

Manufacturer: ETANCO (FRANCE)

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Product name

ZACROVIS 15 TH12/ 2C Ø 6 x L

Application:

Sheet of steel on steel beam

Description:

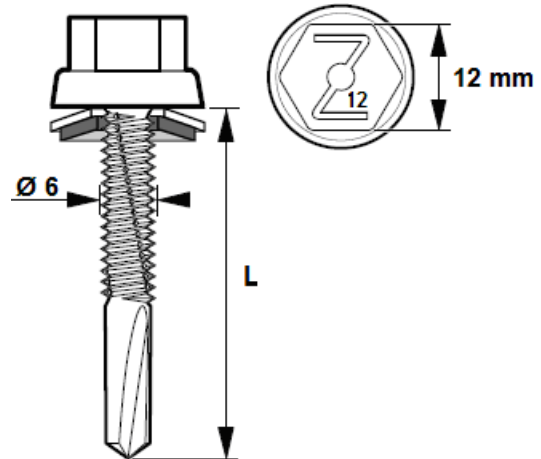
Self-drilling screw Ø 6 mm
ZAMAC Hex head of 12 mm natural finish or EPOXY powder painted and stove hardened.
Pitch 1.2 mm. Drill point
Can be fitted with vulca washer alu Ø14 mm or stainless steel 19 mm

Drilling capacity (CP):

4 to 15 mm into steel sheet

Material:

Screw body:
Cemented steel 20MB5 - SAE 1020 - JIS SWRCH22A.
Surface hardness HV 0.5 _ 550 < HV < 750
Screw head: ZAMAC (Zinc, Alu)
(20 years warranty against corrosion)



Material, coating and test of corrosion resistance:

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

Corrosion resistance level determined by Kesternich test (sulfur dioxide corrosion with general dampness condensation) According to NF EN 3231 (2 l)

Resisted to 15 cycles before the appearance of red rust

Salt spray test According to NF ISO 9227 (March 2007):

Screw body: No trace of red rust after 500 hours.

Screw head: No trace of red rust after 1000 hours.

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 1,000 hours
Humidity resistance	ISO 6270 - pass 1,000 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: 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 15	6 x 35 + VA 14	-	12	12	100
4 to 15	6 x 35 + VI 19	-	11	12	100
4 to 15	6 x 45 + VA 14	-	22	12	100
4 to 15	6 x 45 + VI 19	-	21	12	100
4 to 15	6 x 55	14	34	12	100

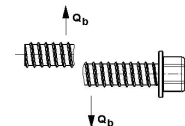
Characteristic tensile test:

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



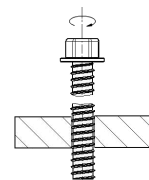
Characteristic shearing test value – 0.6 x Rm:

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



Characteristic torsion strength:

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

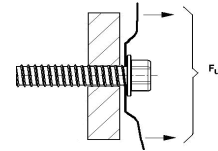


Tensile strength test value (Pk in daN) of top sheet - According to NF P 30-314.

Thickness of sheet steel (mm)						
Superior steel sheet S320	Steel sheet support S235					
0.75 mm	4 mm	6 mm	8 mm	10 mm	12 mm	15 mm
	729 *	729*	729*	729*	729*	729*

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

* **Buckling**

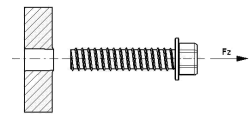


Tensile strength test value (Pk in daN) – According to NF P 30-310.

Thickness of sheet steel (mm)					
Steel sheet support S235					
4 mm	6 mm	8 mm	10 mm	12 mm	15 mm
819	1062	1780**	1780**	1780**	1780**

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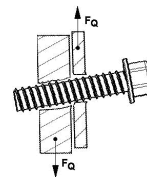
** **Breaking point**



Shearing test value (Pk in daN) – According to 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		-

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



Accordance:

DTU 40.35

Professional regulation related to cladding

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:

ZACROVIS 15 TH12 / 2C – Ø 6 x L + Code

ZACROVIS 15 TH12 / 2C – Ø 6 x L + VA 14 + Code

ZACROVIS 15 TH12 / 2C – Ø 6 x L + VI 19 + Code

Quality control:

ISO 9001: 2015