

**Manufacturer: ETANCO (FRANCE)**

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**Product name**

## FASTOVIS-COLORVIS12 DF TH8/ ZN Ø 5,5 x L

**Application:**

Sheet of steel on steel beam

**Description:**

Self-drilling screw Ø 5,5 mm  
hexagonal head of 8 mm Natural finish  
or EPOXY powder painted, stove hardened.  
Pitch 1 mm. Drill point  
fitted with washer Vulca Galva Ø 16 mm or Alu 19 mm  
Double thread prevents sagging of sandwich panel

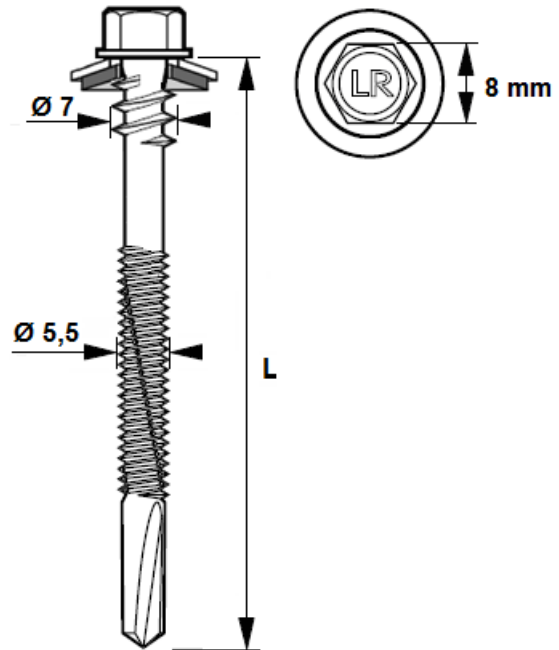
**Drilling capacity (CP):**

4 to 12 mm into steel

**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



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

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

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

Resist to 1 cycle

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

No trace of red rust after 48 hours.

Resistance to corrosion: No warranty

We recommend not using powder painted steel screws in outside environments other than the following:  
non-polluted rural, normal urban and industrial, marine 10 to 20 km from the coast.

**Painting of heads and washers:**

Powder painted without TGIC – without Gloss polyester Epoxy

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
Hot 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. Can be affected by chlorinated solvents.

## Drilling 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 (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 clamping	CA Capacity of maxi assembly	Hexagonal head TH	Packaging
4 to 12	5,5 x 75 + VG 16	31	54	8	100
4 to 12	5,5 x 75+ VA 19	30	53	8	100
4 to 12	5,5 x 90 + VG 16	41	69	8	100
4 to 12	5,5 x 90+ VA 19	40	68	8	100
4 to 12	5,5 x 105 +VG 16	51	84	8	100
4 to 12	5,5 x 105+ VA 19	50	83	8	100
4 to 12	5,5 x 120 + VG 16	66	99	8	100
4 to 12	5,5 x 120 + VA 19	65	98	8	100
4 to 12	5,5 x 145 + VG 16	81	124	8	100
4 to 12	5,5 x 145 + VA 19	80	123	8	100
4 to 12	5,5 x 165 + VG 16	101	144	8	100
4 to 12	5,5 x 165 + VA 19	100	143	8	100
4 to 12	5,5 x 185 +VG 16	111	164	8	100
4 to 12	5,5 x 185 + VA 19	110	163	8	100
4 to 12	5,5 x 235 + VG 16	151	214	8	100
4 to 12	5,5 x 235 + VA 19	150	213	8	100
4 to 12	5,5 x 260 + VG 16	176	239	8	100
4 to 12	5,5 x 260 + VA 19	175	238	8	100
4 to 12	5,5 x 280 + VG 16	196	259	8	100
4 to 12	5,5 x 280 + VA 19	195	258	8	100
4 to 12	5,5 x 335 +VG 16	251	314	8	100
4 to 12	5,5 x 335 + VA 19	250	313	8	100

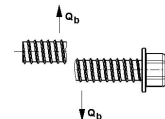
## Characteristic tensile test:

$\bar{x} = 1355 \text{ daN}$



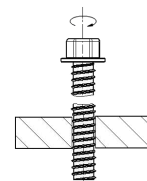
## Characteristic shearing test value – 0.6 x Rm:

$\bar{x} = 813 \text{ daN}$



## Characteristic torsion strength:

$\bar{x} = 10 \text{ Nm}$



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

Thickness of sheet steel (mm) S235				
4 mm	6 mm	8 mm	10 mm	12 mm
<b>1166</b>	<b>1383**</b>	<b>1383</b>	<b>1383</b>	<b>1383</b>

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



**\*\* Breaking point**

### Accordance:

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 8 mm imprint hexagonal head hollow

### Marking - Labelling:

FASTOVIS 12 DF TH8 / Zn – Ø 5,5 x L + VG 16 + Code  
FASTOVIS 12 DF TH8 / Zn – Ø 5,5 x L + VA 19 + Code  
COLORVIS 12 DF TH8 / Zn – Ø 5,5 x L + VG 16 + Code  
COLORVIS 12 DF TH8 / Zn – Ø 5,5 x L + VA 19 + Code

### Quality control:

ISO 9001: 2015