

**Manufacturer: ETANCO (FRANCE)**

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**Product name:**

## CANAL SPIRAL 18 TH8 2C Ø 6.3 x L

**Application:**

Cement-fiber sheets G.O.177 x 51 on steel beam

**Description:**

Self-drilling wing screw Ø 6.3 mm  
Hexagonal head of 8 mm natural finish or EPOXY powder painted stove hardened.  
Pitch 1.81 mm. Drill point.  
Fitted with VULCA Galva washer Ø30 mm

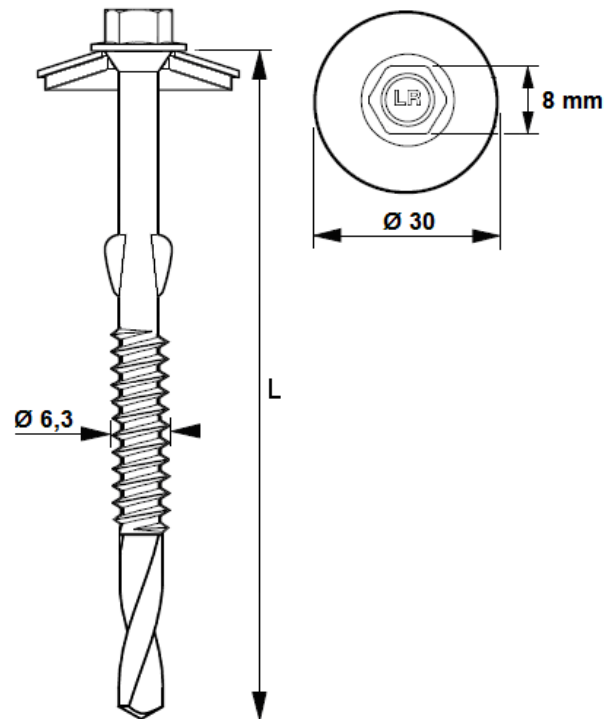
**Drilling capacity (CP):**

4 to 18 mm into steel sheet.

**Material:**

Screw body: Treated steel 20MB5 - SAE 1020 - JIS SWRCH22A.  
Surface hardness HV0.5 \_ 550 < HV < 750

Washer : Steel + vulcanized EPDM 3 mm thickness 70 Shore A



**Material, coating and anti-corrosion level tests:**

- **2C** : SUPRACOAT 2C coated cemented steel (12 to 20 µm)

Anti-corrosion level determined by Kesternich test (sulphur dioxide corrosion with general dampness condensation) in compliance with NF EN 3231 (2 l)

Resisted to 15 cycles before the appearance of red rust

Salt spray test in compliance with NF ISO 9227 (March 2007):

No trace of red rust after 500 hours.

• **Advantages**

Easy to drill and install

Time saving during installation

Drilling quality: quick chip release

Very large drilling capacity, max. 18 mm

"Fastest in its class" drilling time

± 18 seconds on 18 mm thickness of S235 steel

Drill bit efficient in renovation on old framework and high hardness steel

### Painting of heads and washers:

Powder painted without TGIC – polyester Epoxy without Gloss

The following tests were carried out on 1 mm zinc plated steel test panels and a nominal coating thickness of 60 µm.

Test	ISO / ASTM requirement
Cross adhesion	ISO 2409 - class 0
Impact resistance	ASTM D 2794 - pass 20 inch/lbs
Flexibility	ISO 1519 - pass 4 mm
Cupping test	ISO 1520 - pass 6 mm
Scratch resistance	N / A
Salt spray resistance	ISO 9227 - pass 1000 hours
Humidity resistance	ISO 6270 - pass 1000 hours
Kesternich resistance	ISO 3231 - pass 25 cycles
Chemical resistance	Resistance to most acids, alkalis and oils at normal temperatures. May be affected by chlorinated solvents.

### Drilling time performance:

Conditions:

- Test material: Structural steel S355 JR
- Tools used: Drilling test with SCS Fein 6.3-19X power 400 W mini with torque limiter and depth control.

Drilling test	Unit	Ø 4,8	Ø 5,5	Ø 6,3 & 6,5
Drilling time	s/mm	< 2	< 2	< 2
Speed rotate	rpm	2000 *	2000 *	2000 *
Axial load	daN	16	20	27

\* Under load: 1800 rotations/min

### Drilling Capacity, diameter, length (in mm) and packaging:

Drilling capacity	Ø x Length	CS Capacity of mini tightening	Assembly capacity CA maxi	Hexagonal head TH	Packaging
4 à 18	6.3 x 116 + VG 30	57	84	8	100
4 à 18	6.3 x 126 + VG 30	67	94	8	100

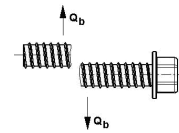
**Characteristic tensile test:**

$\bar{x} = 1614 \text{ daN}$



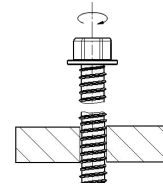
**Characteristic shearing test value – 0.6 x Rm:**

$\bar{x} = 968 \text{ daN}$



**Characteristic torsion strength:**

$\bar{x} = 16 \text{ Nm}$



**Tensile strength test value (Pk in daN) – According to NF P 30-310.**

Thickness of sheet steel (mm)					
Steel sheet support S235					
4 mm	6 mm	8 mm	10 mm	12 mm	15-18 mm
<b>1092</b>	<b>2067**</b>	<b>2067**</b>	<b>2067**</b>	<b>2067**</b>	<b>2067**</b>

These values do not include safety coefficients and are provided for information purposes only

**\*\* Breaking point**

**Conformity:**

CSTB guide n° 3297

**Recommended setting tools:**

Screwing toll FEIN SCS 6.3 -19X power 400 W mini with torque limiter and depth control  
Bit holder and screw bit: 12 mm hexagonal socket

**Marking & labelling:**

CANALVIS SPIRAL 18 TH8 / 2C - Ø 6.3 x L +VG 30 + CODE

**Quality control:**

ISO 9001 : 2015

