

DRILLNOX 4 DF INOX A2 TH8 Ø 5,5 x L



ETE
25/0617

PRODUCT DEFINITION

- Self-drilling screw Ø 5.5 mm bi-metal.
- Double head thread Ø 7 mm (DF) or Ø 6.2 (DFN) with clean stop to avoid deformation of the outer skin of the sandwich panel.
- Hex head of 8 mm.
- Ø 10.5 mm flange.
- A2 stainless steel.
- Natural or painted head.
- 1.81 mm pitch.
- Drill point.
- Can be mounted with a VULCA washer.

APPLICATION

- Roofing: Fastening sandwich panels through the top of the corrugation (with saddle washer) on a wood frame.
- Cladding: Fastening sandwich panels on a wood frame.
- Aggressive environment (off the seafront).
- Drilling capacity (CP): 1.5 to 4 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:

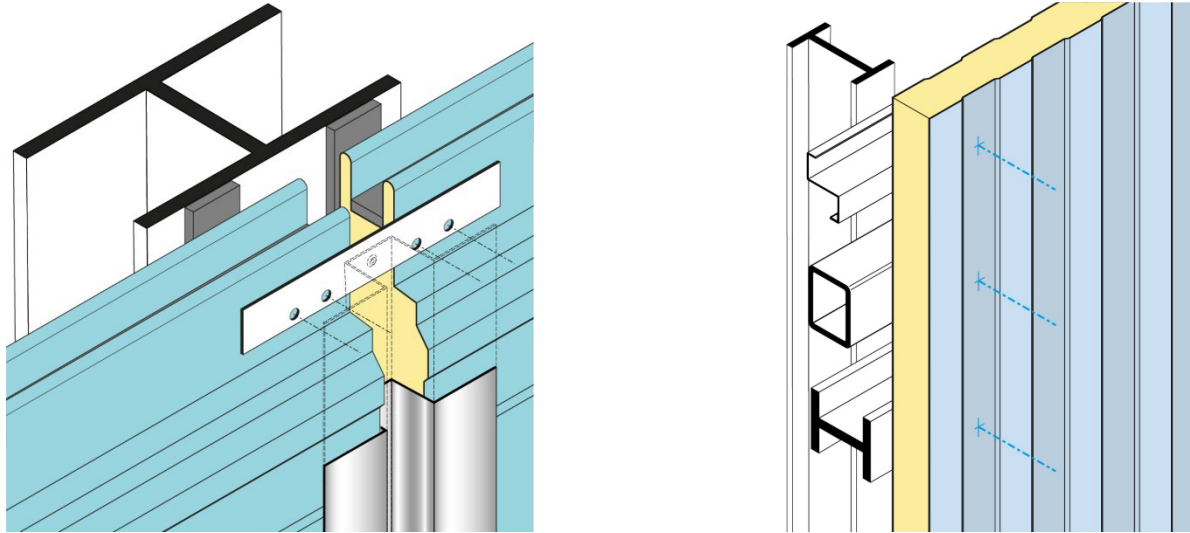
- Epoxy, polyester or polyurethane paint (large range of colours available).
- Painting thickness according to TDS n° 4453.

The colour coating only gives an aesthetic purpose. It does not affect nominal mechanical properties. On case of a coating deterioration, this product keeps its performance and does not derogate from the main function for which it is intended.

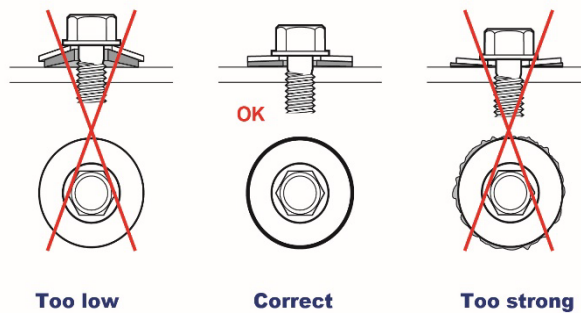
Corrosion resistance:

- 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.

