

DRILLNOX 3T TH8 – STAINLESS STEEL A2 – Ø 4.8 x L



PRODUCT DEFINITION

- Self-drilling screw Ø 4.8 mm bi-metal.
- Hex head of 8 mm.
- Ø 10.5 mm flange.
- A2 stainless steel.
- Natural or painted head.
- 1.59 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.
- 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 A2 – 1.4307 - AISI 304L.
- Drill point and first threads: Treated carbon steel.
- VULCA washer: A2 (VI) stainless steel + EPDM (Ethylene Propylene Diene Monomer).

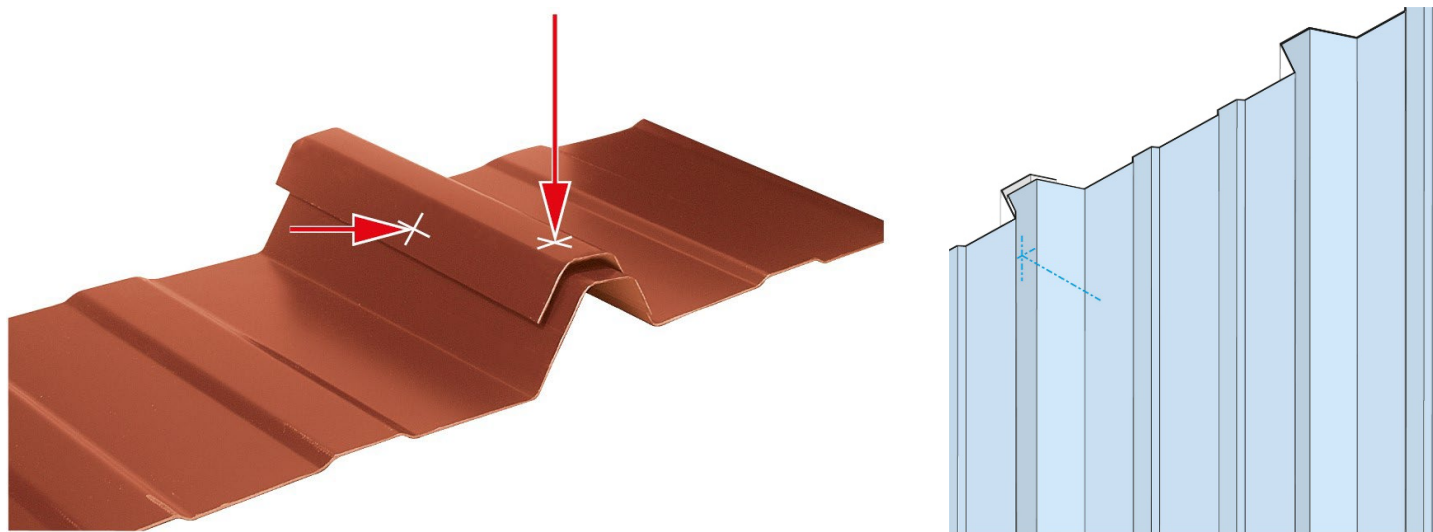
Painting:

- 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 prejudice 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.

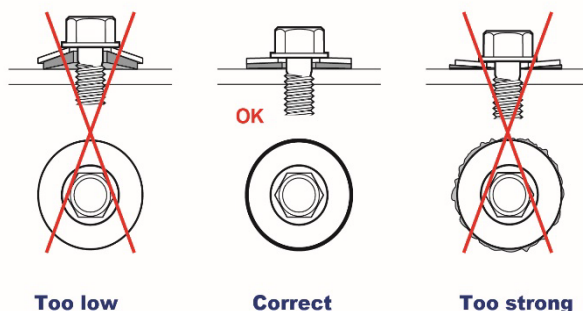
Corrosion resistance:

- 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.

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 A4 TH8 Ø6,3xL (refer to TDS n° 4002).
- 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 n° 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.

