

## TORX PANEL ALU TB12 – TB16 – STAINLESS STEEL A2 – Ø4,8xL – Ø5,5xL



Ø4,8x25 TB12



Ø5,5x25 TB12



Ø5,5x25 TB16



Ø4,8x19 TB12 FP AF



Ø5,5x19 TB16 FP AF

### PRODUCT DEFINITION

- Self-drilling screws Ø4.8 and Ø5.5 mm.
- Available in version with partial thread and clean stop (FP AF)
- Ø12 and Ø16 mm pan head with No. 20 Torx drive.
- Natural, painted head.
- Drill point.
- Some references can be mounted with a Ø10, Ø12 or Ø14 mm stainless steel VULCA washer.

### SCOPE OF APPLICATION

- Ø4.8x25 mm TB12 and Ø5.5x25 mm TB12 & TB16:  
Fixing of pre-drilled façade panels on aluminium frames in accordance with most of French technical specifications for ventilated cladding (CSTB).
- Ø4.8x19 mm TB12 FP AF and Ø5.5x19 mm TB16 FP AF:  
Unflanged fastening of 4 mm thickness pre-drilled façade panels (composite panels) on aluminium frame (without clamping) in accordance with most of French technical specifications (CSTB).

### Drilling Capacity (CP):

- Ø4.8x25 mm TB12 and Ø5.5x25 mm TB12 & TB16:  
2.5 to 3 mm on aluminium.
- Ø4.8x19 mm TB12 FP AF and Ø5.5x19 mm TB16 FP AF:  
1.8 to 3 mm on aluminium.

### MATERIAL & FINISH

#### Material:

- TB12 stainless steel A2:  
Austenitic stainless steel A2 (AISI 304) – 1.4301 according to standard NF EN 10088.
- TB16 stainless steel A4:  
Austenitic stainless steel A2 (AISI 302HQ) – 1.4567 according to standard NF EN 10088.

#### Painting:

- Epoxy, polyester or polyurethane paint (wide range of colours available)
- Thickness of painting according to TDS 4453.
- The painting only gives an aesthetic character. It does not prejudice the nominal mechanical strengths.  
In case of painting degradation, this product preserves its performance and does not derogate from the main function for which it is intended.

#### Corrosion resistance: (A2 and A4 stainless steel)

- Determined by Kesternich test according to NF EN ISO 3231:  
Resist to more than 30 cycles before the appearance of red rust.
- Determined by salt spray test according to NF EN ISO 9227:  
No trace of red rust after 1000 hours.

Registration date: 01/19/2024 – Revision A

LR ETANCO is associate member of:



LR ETANCO - Parc les Érables - Bât. 1 - 66 Route de Sartrouville

78231 Le Pecq Cedex - France - [www.etanco.eu](http://www.etanco.eu)

Tel: +33 (0)1 34 80 52 00 - [commercial.france@etanco.fr](mailto:commercial.france@etanco.fr)

## INSTALLATION

Designation	Ø Head (mm)	Screw material	Examples of related panels
Ø4,8x25 mm	TB12	Stainless steel A2	Durable FS XTRA COLORMAT ORNIMAT VETABRIC
Ø5,5x25 mm	TB12	Stainless steel A2	
Ø5,5x25 mm	TB16	Stainless steel A2	
Ø4.8x19 mm FP AF	TB12	Stainless steel A2	
Ø5.5x19 mm FP AF	TB16	Stainless steel A2	Reynolds International - Albond Siding

### Ø4.8 mm screws:

- For Ø4.8 mm screws, the assembly is made with FEIN SCS 4.8 - 25 screwdriver with 450 W power consumption with torque limiter and depth stop with Torx 20 screwdriver bit.

### Ø5.5 mm screws:

- For Ø5.5 mm screws, the assembly is made with FEIN ASCS 6.3 screwdriver with torque limiter and depth stop with a Torx 20 screwdriving bit.

### Unauthorized Machines:

Nutrunners, impact wrenches and impact screwdrivers are not suitable for façade assembly work and are strictly forbidden to use.