IMPLEMENTATION



- 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 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).
- 3rd Hand Set for TH8 Screws (Code: 320 153).
- 8 mm Lg 65 mm hexagonal socket (code: 323 500).

Associated Products:

- DRILLNOX 4 DF INOX A4 TH8 Ø 5.5 x L (Refer to TDS n° 4008).
- Saddle washer for trapezoidal corrugation (Refer to roofing booklet).
- Saddle washer for Cladding (Refer to cladding booklet).

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 5,5
Drilling Time	dry/mm	< 2
Rotational speed	RPM	2000 *
Axial load	dan	20

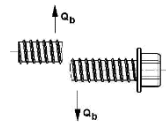
(*) Actual under load: 1800 rpm

Characteristic resistances:

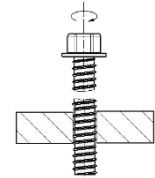
- Characteristic tensile Strength: $\bar{x} = 784 \text{ daN}$



- Characteristic shear strength - 0.6 x Rm: $\bar{x} = 470 \text{ daN}$



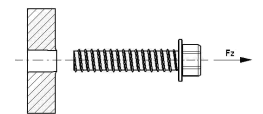
- Characteristic torque strength: $\bar{x} = 7.5 \text{ Nm}$



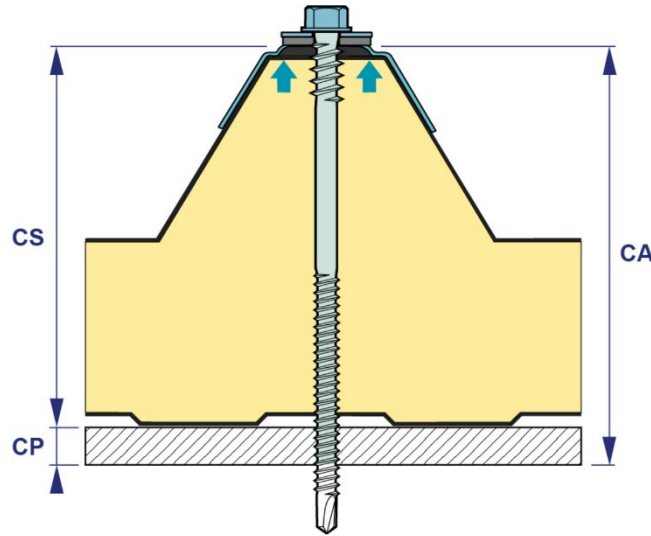
- Pull-out resistance (Pk) in accordance with the NF P 30-310 standard:

Thickness of the support Steel	Pk to daN
S320 - 1.5 mm	249
S320 - 2 mm	423
S320 - 2.5 mm	651
S235 - 3 mm	726
S235 - 4 mm	1073

