

Manufacturer: ETANCO (FRANCE)

Parc les Erables – Bât 1 – 66 route de Sartrouville – BP 49 – 78231 LE PECQ Cedex

Tel. : 01 34 80 52 00 – Fax : 01 30 71 01 89

Product name:

GOLDOVIS SPIRAL18 TH10/ ZBJ ou 2C ou 3C Ø 6,3x 63

Application :

Sheet of steel on steel beam

Description:

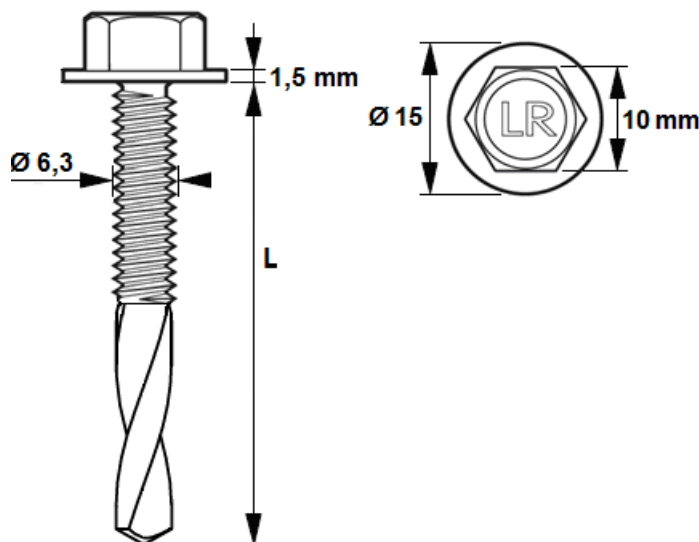
Self-drilling screw Ø 6.3 mm
Hex head of 10 mm Natural finish
with flange Ø15 / 1.5 mm thickness
Pitch 1,27 mm. Drill point

Drilling capacity (CP):

4 to 18 mm into steel sheet

Material:

Cemented steel 20MB5 - SAE 1020 - JIS SWRCH22A.
Surface hardness HV0.5 _ 550 < HV < 750



Material, coating and test of corrosion résistance:

- **ZBJ:** Yellow zinged cemented carbon steel (3 to 5 µm thickness of zinc)
Corrosion résistance level determined by Kesternich test (sulfur dioxide corrosion with general dampness condensation) in compliance with NF EN 3231 (2 l)
Resisted to 2 cycles

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

No trace of red rust after 48 hours.

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

Corrosion résistance level determined by Kesternich test (sulfur 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.

- **3C: SUPRACOAT 3C** coated cemented steel:

Corrosion résistance level determined by Kesternich test (sulfur dioxide corrosion with general dampness condensation) in compliance with NF EN 3231 (2 l)

Resisted to 30 cycles before the appearance of red rust

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

No trace of red rust after 1000 hours.

Advantages

Easy to drill and easy to use
 Saves on fitting time
 High quality drilling: quick clearance of chips
 Very high drilling performance – 18 mm max maxi
 Fastest drilling times for its product category
 Approximately 18 seconds to drill through 18 mm of S235 steel
 High performance drill bit for renovation of old timber frames and high hardness steel

Drilling time Performance:

Conditions: a) Test material : Structural steel S355 JR
 b) 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	Hex head TH	Packaging
4 to 18	6,3 x 63	-	35	10	100

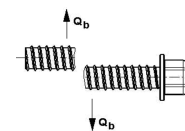
Tensile test (value in daN):

$\bar{x} = 1294 \text{ daN}$



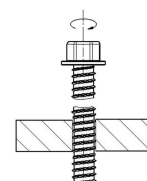
Shear test value – 0.6 x Rm (value in daN):

$\bar{x} = 776 \text{ daN}$



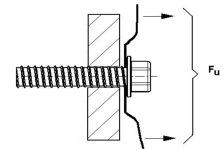
Breaking torque (in Nm):

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



Pull over test values (Pk in daN) of top sheet - In compliance with NF P 30-314

Thickness of sheet steel (mm)		Steel sheet support (S235)					
Superior steel sheet (S320)	0.75 mm	4 mm	6 mm	8 mm	10 mm	12 mm	15-18 mm
		609*	609*	609*	609*	609*	609*

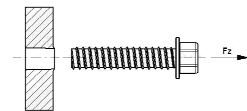


Important: these values do not include safety coefficients

* Buckling

Pull out test values (Pk in daN) – In compliance with NF P 30-310

Thickness of Steel sheet support (S320)					
4 mm	6 mm	8 mm	10 mm	12 mm	15-18 mm
1314	2239**	2239**	2239**	2239**	2239**

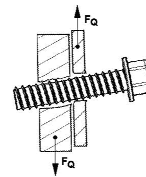


Important: these values do not include safety coefficients

** Breaking point

Shear load test values (Pk in daN) – In compliance with NF P 30-316

Thickness of sheet steel (mm)		daN
Superior steel sheet (S320)	Steel sheet support (S235)	
0.75	4	-
0.75	6	-
0.75	8	-
0.75	10	-
0.75	12	-
0.75	15 - 18	-



Important: these values do not include safety coefficients

Compliance:

DTU 43.3 based on NF P 84-206
French professional regulations related to cladding

Recommended setting tools:

Screwing toll FEIN SCS 6.3 -19X power 400 W mini with torque limiter and depth control
Screw Tip : socket with 10 mm imprint hex head hollow

Marking - Labelling:

GOLDOVIS SPIRAL 18 TH10 / ZBJ – Ø 6,3 x 63 + article number
GOLDOVIS SPIRAL 18 TH10 / 2C – Ø 6,3 x 63 + article number
GOLDOVIS SPIRAL 18 TH10 / 3C – Ø 6,3 x 63 + article number

Quality control:

ISO 9001 : 2008