

PMJ-tec Stainless Steel Fastener Data

PMJ-tec Roofing and Cladding Stainless Steel Fastener Data



PMJ-tec is a Swiss roofing and facade fastener manufacturer specialising in A2, A4 and other high grade corrosion resistant stainless steel products, which can be supplied with a colour powder coated or nyco moulded head.

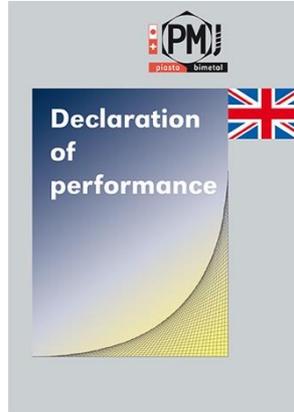
People are at the heart of our 'service and innovation' culture, along with a commitment to provide the ever-changing European and world markets with high quality product for both on and off site production, fully supported by experienced and honest technical expertise.

As a European manufacturer, we offer technical and application assistance worldwide.

The PMJ range of stainless steel fasteners is fully warranted and CE marked (supported by European Technical Assessments) and a suite of CAD and BIM models are available.

ETA Certification

ETA certification and DOPs are available for premium products covered by extended guarantees.



Declaration of Performance

No. ALL/0182/06.01

1 Unique identification code of the product-type: 7571

2 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4): see the label on the packaging

3 Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer: Fastening screws for sandwich panels

4 Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): PMJ-tec AG, CH – 1791 Courtaman

5 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): -----

6 System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: System 2+

7 In case of the declaration of performance concerning a construction product covered by a harmonized standard: not applicable

8 In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: Deutsches Institut für Bautechnik (DIBt) issued ETA-13/0182 on the basis of CUAP 06.02/12. The notified body 0769-CPD performed third party tasks under system 2+ and issued the certificate of conformity of the production control.

9 Declared performance:

Essential characteristics	Performance	Harmonized Technical Specification
Tensile strength	Annex 9 & 10	ETA-13/182
Shear strength	Annex 9 & 10	ETA-13/182
Types of fastening	Annex 9 & 10	ETA-13/182
Limitations	Annex 9 & 10	ETA-13/182
Reaction to fire	A1	ETA-13/182

10 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer in point 4.

R. Bugnon / Head of technical services and quality department

Signature: _____

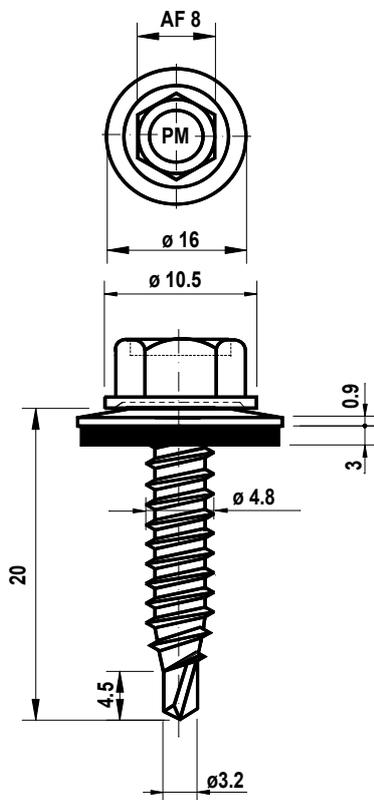
Courtaman, 24.10.2014

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7530	Stainless Hex-head Heavy Section	SH HS	11
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Technical Performance Data Sheet

Stainless Hex-head Stitcher \varnothing 4.8 mm (SH ST 4.8)



PMJ-7553

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 1 point (drill capacity max. 2x1.0 mm)

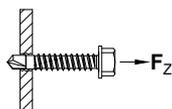
Diameter: 4.8 mm

Features: Free spin to eliminate over-driving

REMARKS:

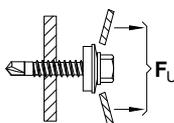
Steel thickness \leq 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	0.63	0.75	1.0	1.25	2x1.25
Steel S 280 GD (Dx51D)	740	1 000	1 520	2 160	5 270

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3 595	5 090	5 430	6 440	7 530	8 620
Washer dia. 19 mm Stainless steel	3 955	5 600	6 640	7 720	9 020	11 100