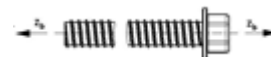
Drilling test	Unit	Ø 4.8
Drilling Time	dry/mm	< 2
Rotational speed	RPM	2000 ¹
Axial load	daN	16

¹ Real under load: 1800 rpm

Characteristic resistances:

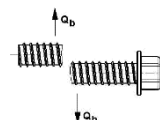
- Characteristic tensile strength:

$$\bar{X} = 570 \text{ daN}$$



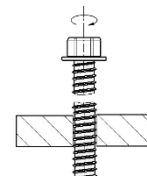
- Characteristic shear strength - $0.6 \times R_m$:

$$\bar{X} = 342 \text{ daN}$$



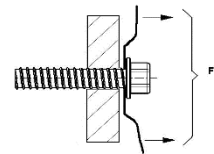
- Characteristic torsional strength:

$$\bar{X} = 6.5 \text{ Nm}$$



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

Top Plate Steel	Steel support sheet	Pk in daN
S320 - 0.75 mm	S320 - 2 x 0.75 mm	191
S320 - 0.75 mm	S320 - 3 x 0.75 mm	313
The values indicated do not include safety factors		



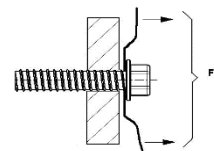
- Pull-out resistance (Pk) in accordance with the NF P 30-310 standard:

Thickness of the support Steel	Pk in daN
S320 - 2 x 0.75 mm	191
S320 - 3 x 0.75 mm	313
The values indicated do not include safety factors	



- *Pull-out strengths ($N_{R,k}$) in accordance with EAD 330046-01-0602:

Top Plate Steel	Steel support sheet	$N_{R,k}$ in daN
S280 to S320 - 0.75 mm	S280 to S320 - 0.75 mm	70
The values indicated do not include safety factors		

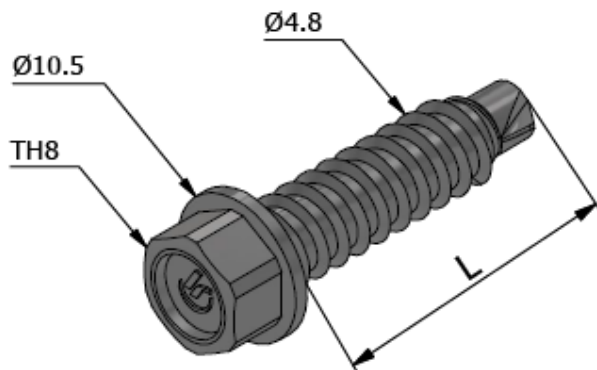


- Pull-out strengths ($N_{R,k,II}$) in accordance with EAD 330046-01-0602:

Thickness of the support Steel	$N_{R,k,II}$ in daN
S280 to S320 - 0.75 mm	70
The values indicated do not include safety factors	



DIMENSIONS & CODES



Ø x L (mm)	CP (mm)	CS mini (mm)	CA maxi (mm)	Hex Head	VULCA washer	Cond.	Code Natural	Code painted
4.8 x 20	2 to 3 x 0.75	-	5	8	-	100	372 493*	372 321*
4.8 x 20 + VI 14	2 to 3 x 0.75	-	3	8	14	100	372 483	372 494
4.8 x 20 + VI 16	2 to 3 x 0.75	-	3	8	16	100	372 492	372 322
4.8 x 20 + VI 19	2 to 3 x 0.75	-	2	8	19	100	372 484	372 707

* Product not CE marked.

Ø : Nominal diameter – L : Length – CS_{mini}: Minimum clamping capacity – CA maxi : Maximum assembly capacity – CP : Drilling capacity – Cond. : Packaging

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 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 A2 - Ø 4.8 x L + CODE.
- On packaging, painted screw: DRILLNOX 3T TH8 A2 - Ø 4.8 x L + COLOUR + CODE.
- On packaging, natural screw with washer: DRILLNOX 3T TH8 A2 - Ø 4.8 x L + VI Ø + CODE.
- On packaging, painted screw with washer: DRILLNOX 3T TH8 A2 - Ø 4.8 x L + VI Ø + COLOUR + CODE.

QUALITY CONTROL

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

NOTE

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