TECHNICAL DATA SHEET N°4003

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



ETA 10/0181



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

- Cladding: Fixing of steel sheet on wood framework.
- Very aggressive environment (off the seafront).

- Drilling capacity (CP): 1 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:

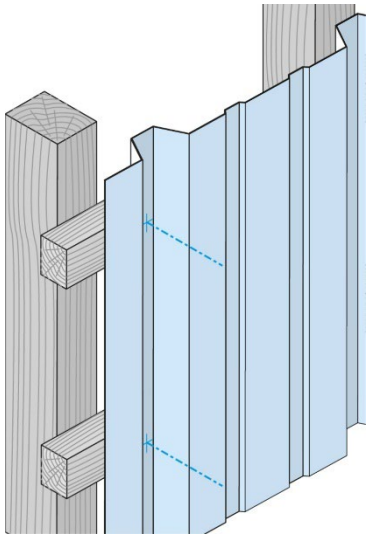
- Epoxy, polyester or polyurethane paint (wide range of colours available).
- Painting thickness according to TDS n° 4453.
- The colour coating only gives an aesthetic character. It does not prejudge nominal mechanical strengths. In the event of degradation of the coating, this product retains its performance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

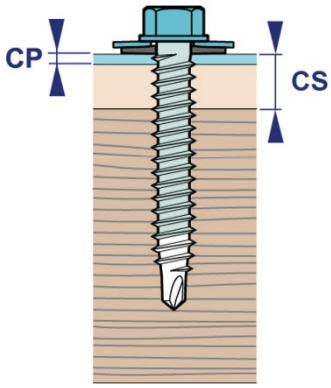
Corrosion resistance:

- 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.

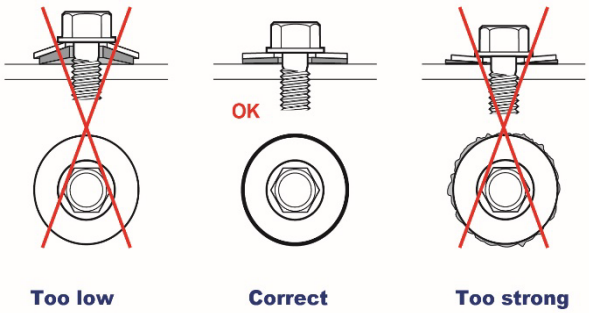
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INSTALLATION





- 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 WOOD INOX A4 TH8 Ø4,9xL (refer to TDS n° 4013).

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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

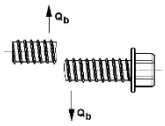
[1] Real under load: 1800 rpm

Characteristic resistances:

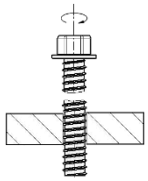
- Characteristic tensile Strength: $\bar{x}$ = 1076 daN



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

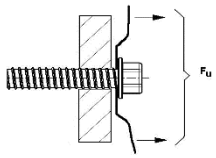


- Characteristic torsional strength: $\bar{x}$ = 14 Nm



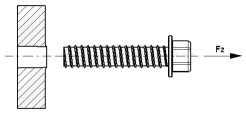
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- Pull-out resistance (Pk) in accordance with the NF P 30-314 standard.



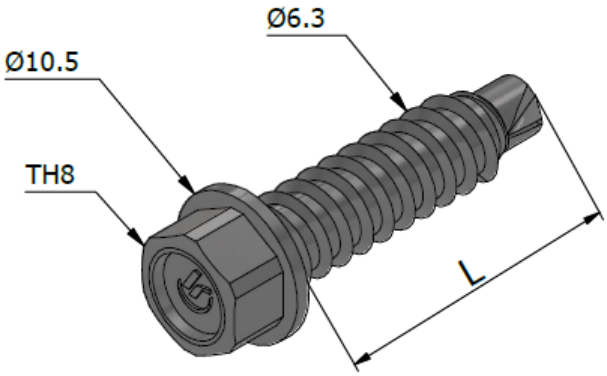
Top Plate Steel	Stand wood fir	Pk to daN
S320 - 0.75 mm	450 kg/m3 – Total anchorage	235 - Screws lg. 38 mm
S320 - 0.75 mm	450 kg/m3 – Total anchorage	541 - Screws lg. 60 mm
The values indicated do not include safety factors		

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



Thickness of the fir wood support	Pk to daN
450 kg/m3 – 50 mm anchor	415
The values indicated do not include safety factors	

DIMENSIONS & CODES



Ø x L (mm)	CP (mm)	CS mini (mm)	CS maxi (mm)	Hex Head	VULCA washer	Cond.	Code Natural	Code painted
6.3 x 38	1 to 3 x 0.75	-	4,25	8	-	100	372 419*	-
6.3 x 38 + VI 16	1 to 3 x 0.75	-	2,25	8	16	100	372 420	372 425
6.3 x 38 + VI 19	1 to 3 x 0.75	-	1,25	8	19	100	372 746	-
6.3 x 60	1 to 3 x 0.75	-	10	8	-	100	372 446*	372 662*
6.3 x 60 + VI 14	1 to 3 x 0.75	-	8	8	14	100	372 442*	372 443*
6.3 x 60 + VI 16	1 to 3 x 0.75	-	8	8	16	100	372 445	372 447
6.3 x 60 + VI 19	1 to 3 x 0.75	-	7	8	19	100	372 448	-

* Product not CE marked.
Ø: Nominal diameter – L.: Length – CS_{mini}: Minimum clamping capacity – CS_{maxi}: Maximum clamping capacity – CP: Drilling capacity – Cond.: Packaging

CONFORMITY

- European Technical Assessment No. 10/0181 issued by the DIBT according to the European Assessment Document 330046-01-0602.
- 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 WOOD TH8 A4 – Ø 6.3 x L + CODE.
- On packaging, painted screws: DRILLNOX WOOD TH8 A4 – Ø 6.3 x L + COLOUR + CODE.
- On packaging, natural screw with washer: DRILLNOX WOOD TH8 A4 – Ø 6.3 x L + VI Ø + CODE.
- On packaging, painted screw with washer: DRILLNOX WOOD 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

The information contained in this document is given in good faith and for general information purposes only. They reflect the state of our knowledge at the time of writing. As the possibilities of use of our products are numerous, and may be beyond our control, we cannot be held liable in any way in the event of misuse of our products. The information provided can only be considered as a suggestion for use without taking into account existing patents or national or local legal or regulatory requirements. The buyer is required to check whether the possession or use of our products is subject to special rules on its territory, in particular in terms of public affairs, health and safety of workers and consumers. It also assumes the sole responsibility of providing information and advice to the end user. Failure to comply with these regulations, regulations and duties cannot give rise to any liability under any circumstances.

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