* Steel S 280 GD, 395 N/mm²

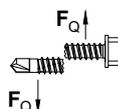
Tensile breaking load Z_b

6.90 kN



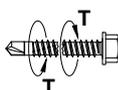
Shear breaking load F_Q

4.60 kN



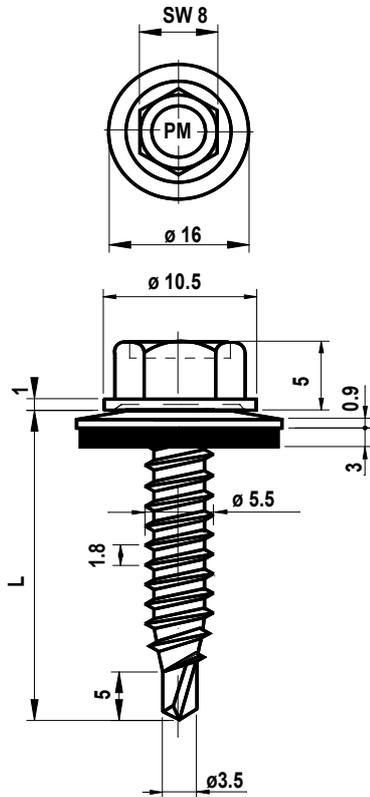
Torsional strength

6.8 Nm



Technical Performance Data Sheet

Stainless Hex-head Stitcher Ø 5.5 mm (SH ST 5.5)



PMJ-7553

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 1 point
(drill capacity 2x0.4 to 2x1.0 mm)

Diameter: 5.5 mm

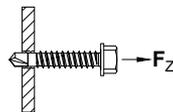
Features: Free spin to eliminate over-driving

Available in Stainless-steel A4 (AISI 316): A4 SH ST (PMJ-7553A4)

REMARKS:

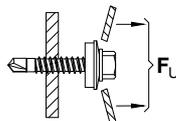
Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	0.63	0.75	1.0	1.25	2x0.75	2x1.25
Steel S 280 GD (Dx51D)	990	1300	2170	2500	2300	5738

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. 19 mm Stainless steel	3955	5600	6640	7720	9020	11100

* Steel S 280 GD, 395 N/mm²

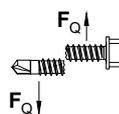
Tensile breaking load Z_b

8.50 kN



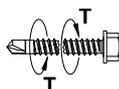
Shear breaking load F_Q

5.65 kN



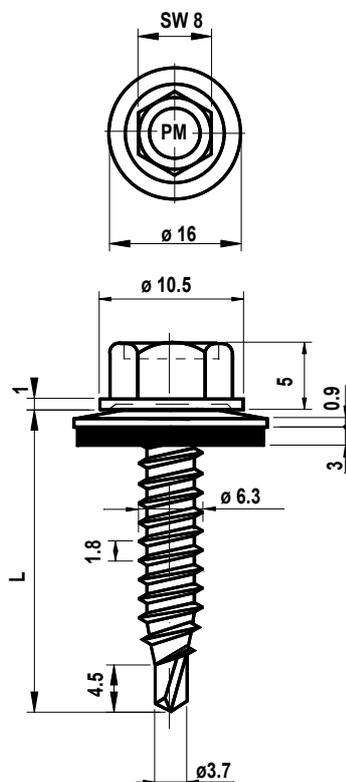
Torsional strength

9.4 Nm



Technical Performance Data Sheet

Stainless Hex-head Stitcher \varnothing 6.3 mm (SH ST 6.3)



PMJ-7550

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

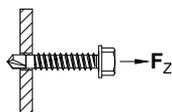
Drill Point: Hardened carbon-steel no. 1 point
(drill capacity 2x0.4 to 2x1.0 mm)

Diameter: 6.3 mm

REMARKS:

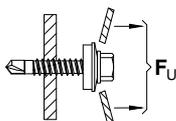
Steel thickness \leq 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	0.63	0.75	1.0	1.25	2x0.75
Steel S 280 GD (Dx51D)	1404	1711	2540	3400	7229

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	4050	4240	5120	6000	7200
Washer dia. 19 mm Stainless steel	3950	5600	5500	7650	8070	11000

