

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



PRODUCT DEFINITION

- Self-drilling screw Ø 6.3 mm bi-metal.
- Hexagonal 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: Fixing of steel sheet and aluminium sheet on the bottom on a metal frame (with Ø19 stainless steel VULCA washer).
- Cladding: Fixing of steel sheet on metal frame.
- Very aggressive environment (off the seafront).
- Drilling capacity (CP): 1.5 to 3 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).

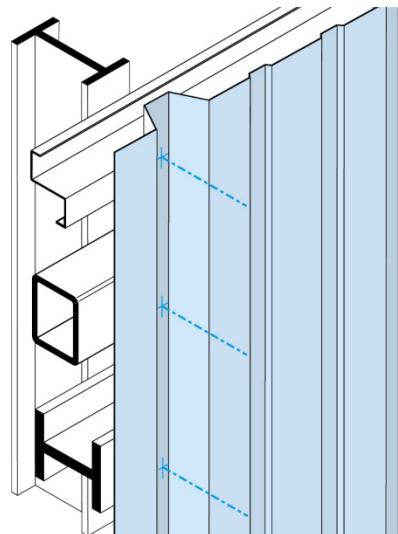
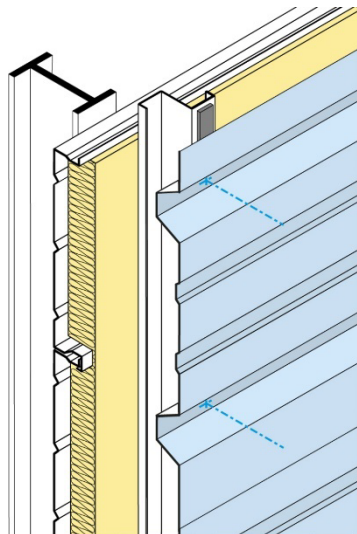
Painting:

- Epoxy, polyester or polyurethane paint (wide range of colours available).
- Painting thickness according to TDS n° 4453.
- The colour coating only gives an aesthetic character. It does not prejudice nominal mechanical strengths. In the event of degradation of the coating, this product retains its performance and does not deviate from the main function for which it is intended.

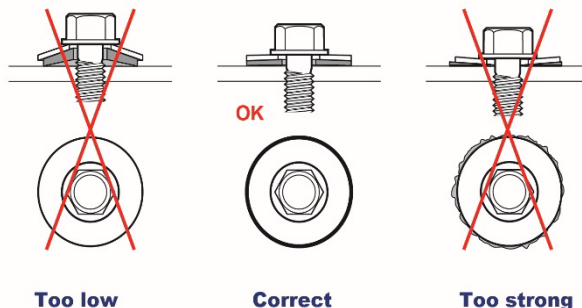
Corrosion resistance:

- 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:

- Bolters, impact wrenches, impact drivers 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 STAINLESS STEEL A2 TH8 Ø4,8xL (refer to TDS n° 4001).
- DRILLNOX 3T STAINLESS STEEL A4 TH8 Ø6,3xL (refer to TDS n° 4002).
- DRILLNOX 3,5 STAINLESS STEEL A4 TH8 Ø5,5xL (refer to TDS n° 4006).
- DRILLNOX 6 STAINLESS STEEL A2 TH8 Ø5,5xL (refer to TDS n° 4584).
- DRILLNOX 6 STAINLESS STEEL A4 TH8 Ø5,5xL (refer to TDS n° 4009).
- DRILLNOX 12 STAINLESS STEEL A2 TH8 Ø5,5xL (refer to TDS n° 4586).
- DRILLNOX 12 STAINLESS STEEL A4 TH8 Ø5,5xL (refer to TDS n° 4011).
- DRILLNOX SPIRAL 18 STAINLESS STEEL 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.