### Recommended installation tools:

#### Ø4.8 mm screws:

- FEIN SCS 4.8-25 corded screwdriver set (code: 321 670)
- Stainless steel bit holder with magnetic clip Lg 60mm (code: 323 105)
- Torx Screwdriver Bit 20 Lg 25mm (code: 325 090)

#### Ø5.5 mm screws:

- 18V FEIN ASCS 6.3 battery-powered screwdriver set (code: 321 652) + Starter set 2 batteries and 1 charger (code: 321 654)
- Stainless steel bit holder with magnetic clip Lg 60mm (code: 323 105)
- Torx Screwdriver Bit 20 Lg 25mm (code: 325 090)

### Related Products:

- FAÇALU T aluminium profile (refer to TDS 4470)
- FAÇALU L aluminium profile (refer to TDS 4471)
- FAÇALU TUBE aluminium profile (refer to TDS 4491)
- OMEGA FAÇALU aluminium profile (refer to TDS 4479)
- Black Flexible Adhesive Tape (refer to TDS 3020)
- Adhesive flexible lipless seal J100 EPDM black (refer to TDS 4455)

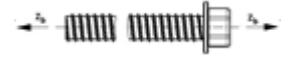
## PERFORMANCE

Characteristic strengths:

▪ Characteristic Tensile Strength:

Ø4,8  $\bar{x}$  = 570 daN

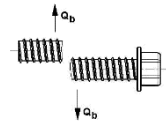
Ø5.5  $\bar{x}$  = 784 daN



▪ Characteristic Shear Strength - 0.6 x Rm:

Ø4,8  $\bar{x}$  = 342 daN

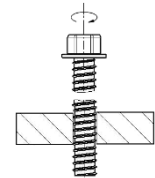
Ø5.5  $\bar{x}$  = 470 daN



▪ Characteristic torsion strength:

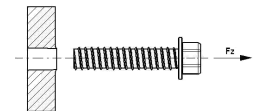
Ø4,8  $\bar{x}$  = 6.5 Nm

Ø5.5  $\bar{x}$  = 7.5 Nm



▪ Pull-out strengths (Pk) in accordance with the NF P 30-310 standard.

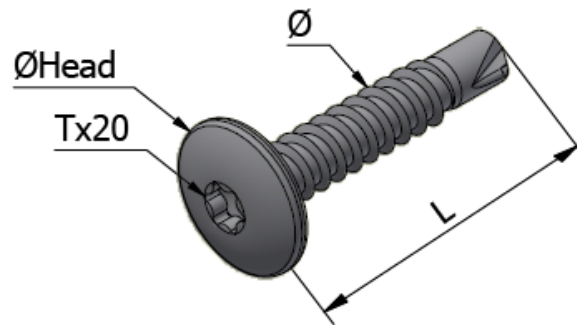
Ø x L (mm)	Thickness (mm) Aluminium 6063 T66	daN
Ø4,8x19 FP AF	1,8	165
	2	244
	2,5	341
	3	386
Ø4,8x25	1,8	165
	2	244
	2,5	341
	3	386
Ø5.5x19 FP AF	1,8	137
	2	221
	2,5	251
	3	368
Ø5,5x25	1,8	137
	2	221
	2,5	251
	3	368



The indicated values don't include the safety factor and are indicative

## DIMENSIONS & CODES

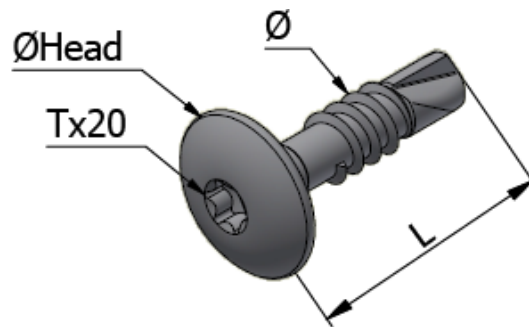
Ø4.8x25 mm TB12 and Ø5.5x25 mm TB12 & TB16:



