



## **TECHNICAL SHEET**

For detailed use of the data on the technical sheet consult the FIXING TECHNOLOGY

# FOR ANY SPECIFIC APPLICATION PROBLEMS CONTACT THE Friulsider TECHNICAL DEPARTMENT

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The technical sheets can be downloaded from the download area of the Friulsider internet site www.friulsider.com

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### **TUPP - HEAVY DUTY NYLON FIXING**









- **UNIQUE**: similar load and safety values to heavy duty metal fixings.
- VERSATILE: through fixing suitable for most base materials used in building.
- **ECONOMIC**: with regards to high performance.
- CONTROLLED EXPANSION: during application the screw remains in the correct position due to the locating groove inside the plug.
- **EFFECTIVE ANTI-ROTATION:** ensured by ribs and multiple wings for a stronger grip on hollow and compact base materials.
- WIDE EXPANSION: with optimum distribution of the load.
- LARGE FIXTURE THICKNESS: due to the range available with lengths up to 240 mm.
- SPECIAL SCREW: with large built-in washered head to distribute the load on the face of the profile being fixed. Made from steel grade 4.8, yellow passivated min thickness 5 microns.

do x L	l fix max	h1	hnom	dr	hmin	d	Lv	Wrench	Code
Ø16X140	45	110	95	34	140	12	150	19	64001b16140
Ø16X160	65	110	95	34	140	12	170	19	64001b16160
Ø16X200	105	110	95	34	140	12	210	19	64001b16200
Ø16X240	145	110	95	34	140	12	250	19	64001b16240

#### **APPLICATIONS**

TUPP is a heavy duty nylon through fixing suitable for fixing:- wood structures (even of great thickness), light metal box profiles, hollow metal tubes and metal structures.

#### PRODUCT FEATURES

Steel screw grade 4.8, nylon plug

#### **RECOMMENDED LOADS**

(important: for detailed anchor selection using this table consult the chapter "Fixing Technology")

Base material type			Plug Ø16	
Concrete C20/25	Tensile load Nrec	kN (3)	1.80	
	Shear load Vrec	kN	2.50	
Solid brick	Tensile load Nrec	kN	1.70	
	Shear load Vrec	kN	2.00	
Double brick UNI (1)	Tensile load Nrec	kN	0.40	
	Shear load Vrec	kN	1.50	
Critical distance from edge Ccr (2)	mm	140		
Critical distance between anchors Scr	(2)	mm	140	
Bending moment Mrec		Nm	10.3	

- Base materials with plaster thickness around 5-10 mm. (1) Base materials with plaster thickness around 5-10 m (2) In case of broken bricks, double the indicated data.
- (1) kN ~100 Kgf.
- concrete
- hollow core concrete
- solid brick
- honeycomb brick
- cell like clay brick
- perforated brick
- light weight honeycomb brick
- dense aggregate block
- light aggregate block
- hollow dense aggregate block
- hollow light aggregate block
- aerated concrete
- plasterboard
- panels & sheets
- solid stone
  - O wood