The values indicated do not include safety factors



DIMENSIONS & CODES



Ø x L (mm)	CP (mm)	CS mini (mm)	Max turnover (mm)	Hex Head	VULCA washer	Cond.	Code Natural	Code Painted
5.5 x 70	1.5 to 4	27	51	8	-	100	377 000*	-
5.5 x 85	1.5 to 4	42	66	8	-	100	377 001*	-
5.5 x 85 + VI 16	1.5 to 4	40	64	8	16	100	377 041	377 051
5.5 x 85 + VI 19	1.5 to 4	40	64	8	19	100	377 061	377 071
5.5 x 85 + VI 22	1.5 to 4	39	63	8	22	100	377 081*	377 091*
5.5 x 110	1.5 to 4	67	91	8	-	100	377 002*	-
5.5 x 110 + VI 16	1.5 to 4	65	89	8	16	100	377 042	377 052
5.5 x 110 + VI 19	1.5 to 4	65	89	8	19	100	377 062	377 072
5.5 x 110 + VI 22	1.5 to 4	64	88	8	22	100	377 082*	-
5.5 x 110 + VI 25	1.5 to 4	64	88	8	25	100	377 102*	-
5.5 x 125	1.5 to 4	52	106	8	-	100	377 003*	377 013*
5.5 x 125 + VI 14	1.5 to 4	50	104	8	14	100	377 023*	377 033*
5.5 x 125 + VI 16	1.5 to 4	50	104	8	16	100	377 043	377 053
5.5 x 125 + VI 19	1.5 to 4	50	104	8	19	100	377 063	377 073
5.5 x 125 + VI 22	1.5 to 4	49	103	8	22	100	377 083*	377 093*
5.5 x 125 + VI 25	1.5 to 4	49	103	8	25	100	377 103*	-
5.5 x 145	1.5 to 4	72	126	8	-	100	377 004*	-
5.5 x 145 + VI 16	1.5 to 4	70	124	8	16	100	377 044	377 054
5.5 x 145 + VI 19	1.5 to 4	70	124	8	19	100	377 064	377 074
5.5 x 145 + VI 22	1.5 to 4	69	123	8	22	100	377 084*	377 094*
5.5 x 175	1.5 to 4	102	156	8	-	100	377 005*	377 015*
5.5 x 175 + VI 16	1.5 to 4	100	154	8	16	100	377 045	-
5.5 x 175 + VI 19	1.5 to 4	100	154	8	19	100	377 065	377 075
5.5 x 175 + VI 22	1.5 to 4	99	153	8	22	100	377 085*	377 095*
5.5 x 195	1.5 to 4	122	176	8	-	100	377 006*	-
5.5 x 195 + VI 19	1.5 to 4	120	174	8	19	100	377 066	377 076
5.5 x 215	1.5 to 4	142	196	8	-	100	377 007*	-
5.5 x 215 + VI 19	1.5 to 4	140	194	8	19	100	377 067	377 077

* Product not CE marked.

Ø : Nominal diameter - L : Length - CS_{mini}: Minimum build up - Maximum AC : Maximum build up - CP : Drilling capacity - Cond. : Packaging

Registration date: 09/07/2025 - Revision A

LR ETANCO is a member of:



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CONFORMITY

- European Technical Assessment No. 25/0617 ok by DIBT (with washer from Ø 16 to Ø 19 mm) according to European Assessment Document 330047-01-0602.
- According to NF DTU 40.35: Ribbed plate roofing from coated steel sheets.
- According to NF DTU 40.36: Cover made of ribbed aluminium sheets, pre-painted or not.
- According to the RAGE Professional Recommendations: CLADDING in sandwich panels with two steel facings and a polyurethane core.
- 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 4 DF TH8 A2 - Ø 5.5 x L + CODE.
- On packaging, painted screws: DRILLNOX 4 DF TH8 A2 - Ø 5.5 x L + COLOUR + CODE.
- On packaging, natural screw with washer: DRILLNOX 4 DF TH8 A2 - Ø 5.5 x L + VI Ø + CODE.
- On packaging, painted screw with washer: DRILLNOX 4 DF TH8 A2 - Ø 5.5 x L + VI Ø + COLOUR + CODE.

QUALITY CONTROL

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

NOTE

These products are intended for professional installers landlords whose the related service includes supply and installation. In accordance with rules and normative regulation, it's their responsibility to check that the use of these products is in conformity to themselves needs and their customers. They have to insure as well the adequacy of this material with their real operating conditions. The company excludes any guarantee for the use that does not respect these conditions. His responsibility is limited to the strict compliance with the specifications stipulated on the customer's purchase order. The guarantee is limited to the replacement of defective parts acknowledged by the Company's technical service, without workforce costs and travel expenses. It excludes material damage or physical injury and others direct or indirect damages, material or immaterial, which may result from defective parts including installation that not complying with the use for which they are designed and produced.

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