TECHNICAL DATA SHEET: BMAX









- Two kind of head: countersunk and wafer head.
- Kerb point for fast installation.
- Completely milling thread. Reduce driving torque and splitting on base material.
- Fast thread. Reduce the threading torque and increase the battery lifetime.
- Ribs under the head for a perfect flush with the surface.
- TORX recess, mor efficient torque transfer.
- Lubricated screws to reduce the friction and get easy installation.
- Material: Carbon steel.



HOMOLOGATIONS

Values according to ETA-16/0770



BASE MATERIALS

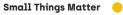
For softwood timbers like solid timber, glued laminated timber and wood panels like plywood, OSB, particleboard, fibreboards, cement-bonded particle boards, solid-wood panels.

FEATURES

Reference	ø Screw	Screw length	Threaded part	Recess	ø Head
BMP Countersunk head	6	60-80-100-120	52	TORX 30	12,0
		140-160-180-200-220- 240-260-280-300	75		
	8	80-100-120	52	TORX 40	15,0
		140-160-180-200	80		
		220-240-260-280-300- 320-340-360-380-400	100		15,0
	10	80-100-120	52	TORX 50	18,5
		140-160-180-200	80		
		220-240-260-280-300- 320-340-360-380-400	100		

Reference	ø Screw	Screw length	Threaded part	Recess	ø Head
BMPL Wafer head	8	80-100-120	52	TORX 40	
		140-160-180-200	80		22,0
		220-240-260-280-300- 320-340-360-380-400	100	1011/40	
	10	80-100-120	52	TORX 50	
		140-160-180-200	80		25,0
		220-240-260-280-300- 320-340-360-380-400	100		23,0





TECHNICAL DATA SHEET: BMAX



CHARACTERISTIC VALUES OF THE LOAD-CARRYING CAPACITIES

Outer thread diameter (mm)	6.0	8.0	10.0
Characteristic yield moment (Nm)	10.0	20.0	30.0
Characteristic tensile strength (kN)	12.0	21.0	27.0
Characteristic torsional strength (Nm)	10.0	24.0	39.0

AXIAL WITHDRAWAL CAPACITY

The chracteristic withdrawl parameter at an angle α = 90° to the grain based on a characteristic density of the wood-based member of 350 kg/m³:

 $f_{ax,k}$ = 11 N/mm² for screws with diameter 6mm and 8 mm. $f_{ax,k}$ = 10 N/mm² for screws with diameter 10 mm.

HEAD PULL-THROUGH CAPACITY

The characteristic value of the head pull-through parameter for a characteristic density of 350 kg/m3 of the timber and for wood-base panels with a thickness of mor than 20 mm is:

 $f_{head,k} = 9.4 \text{ N/mm}^2$ For thickness of 12 mm ≤ t ≤ 20 mm: $f_{head,k} = 8 \text{ N/mm}^2$

MINIMUM THICKNESS OF WOOD BASED PANELS

Wood based panel	Minium thickness (mm)
Plywood	6
Fibreboards (hardboards and medium boards)	6
Oriented StandBboards (OSB)	8
Particleboards	8
Cement-bonded particle board	8
Solid wood panels	12

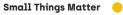
FASTENING OF THERMAL INSULATION MATERIAL ON TOP OF RAFTERS:

The thickness of the insulation material may be up to 300 mm.

MINIMUM BATTENS DIMENSIONS

Outer thread diameter (mm)	Minimum thickness (mm)	Minimum width (mm)
6 - 8	30	50
10	40	60





^{*}For another kind of densities see ETA-16/0770.

^{*}Check en ETA-16/0770 for homologated woods or another densities.

TECHNICAL DATA SHEET: BMAX



MAXIMUM SPACING BETWEEN SCREWS: 1,75 m

For inclined rafters check ETA-16/0770

APPLICATIONS

Wood structures (houses, pergolas, porchs, ...), roofs and fittings, compression reinforcement for timbers and termal insulation material on top of rafters.