* Steel S 280 GD, 395 N/mm²

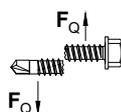
Tensile breaking load Z_B

13.50 kN



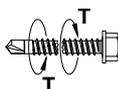
Shear breaking load F_Q

9.00 kN



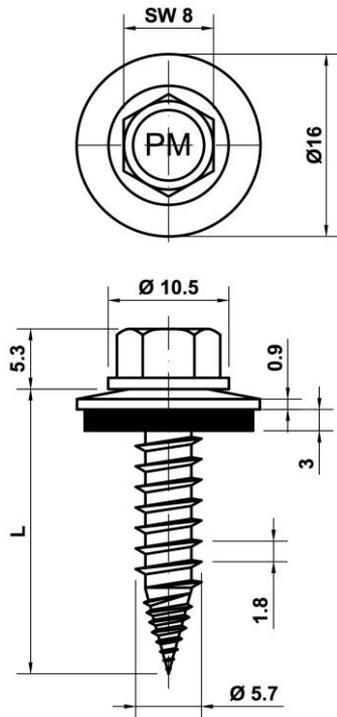
Torsional strength

12.7 Nm



Technical Performance Data Sheet

Stainless Hex-head Ultra Light Sharp Point (SH UL SP)



PMJ-7563

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel Sharp Point with twin lead
(drill capacity 2x0.4 to 2x1.0 mm)

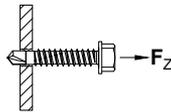
Diameter: 5.5 mm

Features: Swarf free installation

REMARKS:

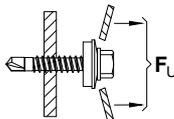
Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	0.51	0.63	0.75	1.0	1.25	2x0.62	2x0.75	2x1.0
Steel S 280 GD (Dx51D)	1 132	1 446	1 948	2 561	4 409	2 725	4 065	5 910

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3 595	5 090	5 430	6 440	7 530	8 620
Washer dia. 19 mm Stainless steel	3 955	5 600	6 640	7 720	9 020	11 100

* Steel S 280 GD, 395 N/mm²

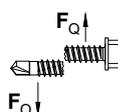
Tensile breaking load Z_B

10.81 kN



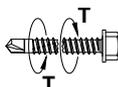
Shear breaking load F_Q

8.39 kN



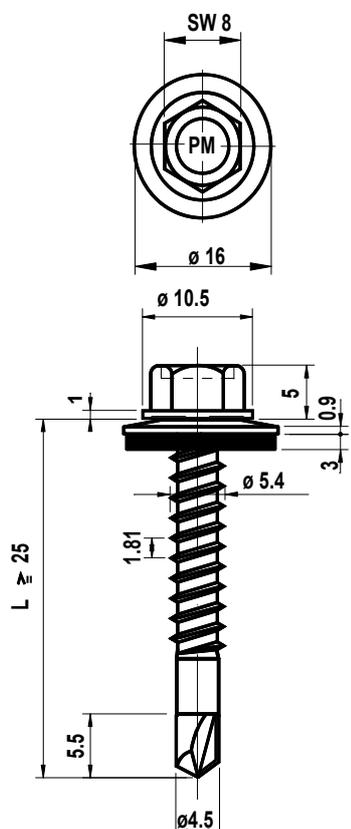
Torsional strength

10.6 Nm



Technical Performance Data Sheet

Stainless Hex-head Light Section (SH LS)



PMJ-7510

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

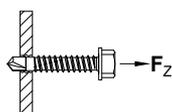
Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 2 point (drill capacity 1.2 to 4.0 mm)

Diameter: 5.5 mm

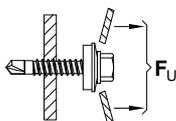
Available in Stainless-steel A4 (AISI 316): A4 SH LS (PMJ-7510A4)

Pull-out load F_z (N)



Steel thickness (mm)	1.2	1.5	2.0	2.5	3.0	4.0
Steel S 355, 470 N/mm ²	2612	3764	4973	7187	9498	11380

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. 19 mm Stainless steel	3955	5600	6640	7720	9020	11100

* Steel S 280 GD, 395 N/mm²

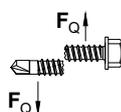
Tensile breaking load Z_b

11.35 kN



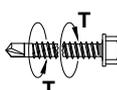
Shear breaking load F_Q

7.55 kN



Torsional strength

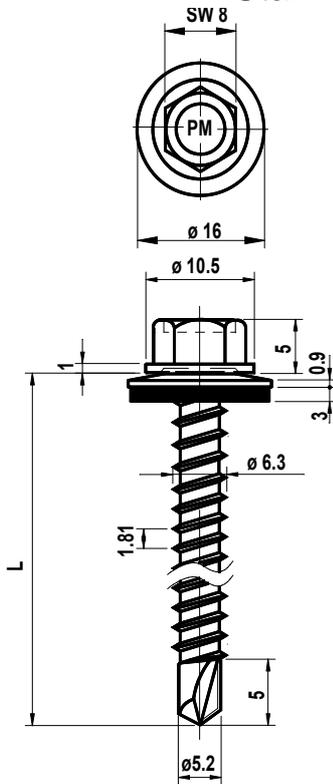
9.2 Nm



All values are ultimate failure loads and do not contain safety factors

Technical Performance Data Sheet

Stainless Hex-head Light Section Halter (SH LS H)



