

**Manufacturer: LR ETANCO (FRANCE)**

Parc les Erables – Bât 1 – 66 route de Sartrouville – BP 49 – 78231 LE PECQ Cedex  
Tel.: +33 (0)1 34 80 52 00 – Fax: +33 (0)1 30 71 01 89

**Product name:**

## ZACROVIS 8 TH10 / 2C Ø 5,5 x 27

**Application :**

Fastening sheets to metal purlins

**Description:**

Self-drilling screw Ø 5.5 mm  
ZAMAC hexagonal head of 10 mm with collar, natural finish or EPOXY powder painted, stove hardened  
Pitch = 1 mm. Drill point.  
Can be fitted with VULCA stainless steel washer Ø 19 mm or Alu Ø 14 mm.

**Drilling capacity (CP):**

2 to 8 mm into steel sheet.

**Material:**

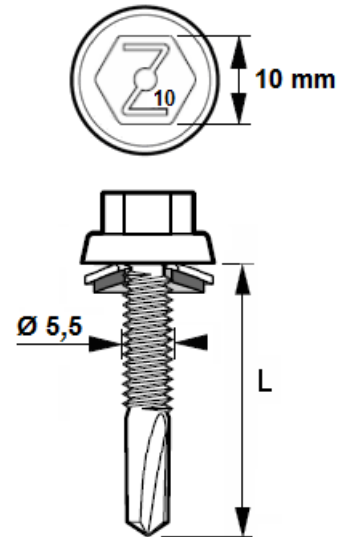
Screw body: Cemented steel 20MB5 - SAE 1020 - JIS SWRCH22A.

Surface hardness HV 0.5 \_ 550 < HV < 750

Screw head: ZAMAC (Zinc, Alu)

(20 years warranty against corrosion)

Washer: Aluminium or stainless steel A2 + vulcanized EPDM 2 mm thickness Shore 70 A



Not contractual position marking

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

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

Anti-corrosion level determined by Kesternich test (sulphur dioxide corrosion with general dampness condensation) according to NF EN 3231 (2L)

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 – 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: 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
2 to 8	5.5 x 27 + VA 14	-	12	10	100
2 to 8	5.5 x 27 + VI 19	-	11	10	100

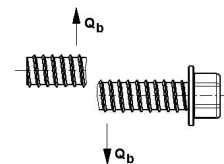
**Tensile test value in daN:**

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



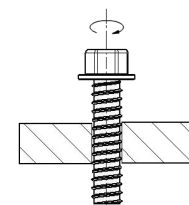
**Shear test value – 0.6 x Rm (value in daN):**

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



**Torsion test value in Nm:**

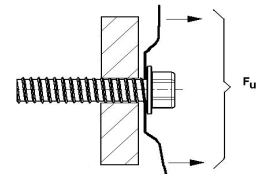
$\bar{x} = 10 \text{ Nm}$



## Pull out test values (Pk in daN) of top sheet - According to NF P 30-314

Top sheet (Steel S320)	Sheet thickness (mm)					
	Steel sheet S320		Steel sheet S235			
0.75 mm	2 mm	2.5 mm	3 mm	4 mm	6 mm	8 mm
	<b>284</b>	<b>440</b>	<b>559</b>	<b>571*</b>	<b>571*</b>	<b>571*</b>

Important: these values do not include safety coefficients and are provided for information purposes only.

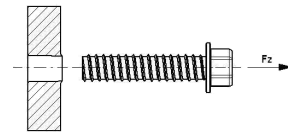


\* **Buckling**

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

Steel thickness (mm)					
Steel S320		Steel S235			
2 mm	2.5 mm	3 mm	4 mm	6 mm	8 mm
<b>295</b>	<b>455</b>	<b>559</b>	<b>1157</b>	<b>1392**</b>	<b>1392**</b>

Important: these values do not include safety coefficients and are provided for information purposes only.

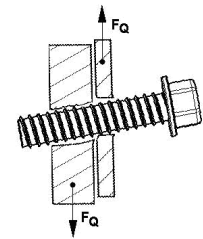


\*\* **Breaking point**

## Shear load test values (Pk in daN) – According to NF P 30-316

Sheet thickness (mm)		
Top sheet (Steel S320)	Steel sheet (Steel S320)	daN
0.75	2	-
0.75	2.5	-
Top sheet (Steel S320)	Steel sheet (Steel S235)	
0.75	3	-
0.75	4	-
0.75	6	-
0.75	8	-

Important: these values do not include safety coefficients and are provided for information purposes only.



### Conformity:

French professional regulations related to cladding (DTU 40.35)

### Recommended setting tools:

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

### Marking - Labelling:

ZACROVIS 8 TH10 / 2C – Ø 5,5 x 27 + CODE  
ZACROVIS 8 TH10 / 2C – Ø 5,5 x 27 +VA 14 + CODE  
ZACROVIS 8 TH10 / 2C – Ø 5,5 x 27 + VI 19 + CODE

### Quality control:

ISO 9001 : 2015