



Support

Pullout Values (Newtons) - Buildex Fasteners into Steel



Screw Gauge/TPI	Steel Thickness								
	0.55mm Batten	0.75mm Batten	1.2mm Stud	1.5mm Purlin	1.9mm Purlin	2.4mm Purlin	6.0mm Hot Roll Steel	8.0mm Hot Roll Steel	12mm Hot Roll Steel
10g - 16 TPI Teks®	-	1,860	2,320	4,200	5,500	7,820	-	-	-
10g - 24TPI Teks®	-	-	2,320	4,280	5,820	7,680	-	-	-
M6 RoofZips®	1,520	2,480	3,280	5,240	5,940	-	-	-	-
12g - 24 TPI Teks® <i>Hex + Wafer Series 500</i>	-	-	-	-	-	6,260	16,700*	16,700*	16,700*
12g - 14 TPI Teks® <i>Screw length longer than 20mm</i>	-	-	1,980	3,040	5,160	6,960	-	-	-
12g - 14 TPI Teks® <i>Screw length 20mm or shorter</i>	-	-	2,200	4,080	5,420	7,360	-	-	-
12g - 24 TPI Teks®	-	-	-	-	-	7,780	-	-	-
14g - 10 TPI Teks®	-	-	2,600	4,680	6,500	8,100	-	-	-
14g - 20 TPI Teks®	-	-	2,400	4,200	5,500	7,700	19,860	-	-

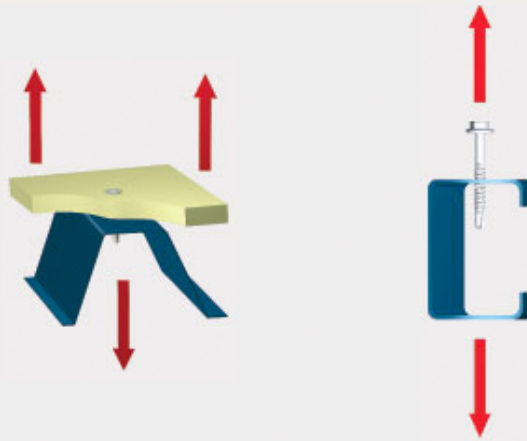
* Axial tensile value of screw

Note: Appropriate safety factors should be applied for design purposes.

All values are averages obtained under laboratory conditions.

These figures apply to Buildex® (BX Head marked) products only.

Pullout Loads (Kilo Newtons kN)
The load required to pull the fastener out of the material it is screwed into.



Pullout Values (Newtons) - Buildex Fasteners into Timber, Lightweight Battens & Steel



Screw Gauge/TPI

Thickness

	0.55mm Batten	0.75mm Batten	1.2mm Stud	1.5mm Purlin	1.9mm Purlin	F7 Pine Timber	F17 Hard Wood	Ultra Hard Timber
10g - 12 TPI (T17s)	1,320	2,220	-	-	-	5,700	6,000	-
12g - 11 TPI (T17s)	1,510	2,400	-	-	-	3,900	6,460	-
14g - 10 TPI (T17s)	1,740	2,860	-	-	-	3,820	6,980	-
12 - 11 Batten Zips®	1,540	2,420	2,680	-	-	5,710	6,460	6,960
M6 RoofZips®	1,520	2,480	3,280	5,240	5,940	4,300	6,570	-

* Pullout values at 36mm embedment into timber

Note: Appropriate safety factors should be applied for design purposes.

All values are averages obtained under laboratory conditions.

These figures apply to Buildex® (BX Head marked) products only.

Mechanical Properties

Screw Gauge/TPI	Single Shear Strength (N)	Axial Tensile Strength (N)	Torsional Strength (Nm)
M6 RoofZips®	8,500	15,400	14.0
10g - 16 TPI	6,800	11,900	8.4
10g - 24 TPI	6,200	11,400	8.6
12g - 11 TPI	8,400	13,900	13.5
12g - 14 TPI	8,800	15,300	13.2
12g - 24 TPI	9,000	16,700	13.5
14g - 10 TPI	10,900	19,700	18.5
14g - 20 TPI	11,200	21,200	20,400

Note: Appropriate safety factors should be applied for design purposes.

All values are averages obtained under laboratory conditions.

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