PMJ-7517

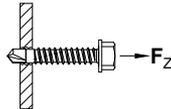
Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 2 point (drill capacity 1.2 to 3.5 mm)

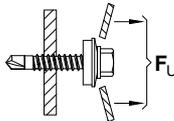
Diameter: 6.3 mm

Pull-out load F_z (N)



Steel thickness (mm)	1.2	1.5	2.0	2.5	3.0
Steel S 355, 470 N/mm ²	2961	4029	5687	7960	10348

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	4050	4240	5120	6000	7200
Washer dia. 19 mm Stainless steel	3950	5600	5500	7650	8070	11000

* Steel S 280 GD, 395 N/mm²

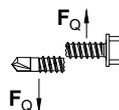
Tensile breaking load Z_b

14.55 kN



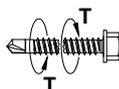
Shear breaking load F_Q

9.71 kN



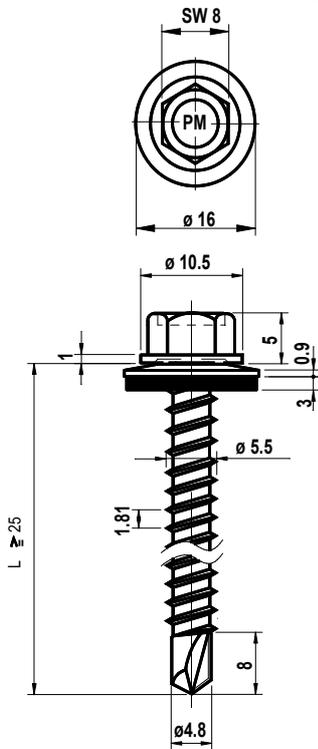
Torsional strength

13.0 Nm



Technical Performance Data Sheet

Stainless Hex-head Mid Section (SH MS)



PMJ-7520

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 3 point (drill capacity 1.5 to 6.0 mm)

Diameter: 5.5 mm

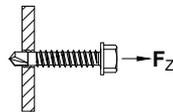
Available in Stainless-steel A4 (AISI 316): A4 SH MS (PMJ-7520A4)

REMARKS:

Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

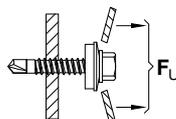
Steel thickness ≥ 3 mm S 235 (Ac 37-2) 340 to 470 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	2.0	2.5	3.0	4.0
Steel S 280 GD (Dx51D)	2730	3790	4760	
Steel S 235 (Ac 37-2)				7520

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. 19 mm Stainless steel	3955	5600	6640	7720	9020	11100

* Steel S 280 GD, 395 N/mm²

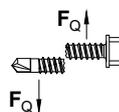
Tensile breaking load Z_b

11.35 kN



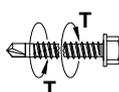
Shear breaking load F_Q

7.55 kN



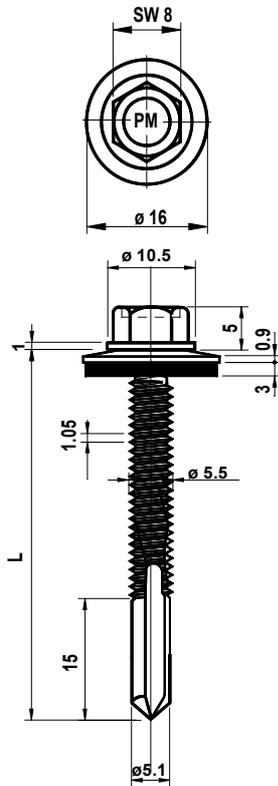
Torsional strength

9.2 Nm



Technical Performance Data Sheet

Stainless Hex-head Heavy Section (SH HS)



PMJ-7530

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 5 point (drill capacity 4.0 to 12.5 mm)

Diameter: 5.5 mm

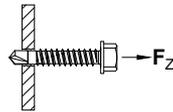
Available in Stainless-steel A4 (AISI 316): A4 SH HS (PMJ-7534)

REMARKS:

Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Steel thickness ≥ 3 mm S 235 (Ac 37-2) 340 to 470 N/mm²