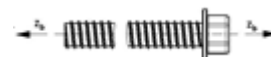
Drilling test	Unit	Ø 6.3
Drilling Time	dry/mm	< 2
Rotational speed	RPM	2000 ¹
Axial load	daN	27

¹ Real under load: 1800 rpm

Characteristic resistances:

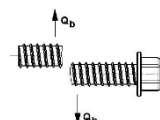
- Characteristic tensile Strength:

$$\bar{X} = 1076 \text{ daN}$$



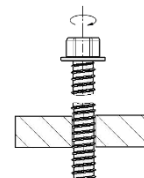
- Characteristic shear strength - $0.6 \times R_m$:

$$\bar{X} = 645 \text{ daN}$$



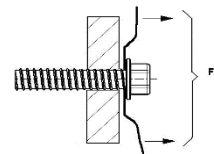
- Characteristic torsional strength:

$$\bar{X} = 14 \text{ Nm}$$



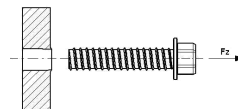
- Pull-out resistance (Pk) in accordance with the NF P 30-314 standard:

Top Plate Steel	Steel support sheet	Pk to daN
S320 - 0.75 mm	S320 - 1.5 mm	146
	S320 - 2 mm	208
	S320 - 2.5 mm	345
	S235 - 3 mm	482 ²
² Unbuttoning The values indicated do not include safety factors		



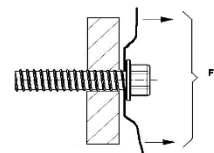
- Pull-out resistance (Pk) in accordance with the NF P 30-310 standard:

Thickness of the support Steel	Pk to daN
S320 - 1.5 mm	146
S320 - 2 mm	208
S320 - 2.5 mm	345
S235 - 3 mm	606
The values indicated do not include safety factors	



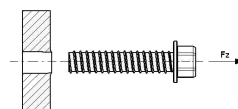
- Pull-out strengths (NR,k) in accordance with EAD 330046-01-0602:

Top Plate Steel	Steel support sheet	NR,k to daN
S280 to S320 - 0.75 mm	S235 to S320 - 2 mm	276
	S235 to S320 - 2.5 mm	292
	S235 to S235 - 3 mm	292
The values indicated do not include safety factors		

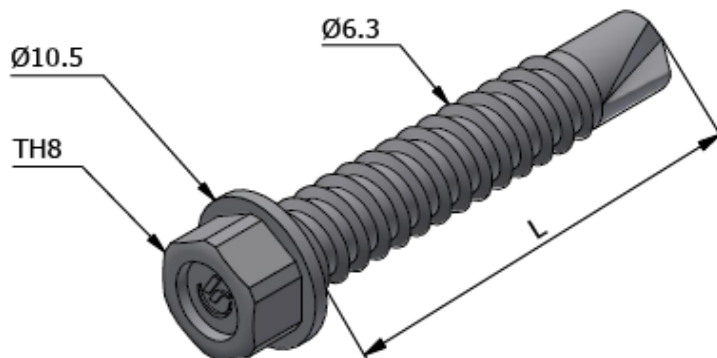


- Pull-out strengths (NR,k,II) in accordance with EAD 330046-01-0602:

Thickness of the support Steel	NR,k,II to daN
S235 to S320 - 2 mm	276
S235 to S320 - 2.5 mm	376
S235 to S235 - 3 mm	376
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
6.3 x 25	1.5 to 3	-	7	8	-	100	372 480*	-
6.3 x 25 + VI 14	1.5 to 3	-	5	8	14	100	372 655*	372 656*
6.3 x 25 + VI 16	1.5 to 3	-	5	8	16	100	372 485	372 486
6.3 x 25 + VI 19	1.5 to 3	-	4	8	19	100	372 487	372 491
6.3 x 35	1.5 to 3	-	17	8	-	100	372 650*	-
6.3 x 35 + VI 16	1.5 to 3	-	15	8	16	100	372 651	372 657
6.3 x 35 + VI 19	1.5 to 3	-	14	8	19	100	372 652	372 653

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