

**Manufacturer: LR ETANCO (FRANCE)**

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**Product name:**

## FASTOVIS COLORVIS 12 TH10 / ZN Ø 6 x L

**Application:**

Steel sheet on steel beam.

**Description:**

Self-drilling screw Ø 6 mm.

Hexagonal head of 10 mm.

Natural finish or EPOXY powder painted, stove hardened.

Pitch = 1.2 mm. Drill point.

Fitted with VULCA Galva washer Ø 16 mm or 19 mm.

**Drilling capacity (CP):**

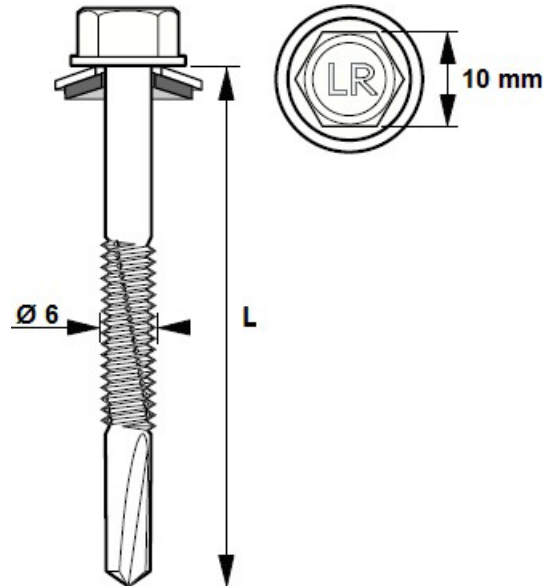
4 to 12 mm into steel.

**Material:**

Screw body: Cemented steel 20MB5 - SAE 1020 - JIS SWRCH22A.

Surface hardness: HV0.5 \_ 550 &lt; HV &lt; 750

Washer: Galva or Aluminium + vulcanized EPDM, 2 mm thickness 70 Shore A.



Not contractual position marking

**Material, coating and test of corrosion resistance:**

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

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

Resisted to 1 cycle before the appearance of red rust.

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 Specification
Cross hatch 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. May be affected by chlorinated solvents.

### Drilling Performance:

- Conditions: a) Test material: Structural steel S355 JR  
 b) Test screwdriver: 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 performance, diameter, length in mm and packaging:

Drilling capacity	Ø x Length	CS Build up min	CS Build up max	Hex head TH	Packaging
4 to 12	6 x 85	23	66	10	100
4 to 12	6 x 85+ VG 16	21	64	10	100
4 to 12	6 x 85+ VA 19	21	64	10	100
4 to 12	6 x 105	43	86	10	100
4 to 12	6 x 105+ VG 16	41	84	10	100
4 to 12	6 x 105+ VA 19	41	84	10	100
4 to 12	6 x 120	58	101	10	100
4 to 12	6 x 120 + VG 16	56	99	10	100
4 to 12	6 x 120 + VA 19	56	99	10	100
4 to 12	6 x 145	83	126	10	100
4 to 12	6 x 145 + VG 16	81	124	10	100
4 to 12	6 x 145 + VA 19	81	124	10	100
4 to 12	6 x 180	118	161	10	100
4 to 12	6 x 180 + VG 16	116	159	10	100
4 to 12	6 x 180 + VA 19	116	159	10	100
4 to 12	6 x 200	138	181	10	100
4 to 12	6 x 200 + VG 16	136	179	10	100
4 to 12	6 x 200 + VA 19	136	179	10	100

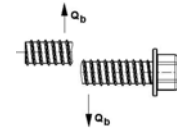
**Tensile test value in daN:**

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



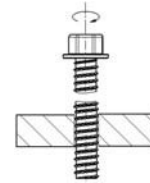
**Shear test value – 0.6 x Rm (value in daN):**

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



**Breaking torque value (in Nm):**

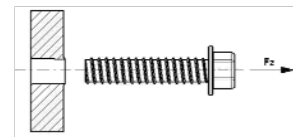
$\bar{x} = 16 \text{ Nm}$



**Pull out test values (Pk in daN) – According to NF P 30-310**

Sheet thickness (mm) Steel S235				
4 mm	6 mm	8 mm	10 mm	12 mm
<b>819</b>	<b>1062</b>	<b>1780**</b>	<b>1780**</b>	<b>1780**</b>

Important: these values do not include safety coefficients



**\*\*Breaking point**

**Recommended setting tools:**

Screwdriver: FEIN SCS 6.3 -19X power 400 W mini with torque limiter (depth control)  
Screw bit: 10 mm hexagonal head

**Marking & labelling:**

FASTOVIS 12 TH10 / Zn – Ø 6 x L + CODE  
FASTOVIS 12 TH10 / Zn – Ø 6 x L + VG 16 + CODE  
FASTOVIS 12 TH10 / Zn – Ø 6 x L + VA 19 + CODE

**Quality control:**

ISO 9001 : 2015