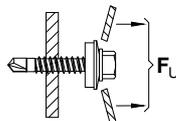
Pull-out load F_z (N)



Steel thickness (mm)	4.0	5.0	6.0
Steel S 235 (Ac 37-2)	10700	11600	12600 *

* rupture of fastener

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. 19 mm Stainless steel	3955	5600	6640	7720	9020	11100

* Steel S 280 GD, 395 N/mm²

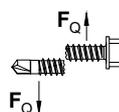
Tensile breaking load Z_b

11.35 kN



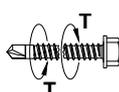
Shear breaking load F_Q

7.55 kN



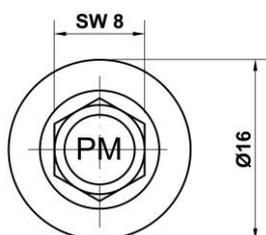
Torsional strength

9.2 Nm



Technical Performance Data Sheet

Stainless Hex-head Timber Ø 4.8 mm (SH TI 4.8)



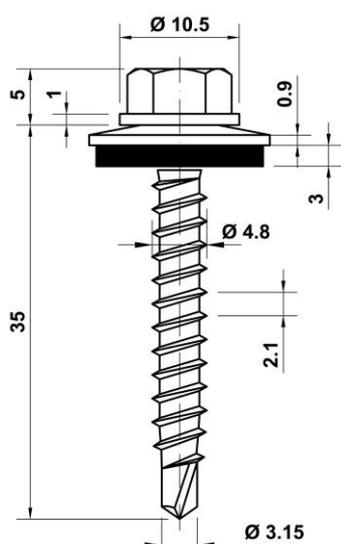
PMJ-7561

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 1 point for fastening profiled sheets to timber (drill capacity in steel max. 2x1.0 mm)

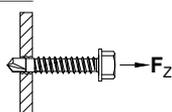
Diameter: 4.8 mm



REMARKS:

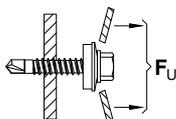
Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Timber thickness (mm)	10	15	20	25	30
	870	1663	2044	2587	3144

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. 19 mm Stainless steel	3955	5600	6640	7720	9020	11100

* Steel S 280 GD, 395 N/mm²

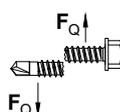
Tensile breaking load Z_b

9.00 kN



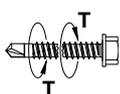
Shear breaking load F_Q

7.40 kN



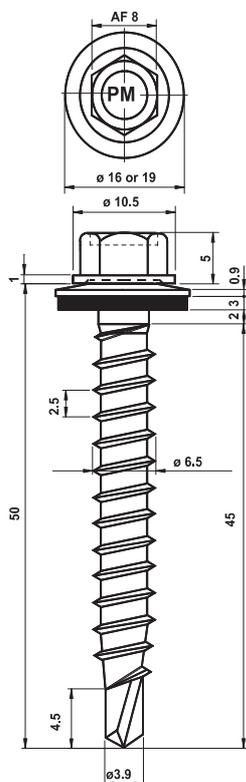
Torsional strength

7.0 Nm



Technical Performance Data Sheet

Stainless Hex-head Timber Ø 6.5 mm (SH TI 6.5)



PMJ-7565

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

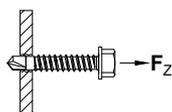
Drill Point: Hardened carbon-steel no. 1 point for fastening profiled sheets to timber (drill capacity in steel max. 2x1.0 mm)

Diameter: 4.8 mm

REMARKS:

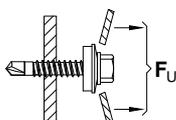
Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Timber thickness (mm)	20	30	40
	3350	6715	7398

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	4050	4240	5120	6000	7200
Washer dia. 19 mm Stainless steel	3950	5600	5500	7650	8070	11000

* Steel S 280 GD, 395 N/mm²

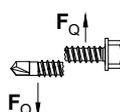
Tensile breaking load Z_b

15.00 kN



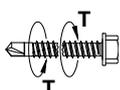
Shear breaking load F_Q

14.60 kN



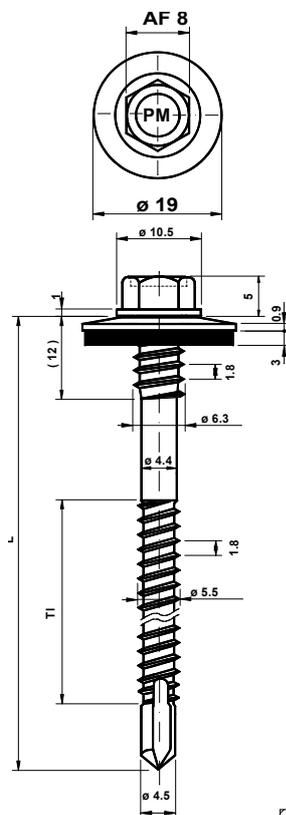
Torsional strength

10.5 Nm



Technical Performance Data Sheet

Stainless Hex-head Light Section High Thread (SH LS HT)



