# TECHNICAL DATA SHEET N°4002

## DRILLNOX 3T TH8 – STAINLESS STEEL A4 – Ø 6.3 x L



ETA 25/0616

## PRODUCT DEFINITION

- Self-drilling screw Ø 6.3 mm bi-metal.
- Hex head of 8 mm.
- Ø 10.5 mm flange.
- A4 stainless steel.
- Natural or painted head.
- 1.81 mm pitch.
- Drill point.
- Can be mounted with a VULCA washer.

## APPLICATION

- Roofing: Stitching of steel and aluminium sheets.
- Cladding: Stitching of steel and aluminium sheets.
- Waterproofing ; Stitching of waterproofing support sheets.
- Very aggressive environment (off the seafront).

- Drilling capacity (CP): 2 to 3 x 0.75 mm of steel.

## MATERIAL & COATING

### Material:

- Screw body: Austenitic stainless steel A4 – 1.4404 - AISI 316L.
- Drill point and first threads: Treated carbon steel.
- VULCA washer: A2 (VI) stainless steel + EPDM (Ethylene Propylene Diene Monomer).

### Painting:

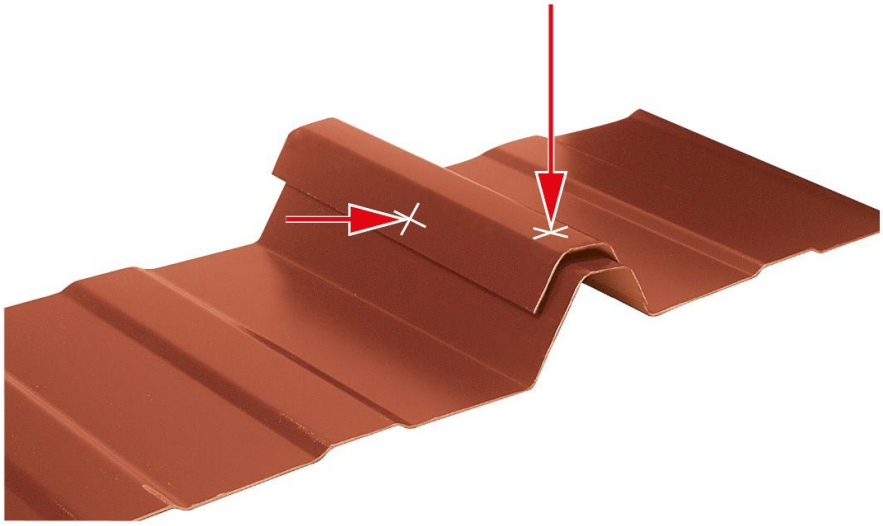
- Epoxy, polyester or polyurethane paint (wide range of colours available).
- Painting thickness according to TDS n° 4453.
- The colour coating only gives an aesthetic purpose. It does not prejudge nominal mechanical proprieties. On case of coating degradation, this product keeps its performance and does not derogate from the main function for which it is intended.

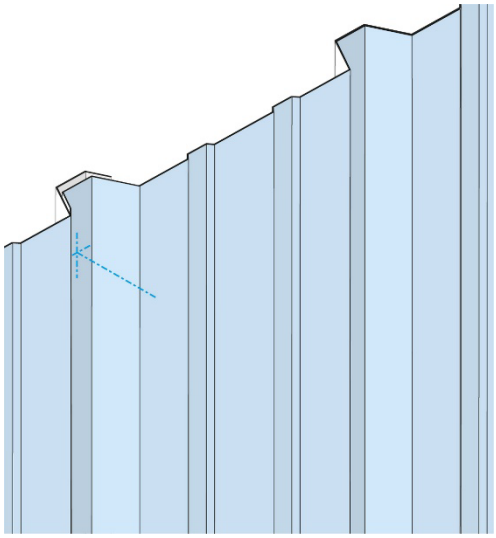
### Corrosion resistance:

- Screw Body:
  By Kesternich test according to NF EN ISO 22479:
  Resist to more 30 cycles without the appearance of red rust.
  By salt spray test according to NF EN ISO 9227:
  No trace of red rust after 1000 hours.
- Drill point and 1st threads with surface coating:
  By salt spray test according to NF EN ISO 9227:
  No trace of red rust after 200 hours.

