



## Properties

**Material**  
Steel, Zinc Plated

## Applications

- Suitable for Concrete C20/25 and Solid stone
- for heavy fixings in hard, solid material, like concrete

## Description

- with pre-assembled washer and hexagon nut
- quick, graded anchoring due to shape of disperse cone

## Technical Data

Item	Size G	Anchor Length L (mm)	Hole Diameter D (mm)	Hole Depth H (mm)	Fixture Thickness T (mm)
SPTB M8	M8	80	8	42	35
SPTB M8	M8	100	8	45	35
SPTB M8	M8	120	8	63	35
SPTB M10	M10	80	10	50	42
SPTB M10	M10	100	10	50	54
SPTB M10	M10	120	10	50	58
SPTB M10	M10	150	10	55	54
SPTB M10	M10	200	10	60	58
SPTB M12	M12	100	12	60	35
SPTB M12	M12	120	12	60	35
SPTB M12	M12	150	12	60	35
SPTB M16	M16	100	16	65	42
SPTB M16	M16	120	16	65	54
SPTB M16	M16	150	16	65	58

**Note :**  
Other finishes are available upon request.

## Technical Data

Anchor size		M8	M10	M12	M16
Maximum tension loads in concrete	kN	2.1	3.1	4	7
Minimum spacing	mm	85	110	150	170
Minimum Edge distance	mm	70	90	110	140
Minimum base material thickness	mm	180	200	220	260
Recommended tightening torque	Nm	20	30	50	120
Wrench size	mm	13	17	19	24

## Performance Data (20/25 Concrete)

Thread Diameter (mm)	Characteristic Resistance (kN)		Design Resistance (kN)		Recommended Resistance (kN)		Spacing (mm)		Edge Distance (mm)	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile	Shear
8	7.4	9.2	3.9	4.6	2.1	3	85	85	45	70
10	11.2	14.5	5.8	7	3.1	4.4	110	110	55	90
12	17.9	21.2	9.2	11.3	4	6.2	150	150	75	110
16	23.8	33.4	12.9	19	7	11.2	170	170	95	140