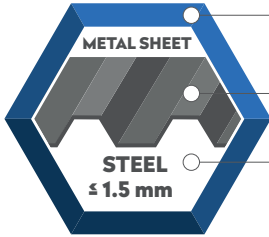




# SELF-DRILLING SCREW DP1

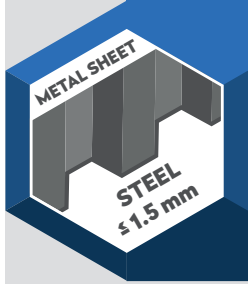
## APPLICATION



Galvanised

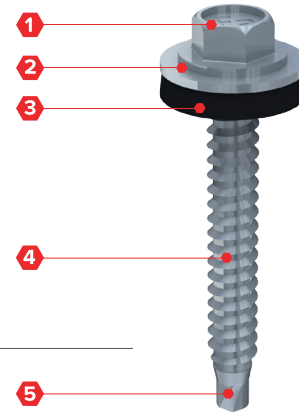
Metal sheet Screws

Steel ≤ 1,5 mm



## SPECIFICATION

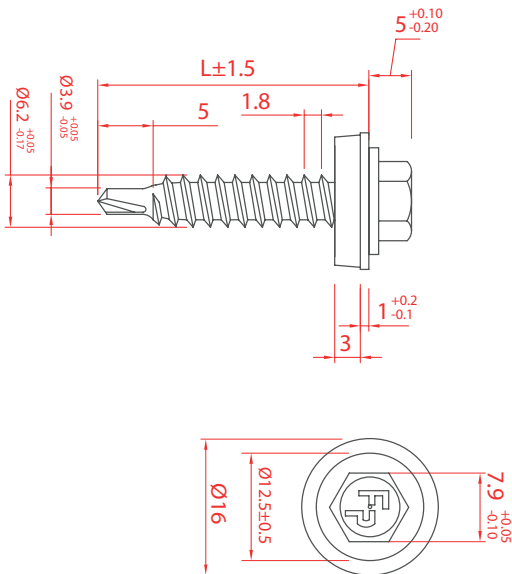
- 1 Head style 5/16" (8 mm)
- 2 Washer diameter standard 16 mm
- 3 Galvanised EPDM bond seal
- 4 Thread for substructure steel ≤ 1,5 mm
- 5 Drilling point 1