PMJ-7571

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

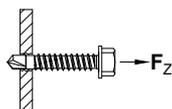
Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 2 point (drill capacity 1.2 to 4.0 mm)

Diameter: 5.5 / 6.3 mm High Thread

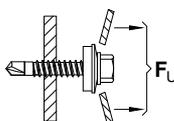
Available in Stainless-steel A4 (AISI 316): A4 SH LS HT (PMJ-7571A4)

Pull-out load F_z (N)



Steel thickness (mm)	1.2	1.5	2.0	2.5	3.0	4.0
Steel S 355, 470 N/mm ²	2612	3764	4973	7187	9498	11380

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. 19 mm Stainless steel	3955	5600	6640	7720	9020	11100

* Steel S 280 GD, 395 N/mm²

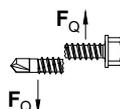
Tensile breaking load Z_b

13.25 kN



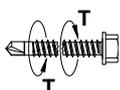
Shear breaking load F_Q

8.80 kN



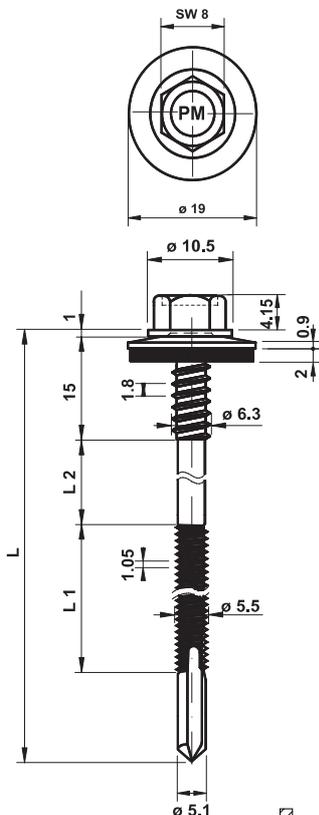
Torsional strength

9.6 Nm



Technical Performance Data Sheet

Stainless Hex-head Heavy Section High Thread (SH HS HT)



PMJ-7575

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 5 point (drill capacity 4.0 to 12.5 mm)

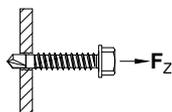
Diameter: 5.5 / 6.3 mm High Thread

REMARKS:

Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Steel thickness ≥ 3 mm S 235 (Ac 37-2) 340 to 470 N/mm²

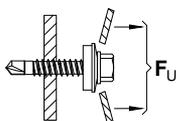
Pull-out load F_z (N)



Steel thickness (mm)	4.0	5.0	6.0
Steel S 235 (Ac 37-2)	10 700	11 600	12 600

* rupture of fastener

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3 595	5 090	5 430	6 440	7 530	8 620
Washer dia. 19 mm Stainless steel	3 955	5 600	6 640	7 720	9 020	11 100

* Steel S 280 GD, 395 N/mm²

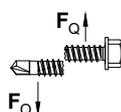
Tensile breaking load Z_b

13.25 kN



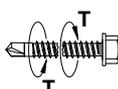
Shear breaking load F_Q

8.80 kN



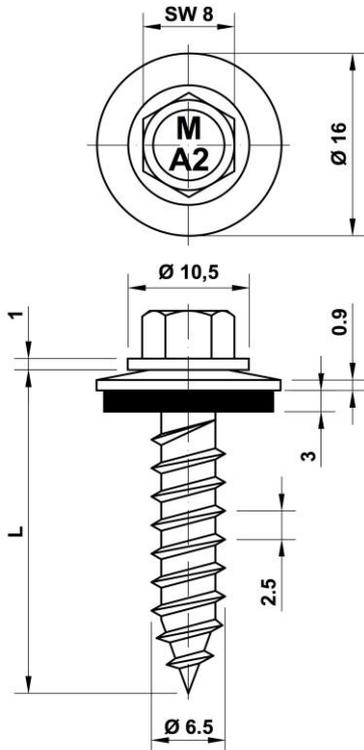
Torsional strength

9.6 Nm



Technical Performance Data Sheet

Stainless Hex-head Tap Light (SH TL)



