of screw with TORX-20 socket            | Modern shape of head provides aesthetic appearance of the connection, the head adjusts to the surface of the fixed plates |
| Anti-corrosion coating - electro-galvanized (WDD) | Thickness of zinc coating min. 12 µm, guarantee of quality and high level of anti-corrosion protection                    |
| Anti-corrosion coating - ceramic coating (WDD-D)  | Very high level of anti-corrosion protection (several times higher than the traditional galvanization)                    |

**Installation parameters**

|                          |                |         |
|--------------------------|----------------|---------|
| Screw diameter           | $d_w$ [mm]     | 4.8     |
| Min. substrate thickness | $h_{min}$ [mm] | 20 / 30 |
| Fastener anchorage depth | $h_{eff}$ [mm] | 20 / 30 |
| Min. spacing             | $S_{min}$ [mm] | 50      |
| Min. edge distance       | $C_{min}$ [mm] | 25      |



\* - made to order

### WDD Self-drilling screw with EPDM washer for fixing steel sheets in wooden substrate

| Ø    | Code      |                                       |                            |                            | d <sub>w</sub> x L <sub>w</sub><br>[mm] | Max. effective length<br>t <sub>fix</sub> [mm] |     |
|------|-----------|---------------------------------------|----------------------------|----------------------------|---|--|-----|
|      |           |                                       |                            |                            |   |  |     |
| ø4.8 | WDD-48035 | WDD-48035-RAL                         | WDD-D-48035                | WDD-D-48035-RAL            | 4.8 x 35                                | 5  | 250 |
|      |           | standard / made to order <sup>1</sup> | made to order <sup>2</sup> | made to order <sup>2</sup> |   |  |     |

<sup>1</sup> RAL colours other than our permanent offer (standard RAL colour chart) are available for orders of minimum 210000 pcs.

<sup>2</sup> Minimum order quantity per size & colour - 210000pcs

How to read the code, e.g.  
WDD-D-48035-3011?

|            |                    |                |             |             |
|------------|--------------------|----------------|-------------|-------------|
| <b>WDD</b> | <b>D</b>           | <b>48</b>      | <b>035</b>  | <b>3011</b> |
| Type       | Ceramic coating SQ | Diameter 4.8mm | Length 35mm | RAL 3011    |

#### Standard RAL colour chart

| Ral No. | Colour          | Ral No. | Colour          |
|---------|-----------------|---------|-----------------|
| 3005    | Wine red        | 7024    | Graphite grey   |
| 3009    | Oxide red       | 8004    | Copper brown    |
| 3011    | Brown red       | 8017    | Chocolate brown |
| 5005    | Signal blue     | 8019    | Grey brown      |
| 5010    | Gentian blue    | 9003    | Signal white    |
| 6005    | Moss green      | 9005    | Jet black       |
| 6020    | Chrome green    | 9006    | White aluminium |
| 7016    | Anthracite grey | 9010    | Pure white      |

Note: The colours in the catalogue are for reference only and may slightly differ from the original RAL colours.

#### Characteristic pull-out / shear strength [kN]

| Substrate  | Anchorage depth<br>h <sub>eff</sub> [mm] | Steel sheet thickness [mm] |             |             |             |             |             |
|------------|--|----------------------------|-------------|-------------|-------------|-------------|-------------|
|            |  | 0.50                       | 0.63        | 0.75        | 0.88        | 1.00        | 1.25        |
| Timber C24 | 20                                       | 1.24 / 1.10                | 1.24 / 1.50 | 1.24 / 1.74 | 1.24 / 1.74 | 1.24 / 1.74 | 1.24 / 1.74 |
|            | 30                                       | 1.73 / 1.10                | 1.73 / 1.50 | 1.73 / 1.74 | 1.73 / 1.74 | 1.73 / 1.74 | 1.73 / 1.74 |

Partial safety factor of 1.33 recommended