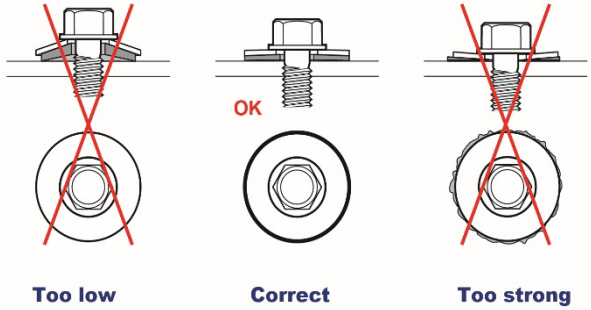

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## INSTALLATION





- The assembly is carried out using a FEIN ASCM 18-4 QM AS screwdriver with torque limiter and depth gauge with an 8 mm hexagonal socket.




### Unauthorized machines:

- Nutrunners, impact wrenches, impact screwdrivers are not suitable for assembly work and are strictly forbidden to use.

### Recommended tools:

- FEIN ASCM 18-4 QM AS battery-powered screwdriver set + 2 batteries and 1 charger (code: 321 688).
- Depth stop for FEIN ASCM 18-4 QM AS (code: 321 686).
- 8 mm Lg 65 mm hexagonal socket (code: 323 500).

### Associated products:

- DRILLNOX 3T INOX A2 TH8 Ø4,8xL (refer to TDS n° 4001).
- DRILLNOX 3 INOX A4 TH8 Ø 6.3xL (refer to TDS n° 4005).
- DRILLNOX 3,5 INOX A4 TH8 Ø5,5xL (refer to TDS n° 4006).
- DRILLNOX 6 INOX A4 TH8 Ø5,5xL (refer to TDS n° 4009).
- DRILLNOX 6 INOX A2 TH8 Ø5,5xL (refer to TDS no. 4584).
- DRILLNOX 12 INOX A4 TH8 Ø5,5xL (refer to TDS n° 4011).
- DRILLNOX 12 INOX A2 TH8 Ø5,5xL (refer to TDS n° 4586).
- DRILLNOX SPIRAL 18 INOX A4 TH8 Ø5,5xL (refer to TDS n° 4167).

## PERFORMANCE

Mechanical properties of the EPDM of the VULCA washer:

- Hardness : 58 ± 5 SHORE A.

Drilling time :

- Materials tested: S355 JR structural steel.
- Tools used: FEIN ASCM 18-4 QM AS screwdriver with torque limiter and depth gauge.

| Drilling test | Unit | Ø 6.3 |
|---|---|---|
| Drilling Time | dry/mm | < 2 |
| Rotational speed | RPM | 2000[1] |
| Axial load | daN | 27 |

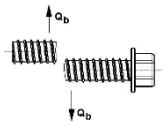
[1] Real under load: 1800 rpm

Characteristic resistances:

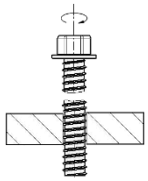
- Characteristic tensile strength: $\bar{x}$ = 1076 daN



- Characteristic shear strength – 0.6 x Rm: $\bar{x}$ = 645 daN

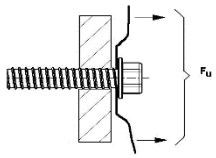



- Characteristic torsional strength: $\bar{x}$ = 14 Nm



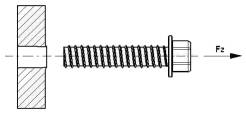
- Pull-out resistance (Pk) in accordance with the NF P 30-314 standard.

| Top Plate Steel | Steel support sheet | Pk to daN |
|---|---|---|
| S320 - 0.75 mm | S320 - 2 x 0.75 mm | 233 |
| S320 - 0.75 mm | S320 - 3 x 0.75 mm | 421 |
| The values indicated do not include safety factors | | |



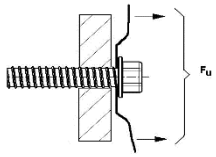

- Pull-out resistance (Pk) in accordance with the NF P 30-310 standard:

| Thickness of the support Steel | Pk to daN |
|---|---|
| S320 – 2 x 0.75 mm | 233 |
| S320 – 3 x 0.75 mm | 421 |
| The values indicated do not include safety factors | |