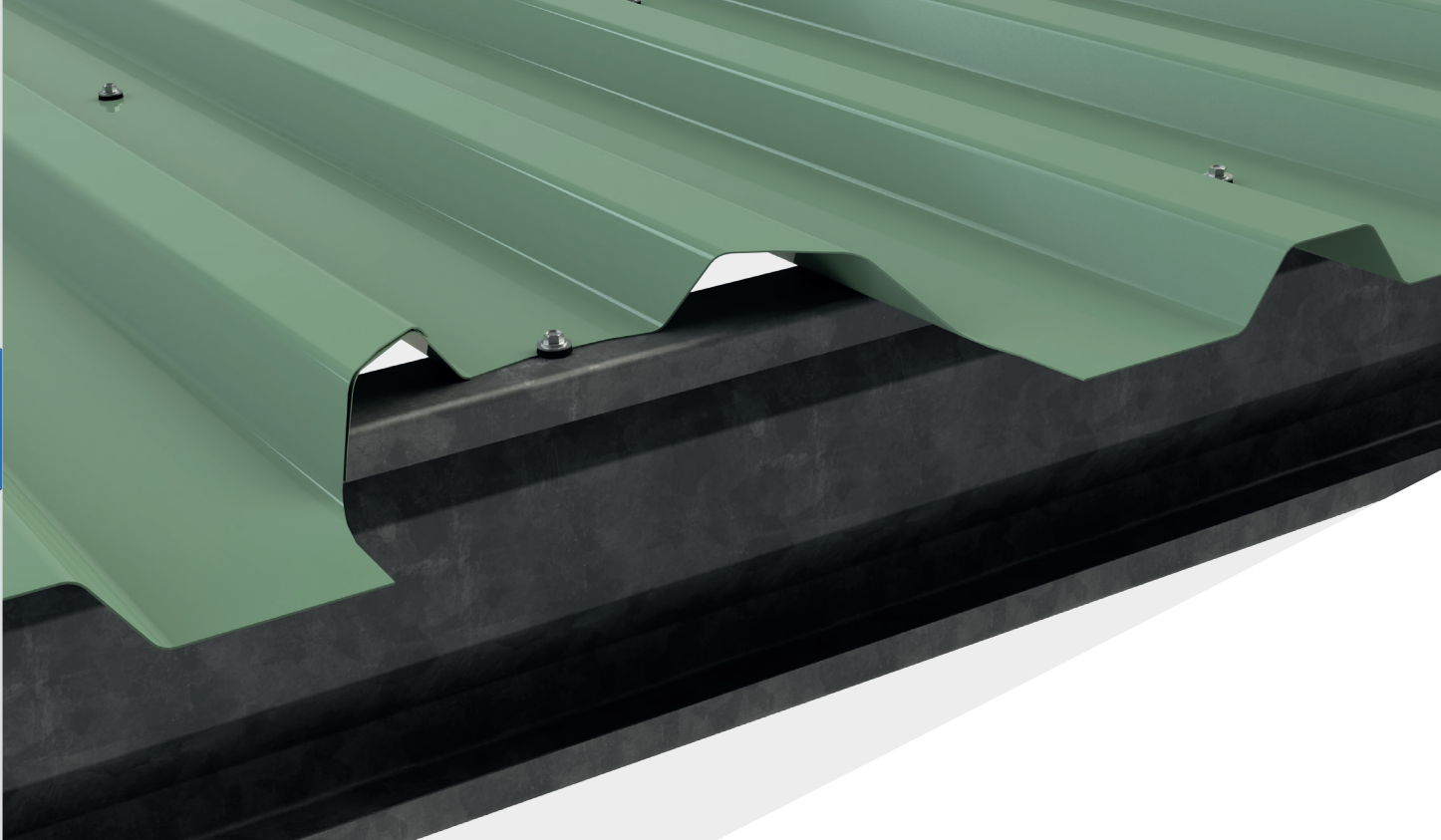
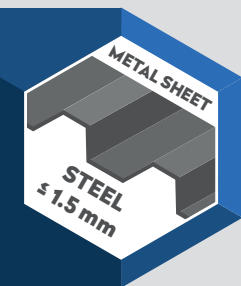
## OPTIONS

- 1 Powder coated in any desired RAL colour
- 2 Washer diameter 19 or 22 mm

## SECTION



METAL SHEETS - STEEL ≤ 1,5 MM - GALVANISED



**METAL SHEETS - STEEL ≤ 1,5 MM - GALVANISED**

## ORDER INFORMATION

| Product                            | Size (L) | Packaging   | Article code  |
|------------------------------------|----------|-------------|---------------|
| Self-Drilling Screw 6,3 x 40 - DP1 | 40 mm    | 250 pcs/box | 2004016304016 |



More information on materials, application, specific properties and certification can be found in chapter 10.



## CERTIFICATES

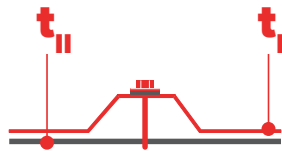
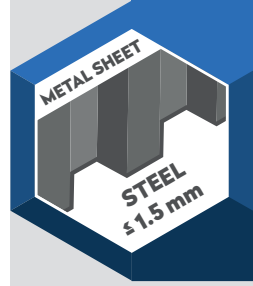




QUALITY  
CONFIRMED

**SELF-DRILLING SCREW 6,3 X L - DP1, WASHER DIAMETER Ø 16,0 MM**

| Materials                      |   |
|--------------------------------|---|
| Screw                          | Galvanised steel  |
| Washer                         | Galvanised steel  |
| Material A ( $t_{\perp}$ )     | S280GD, S320GD and S350GD conform EN 10346                          |
| Material B ( $t_{\parallel}$ ) | S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346 |
| Drilling capacity              | Steel $\leq 1,5$ mm   |