PMJ-7653

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Point: Fully Stainless, Type A (pre-drilled cold-rolled steel up to 3mm)

Diameter: 6.5 mm

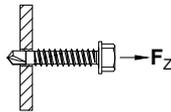
Available in Stainless-steel A4 (AISI 316): A4 SH TH (PMJ-7652)

Available in Stainless-steel A5 (AISI 316 Ti): A5 SH TH (PMJ-7653A5)

REMARKS:

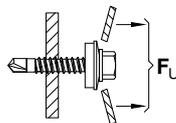
Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	0.63	0.75	1.0	1.25	1.5	2.0	3.0
Pre-drill bit diameter	4.0	4.0	4.5	4.5	5.0	5.0	5.7
Steel S 280 GD (Dx51D)	1072	1445	1933	2737	3214	4647	6543

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	4960	6050	7500	9424	10990
Washer dia. 19 mm Stainless steel	3950	5470	6595	8340	10800	12120

* Steel S 280 GD, 395 N/mm²

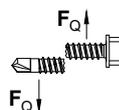
Tensile breaking load Z_b

15.60 kN



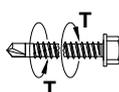
Shear breaking load F_Q

13.08 kN



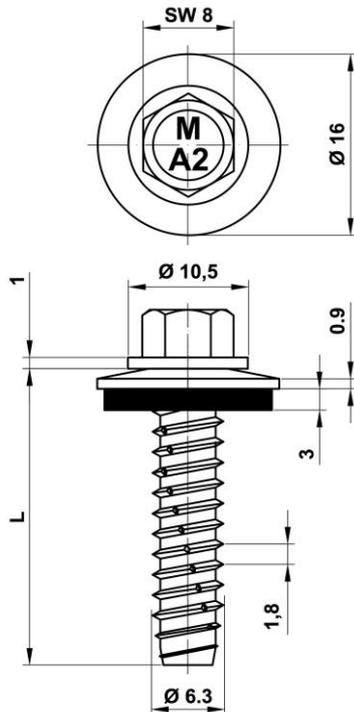
Torsional strength

20.1 Nm



Technical Performance Data Sheet

Stainless Hex-head Tap Heavy (SH TH)



PMJ-7673

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Point: Fully Stainless, Type B (pre-drilled hot-rolled steel over 3mm)

Diameter: 6.3 mm

Available in Stainless-steel A4 (AISI 316): A4 SH TH (PMJ-7672)

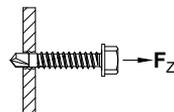
Available in Stainless-steel A5 (AISI 316 Ti): A5 SH TH (PMJ-7673A5)

REMARKS:

Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

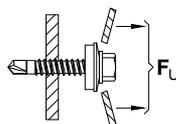
Steel thickness ≥ 3 mm S 235 (Ac 37-2) 340 to 470 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	1.5	2.0	3.0	4.0	5.0	6.0	8.0
Pre-drill bit diameter	5.0	5.3	5.3	5.3	5.5	5.5	5.7
Steel S 280 GD (Dx51D)	3020	3970	7450				
Steel S 235 (Ac 37-2)				12890	13940	15130	16550

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 16 mm Stainless steel	3595	4960	6050	7500	9424	10919
Washer dia. 19 mm Stainless steel	3950	5470	6595	8390	10800	12120

* Steel S 280 GD, 395 N/mm²

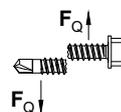
Tensile breaking load Z_B

18.71 kN



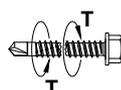
Shear breaking load F_Q

12.62 kN



Torsional strength

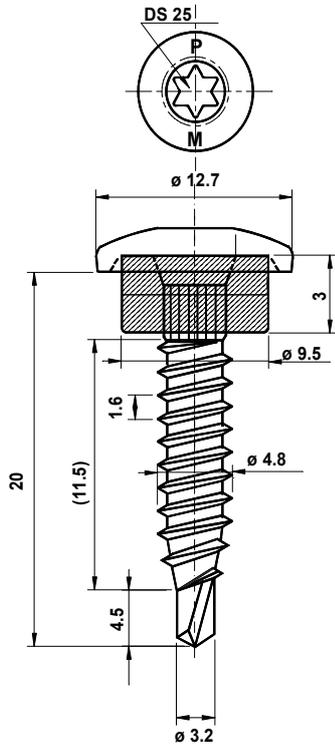
17.6 Nm



All values are ultimate failure loads and do not contain safety factors

Technical Performance Data Sheet

Stainless Low-profile Stitcher Ø 4.8 mm (SL ST 4.8)