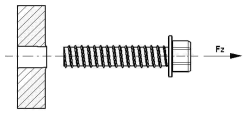

- *Pull-out strengths (NR,k) in accordance with EAD 330046-01-0602:

| Top Plate Steel | Steel support sheet | NR,k to daN |
|---|---|---|
| S280 to S320 - 0.75 mm | S280 to S320 - 2 x 0.75 mm | 260 |
| The values indicated do not include safety factors | | |




- Pull-out strengths (NR,k,II) in accordance with EAD 330046-01-0602:

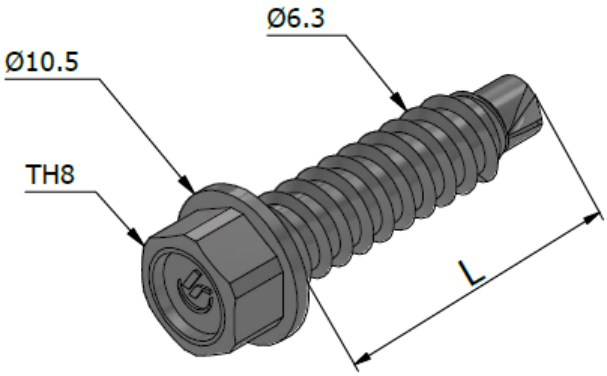
| Thickness of the support Steel | NR,k,II to daN |
|---|---|
| S280 to S320 – 2 x 0.75 mm | 260 |
| The values indicated do not include safety factors | |






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## DIMENSIONS & CODES




| Ø x L (mm) | CP (mm) | CS mini (mm) | CA maxi (mm) | Hex Head | VULCA washer | Cond. | Code Natural | Code lacquered |
|---|---|---|---|---|---|---|---|---|
| 6.3 x 25 | 2 to 3 x 0.75 | - | 6 | 8 | - | 100 | 372 399* | 372 418* |
| 6.3 x 25 + VI 14 | 2 to 3 x 0.75 | - | 4 | 8 | 14 | 100 | 372 416 | 372 417 |
| 6.3 x 25 + VI 16 | 2 to 3 x 0.75 | - | 4 | 8 | 16 | 100 | 372 400 | 372 405 |
| 6.3 x 25 + VI 19 | 2 to 3 x 0.75 | - | 3 | 8 | 19 | 100 | 372 402 | 372 406 |

* Product not CE marked.
Ø : Nominal diameter – L. : Length – CS mini: Minimum clamping capacity – CA maxi: Maximum assembly capacity – CP : Drilling capacity – Cond. : Packaging



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## CONFORMITY

- European Technical Assessment No. 25/0616 issued by ETA-DANMARK according to European Assessment Document 330046-01-0602.
- According with NF DTU 40.35: Ribbed plate roofing from coated steel sheets.
- According with NF DTU 40.36: Roof made of ribbed aluminium sheets, pre-painted or not.
- According with NF DTU 43.3: Installation of corrugated steel roofing with a waterproofing coating.
- According with RAGE Professional Recommendations: Protected Steel and Stainless-Steel Cladding.
- The characteristic resistances are the result of tests carried out by the LR ETANCO laboratory.
- Reaction to fire: A1 according to NF EN 13501-1 (only for the screw).

## MARKING & LABELLING

- On packaging, natural screw: DRILLNOX 3T TH8 A4 – Ø 6.3 x L + CODE.
- On packaging, painted screw: DRILLNOX 3T TH8 A4 – Ø 6.3 x L + COLOUR + CODE.
- On packaging, natural screw with washer: DRILLNOX 3T TH8 A4 – Ø 6.3 x L + VI Ø + CODE.
- On packaging, painted screw with washer: DRILLNOX 3T TH8 A4 – Ø 6.3 x L + VI Ø + COLOUR + CODE.

## QUALITY CONTROL

- ISO 9001 certified quality management system according to certificate in force.

## NOTE

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**Registration date: 26/06/2026 – Revision G**

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