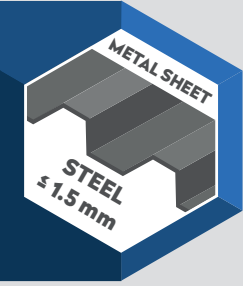
|   |             | $t_{\perp}$ [mm] | $t_{\parallel}$ [mm] |      |      |      |      |      |      |      |      |      |      |
|---|-------------|------------------|----------------------|------|------|------|------|------|------|------|------|------|------|
|   |             |                  | 0,40                 | 0,50 | 0,55 | 0,63 | 0,75 | 0,88 | 1,00 | 1,13 | 1,25 | 1,50 | 2,00 |
| <br>$V_{R,k}$ [kN] | <b>0,40</b> | 0,81             | 0,81                 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 |
|   | <b>0,50</b> | 0,81             | 1,36                 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 |
|   | <b>0,55</b> | 0,81             | 1,36                 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 |
|   | <b>0,63</b> | 0,81             | 1,36                 | 1,64 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 |
|   | <b>0,75</b> | 0,81             | 1,36                 | 1,64 | 2,08 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 |
|   | <b>0,88</b> | 0,81             | 1,36                 | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,00</b> | 0,81             | 1,36                 | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,13</b> | 0,81             | 1,36                 | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,25</b> | 0,81             | 1,36                 | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
| <br>$N_{R,k}$ [kN] | <b>0,40</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,29 | 1,29 | 1,29 | 1,29 | 1,29 | 1,29 |      |
|   | <b>0,50</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 1,98 | 1,98 | 1,98 | 1,98 |      |
|   | <b>0,55</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,21 | 2,21 | 2,21 |      |
|   | <b>0,63</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,57 | 2,57 |      |
|   | <b>0,75</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,12 |      |
|   | <b>0,88</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,12 |      |
|   | <b>1,00</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,12 |      |
|   | <b>1,13</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,12 |      |
|   | <b>1,25</b> | 0,38             | 0,66                 | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,12 |      |

**Note**



1. Above mentioned values are characteristic values.
2. To determine the design value we advise to apply a material factor of  $\gamma_m = 1,33$ .
3. You can find further information and calculation examples on page 10.1.7.

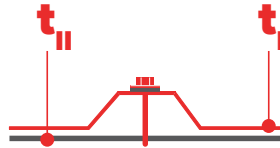
**METAL SHEETS - STEEL  $\leq 1,5$  MM - GALVANISED**

**SELF-DRILLING SCREW 6,3 X L - DP1, WASHER DIAMETER Ø 19,0 MM**


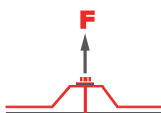


| Materials                               |   |
|---|---|
| <b>Screw</b>                            | Galvanised steel  |
| <b>Washer</b>                           | Galvanised steel  |
| <b>Material A (<math>t_I</math>)</b>    | S280GD, S320GD and S350GD conform EN 10346                          |
| <b>Material B (<math>t_{II}</math>)</b> | S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346 |
| <b>Drilling capacity</b>                | Steel ≤ 1,5 mm  |



