

TOURBILLON® FA**TOURBILLON® FA Formwork tie bar**

Formwork tie bar in high quality and high load steel
Yield strength = 900N/mm² / Available in standard diameters of 17, 23 and 30mm
Electrogalvanized bars are available / Self-cleaning, intermittent, coarse pitch thread
Easy setting and dismantling / Extensive range of high quality accessories.

TOURBILLON® FA

Designation and Reference

Diameter	Reference	Designation
mm	black/zinc plated	black/zinc plated
17	100002 / 100008	1545 / 1750
23	100009 / 100015	2045 / 2350
30	100017 / 100019	2545 / 2749

Mechanical Properties

Nominal diameter	Failure strength	Yield strength	Elasticity modulus
mm	N/mm ²	N/mm ²	kN/mm ²
17	1,100	900	205
23	1,100	900	205
30	1,100	900	205

Steel characteristics

The Tourbillon® FA formwork tie bar system consists of a high yield bar with deformations specially designed to form a thread along the entire length of the bar, allowing the bar to be cut to the required length on site. Tourbillon® FA complies with the NF P 93-350 standard of June 1995 concerning formworks.

You can recognize Tourbillon® FA by its 2 lines along the bar. This bar is principally used like a formwork tie bar. With its full range of accessories, it is the most widely used formwork tie bar in France.

Charpy value and bending

Tourbillon® FA has a Charpy value of 28 J at -20°C.

The bar can be bent at 180° with a bending diameter of 4d.

Quality assurance

The Tourbillon® FA bar is produced and controlled in accordance with ISO 9001.

Length

Tourbillon® FA bars are available in length up to 12 m. Longer bars can be provided on request. Electrogalvanized bars are available in lengths of up to 6 m. Diameter 27 bars are only available electrogalvanized. Bars can be assembled with couplers.

Thread

The thread form of the Tourbillon® FA bar is an intermittent hot rolled right hand thread with a coarse pitch that is robust, self-cleaning and allows easy assembly on site.

Welding

The Tourbillon® FA bar can be welded using the appropriate techniques.

Accessories

A full range of accessories is available as described in our "Tourbillon® accessories" documentation.

Diameter and load – TOURBILLON® FA

Nominal diameter	Minor diameter	External diameter	Cross section area	Weight	Pitch	Failure load	Yield load	Working load
mm	mm	mm	mm ²	kg/m	mm	kN	kN	kN
17	15	17	173	1.41	10	195	159	95
23	20	23	314	2.51	10	345	282	172
30	26.5	30	551	4.48	13	495	606	290

Ready to use Tourbillon systems



On request, we can provide ready to use sets for time saving on site: cutting, deburring, chamfer, welded nut/lock nut, screwed nut,...

Examples



102698	Tie Bar Ø 20/23 FA EZ + Lock nut SW38, welded
102705	Tie Bar Ø 20/23 FA EZ / Chamfer / Lock nut SW38, welded
101025	Tie Bar Ø 20/23 FA EZ 1.25ml / Chamfer / Lock nut SW30, welded / nut with washer, screwed
101029	Tie Bar Ø 20/23 FA EZ 1.25ml / Chamfer / Lock nut SW36, welded / nut with washer, screwed