Ø x L. (mm)	Ø Head (mm)	CS <sub>mini</sub> (mm)	CA <sub>maxi</sub> (mm)	Ø VULCA (mm)	Screw material	Code	
						Natural	Painted
Ø4,8x25	12	-	16	-	Stainless steel A2	33 120	33 121
Ø4,8x25			14	10		-	33 221
Ø4,8x25			14	12		-	33 123
Ø4,8x25			14	14		-	33 154
Ø5,5x25	12	-	16	-	Stainless steel A2	33 180	33 181
Ø5,5x25	16	-	16	-	Stainless steel A2	33 190	33 193

Ø: Nominal diameter - L.: Length - CS<sub>mini</sub>: Minimum clamping capacity - CA<sub>maxi</sub>: Maximum assembly capacity

Ø4.8x19 mm TB12 FP AF and Ø5.5x19 mm TB16 FP AF:



Ø x L. (mm)	Ø Head (mm)	CS <sub>mini</sub> (mm)	CA <sub>maxi</sub> (mm)	Ø VULCA (mm)	Screw material	Code	
						Natural	Painted
Ø4,8x19	12	4	4	-	Stainless steel A2	33 153	33 164
Ø4,8x19		2	2	10		-	33 182
Ø5,5x19	16	4	4	-	Stainless steel A2	33 183	33 200

Ø: Nominal diameter - L.: Length - CS<sub>mini</sub>: Minimum clamping capacity - CA<sub>maxi</sub>: Maximum assembly capacity

## CONFORMITY

- Refer to the implementation rules recommended in the technical specifications (CSTB).

Registration date: 01/19/2024 - Revision A

LR ETANCO is associate member of:



LR ETANCO - Parc les Érables - Bât. 1 - 66 Route de Sartrouville

78231 Le Pecq Cedex - France - [www.etanco.eu](http://www.etanco.eu)

Tel: +33 (0)1 34 80 52 00 - [commercial.france@etanco.fr](mailto:commercial.france@etanco.fr)

## MARKING & LABELLING

### Ø4,8x25 mm TB12:

- On natural packaging: TORX PANEL ALU 3 TB12/Tx20 InA2 4.8x25 + CODE.
- On painting packaging: TORX PANEL ALU 3 InA2L 4.8x25 + Ø VULCA WASHER + COLOUR + CODE.

### Ø5.5x25 mm TB12 and TB16:

- On natural packaging: TORX PANEL ALU 3 + TB12 or TB16 + Tx20 InA2 5.5x25 + CODE.
- On painting packaging: TORX PANEL ALU 3 Tx20 A2 5.5x25 + COLOUR + CODE.

### Ø4.8x19 mm TB12 FP AF and Ø5.5x19 mm TB16 FP AF:

- On natural packaging: TORX PANEL ALU 3 + TB12 or TB16 + InA2 FP AF + 4.8x19 or 5.5x19 + CODE.
- On painting packaging: TORX PANEL ALU 3 InA2 + 4.8x19 or 5.5x19 + Ø VULCA WASHER + COLOUR + CODE.

## QUALITY CONTROL

- ISO 9001 certified quality management system according to certificate in force.

## NOTE

These products are intended for professional installers landlords whose the related service includes supply and installation. In accordance with rules and normative regulation, it's their responsibility to check that the use of these products is in conformity to themselves needs and their customers. They have to insure as well the adequacy of this material with their real operating conditions. The company excludes any guarantee for the use that does not respect these conditions. His responsibility is limited to the strict compliance with the specifications stipulated on the customer's purchase order. The guarantee is limited to the replacement of defective parts acknowledged by the Company's technical service, without workforce costs and travel expenses. It excludes material damage or physical injury and others direct or indirect damages, material or immaterial, which may result from defective parts including installation that not complying with the use for which they are designed and produced.

Registration date: 01/19/2024 – Revision A

LR ETANCO is associate member of:



LR ETANCO - Parc les Érables - Bât. 1 - 66 Route de Sartrouville  
78231 Le Pecq Cedex - France - [www.etanco.eu](http://www.etanco.eu)

Tel: +33 (0)1 34 80 52 00 - [commercial.france@etanco.fr](mailto:commercial.france@etanco.fr)