**METAL SHEETS - STEEL ≤ 1,5 MM - GALVANISED**



|   |             | $t_{NI}$ [mm] | $t_{II}$ [mm] |      |      |      |      |      |      |      |      |      |      |
|---|-------------|---------------|---------------|------|------|------|------|------|------|------|------|------|------|
|   |             |               | 0,40          | 0,50 | 0,55 | 0,63 | 0,75 | 0,88 | 1,00 | 1,13 | 1,25 | 1,50 | 2,00 |
| <br>$V_{R,k}$ [kN] | <b>0,40</b> | 0,81          | 0,81          | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 |
|   | <b>0,50</b> | 0,81          | 1,36          | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 |
|   | <b>0,55</b> | 0,81          | 1,36          | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 |
|   | <b>0,63</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 |
|   | <b>0,75</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 |
|   | <b>0,88</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,00</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,13</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,25</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
| <br>$N_{R,k}$ [kN] | <b>0,40</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,42 | 1,42 | 1,42 | 1,42 | 1,42 | 1,42 |      |
|   | <b>0,50</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,46 | 2,46 |      |
|   | <b>0,55</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,60 | 2,60 |      |
|   | <b>0,63</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,81 | 2,81 |      |
|   | <b>0,75</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,14 |      |
|   | <b>0,88</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,14 |      |
|   | <b>1,00</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,14 |      |
|   | <b>1,13</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,14 |      |
|   | <b>1,25</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,14 |      |

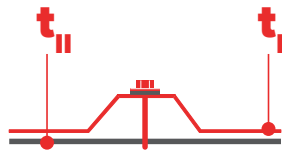
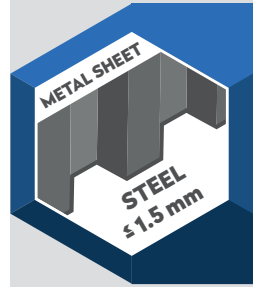
**Note**

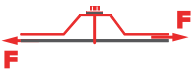

1. Above mentioned values are characteristic values.
2. To determine the design value we advise to apply a material factor of  $\gamma_m = 1,33$ .
3. You can find further information and calculation examples on page 10.1.7.

**SELF-DRILLING SCREW 6,3 X L - DP1, WASHER DIAMETER Ø 22,0 MM**

| Materials               |   |
|-------------------------|---|
| Screw                   | Galvanised steel  |
| Washer                  | Galvanised steel  |
| Material A ( $t_I$ )    | S280GD, S320GD and S350GD conform EN 10346                          |
| Material B ( $t_{II}$ ) | S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346 |
| Drilling capacity       | Steel $\leq 1,5$ mm   |



|   |             | $t_{NI}$ [mm] | $t_{II}$ [mm] |      |      |      |      |      |      |      |      |      |      |
|---|-------------|---------------|---------------|------|------|------|------|------|------|------|------|------|------|
|   |             |               | 0,40          | 0,50 | 0,55 | 0,63 | 0,75 | 0,88 | 1,00 | 1,13 | 1,25 | 1,50 | 2,00 |
| <br>$V_{R,k}$ [kN] | <b>0,40</b> | 0,81          | 0,81          | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 | 0,81 |
|   | <b>0,50</b> | 0,81          | 1,36          | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 | 1,36 |
|   | <b>0,55</b> | 0,81          | 1,36          | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 | 1,64 |
|   | <b>0,63</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 | 2,08 |
|   | <b>0,75</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 |
|   | <b>0,88</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,00</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,13</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
|   | <b>1,25</b> | 0,81          | 1,36          | 1,64 | 2,08 | 2,75 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 | 3,28 |
| <br>$N_{R,k}$ [kN] | <b>0,40</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 1,95 | 1,95 | 1,95 | 1,95 |      |
|   | <b>0,50</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,59 | 2,59 |      |
|   | <b>0,55</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,81 | 2,81 |      |
|   | <b>0,63</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,17 |      |
|   | <b>0,75</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,71 |      |
|   | <b>0,88</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,71 |      |
|   | <b>1,00</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,71 |      |
|   | <b>1,13</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,71 |      |
|   | <b>1,25</b> | 0,38          | 0,66          | 0,73 | 0,84 | 1,01 | 1,47 | 1,76 | 2,08 | 2,37 | 2,98 | 3,71 |      |

**Note**

1. Above mentioned values are characteristic values.
2. To determine the design value we advise to apply a material factor of  $\gamma_m = 1,33$ .
3. You can find further information and calculation examples on page 10.1.7.

**METAL SHEETS - STEEL  $\leq 1,5$  MM - GALVANISED**

