

Manufacturer: ETANCO (FRANCE)

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Product name

FASTOVIS – COLORVIS 2.5 TH10/ ZN Ø 6,3 x L

Application:

Sheet of steel on steel beam

Description:

Self-drilling screw Ø 6.3 mm
Hexagonal head of 10 mm with natural flange or with EPOXY powder.
Pitch 1.81 mm. Drill point
Can be fitted with a Galva washer VULCA Ø14 mm or 16 mm

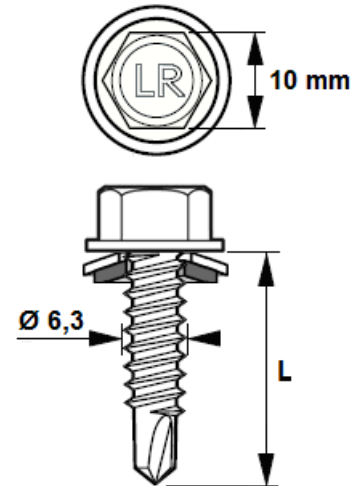
Drilling capacity (CP):

4x0.75 or 2.5mm on steel sheet.

Material:

Screw body:
Cemented steel 20MB5 - SAE 1020 - JIS SWRCH22A.
Surface hardness HV 0.5: 550 < HV < 750

Washer: Stainless steel A2 + vulcanized EPDM 2 mm thickness, 70 Shore A



No contractual marking position

Material, coating and corrosion strength test:

- **ZN:** Cemented steel (3 to 5 µm of zinc)

Corrosion strength level determined by Kesternich test (sulfur dioxide corrosion with general dampness condensation) according to NF EN 3231 (2 l)
Resisted at 1 cycle

Salt spray test according to NF ISO 9227 (March 2007):
No trace of red rust after 48 hours.

Corrosion resistance: Not guaranteed

We do not recommend the use of cemented steel screws in external atmospheres other than the following:
Not polluted rural, urban or industrial normal, marine 10 to 20 km from the sea side.

Painting of heads and washers:

Powder painted without TGIC – Gloss-free polyester Epoxy

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

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
Hot 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. Can 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 rotation	rpm	2000 *	2000 *	2000 *
Axial load	daN	16	20	27

* Under load: 1800 tr / min

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

Drilling capacity	Ø x Length	CA Capacity of mini clamping	Maxi assembly capacity CA	Hexagonal head TH	Packaging
4x0.75 ou 2.5	6.3 x 25	-	10	10	100
4x0.75 ou 2.5	6.3 x 25 + VG14	-	8	10	100
4x0.75 ou 2.5	6.3 x 25 + VG 16	-	8	10	100
4x0.75 ou 2.5	6.3 x 32	-	17	10	100
4x0.75 ou 2.5	6.3 x 32 + VG 14	-	15	10	100
4x0.75 ou 2.5	6.3 x 32 + VG 16	-	15	10	100
4x0.75 ou 2.5	6.3 x 45	-	30	10	100
4x0.75 ou 2.5	6.3 x 45 + VG 14	-	28	10	100
4x0.75 ou 2.5	6.3 x 45 + VG 16	-	28	10	100
4x0.75 ou 2.5	6.3 x 70	-	55	10	100
4x0.75 ou 2.5	6.3 x 70	-	53	10	100
4x0.75 ou 2.5	6.3 x 80	36	65	10	100
4x0.75 ou 2.5	6.3 x 80	34	63	10	100
4x0.75 ou 2.5	6.3 x 100	41	85	10	100
4x0.75 ou 2.5	6.3 x 100	39	83	10	100

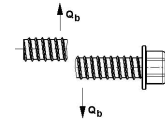
Characteristic tensile strength:

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



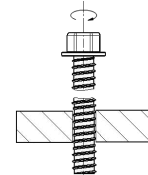
Characteristic shearing strength – 0.6 x Rm:

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



Characteristic Torsion strength:

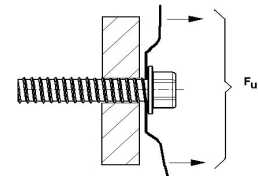
$\bar{x} = 16 \text{ Nm}$



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

Thickness of steel sheet (mm)		Steel sheet support S320				
Superior steel sheet S320	0.75 mm	2x0.75 mm	1 mm	1.5 mm	2 mm	2.5 mm
		169	95	263	428	534*

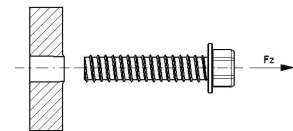
These values do not include safety coefficients and are provided for information purposes only.



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

Thickness of steel sheet support S320						
2 x 0.75 mm	3 x 0.75 mm	4 x 0.75 mm	1 mm	1.5 mm	2 mm	2.5 mm
239	384	500	105	256	371	638

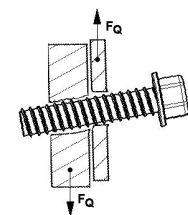
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Shearing test value (Pk in daN) – According to NF P 30-316.

Thickness of steel sheet (mm)		daN
Superior steel sheet S320	Steel sheet support S320	
0.75	2 x 0.75	-
0.75	3 x 0.75	-
0.75	4 x 0.75	-
0.75	1	-
0.75	1.5	-
0.75	2	-
0.75	2.5	-

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



Accordance:

Professional regulations related to cladding

Recommended tools:

Screwdriver FEIN SCS 6.3 -19X power 400 W mini with torque limiter and depth control
Bit holder and screw bit: 10 mm Hexagonalagonal socket

Marking – Labelling:

FASTOVIS 2.5 TH10 / Zn – Ø 6.3 x L + code
FASTOVIS 2.5 TH10 / Zn – Ø 6.3 x L + VG 16 + code
COLORVIS 2.5 TH10 / Zn – Ø 6.3 x L + VG 14 + code

Quality control:

ISO 9001: 20015