PMJ-7140

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 1 point (drill capacity max. 2x1.0 mm)

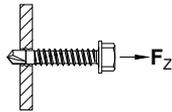
Diameter: 4.8 mm

Features: Free spin to eliminate over-driving

REMARKS:

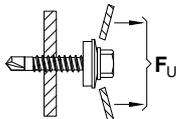
Steel thickness \leq 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	0.63	0.75	1.0	1.25	2x1.25
Steel S 280 GD (Dx51D)	740	1 000	1 520	2 160	5 270

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Low-profile dia. 12.7 mm	2 030	2 940	3 742	4 835	5 930	7 020

* Steel S 280 GD, 395 N/mm²

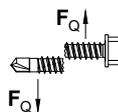
Tensile breaking load Z_B

6.90 kN



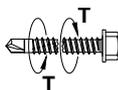
Shear breaking load F_Q

4.60 kN



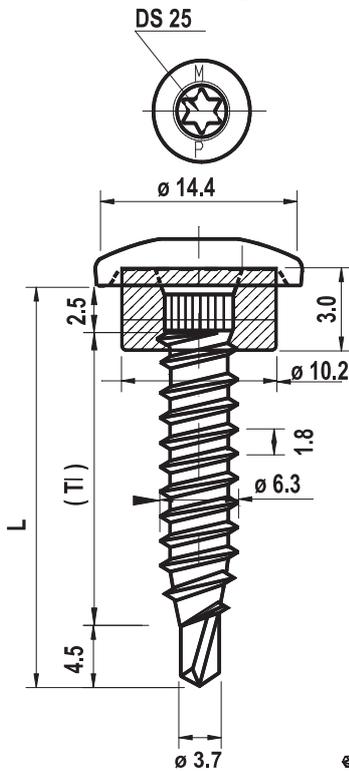
Torsional strength

6.8 Nm



Technical Performance Data Sheet

Stainless Low-profile Stitcher Ø 6.3 mm (SL ST 6.3)



PMJ-7141

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

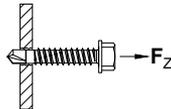
Drill Point: Hardened carbon-steel no. 1 point
(drill capacity 2x0.4 to 2x1.0 mm)

Diameter: 6.3 mm

REMARKS:

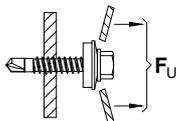
Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	0.63	0.75	1.0	1.25	2x0.75
Steel S 280 GD (Dx51D)	1404	1711	2540	3400	7229

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Low-profile dia. 14.4 mm	3380	4750	6160	6540	7530	8620

* Steel S 280 GD, 395 N/mm²

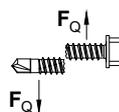
Tensile breaking load Z_b

13.50 kN



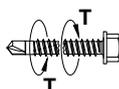
Shear breaking load F_Q

9.00 kN



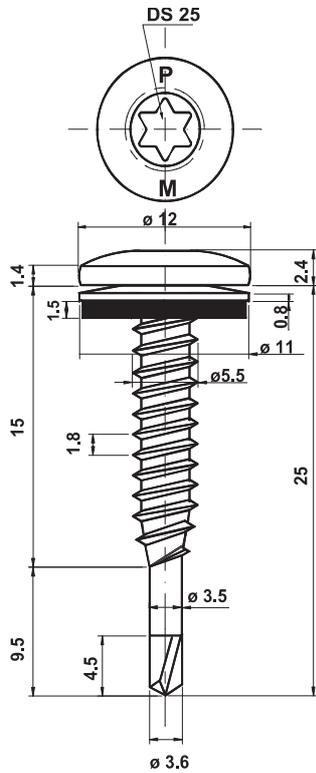
Torsional strength

12.7 Nm



Technical Performance Data Sheet

Stainless Low-profile Ø 12 mm head Stitcher (SL12 ST)



PMJ-7115

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

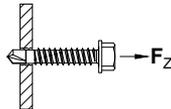
Drill Point: Hardened carbon-steel no. 1 point
(drill capacity 2x0.4 to 2x1.0 mm)

Diameter: 5.5 mm

REMARKS:

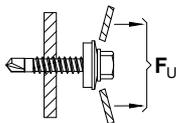
Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	0.63	0.75	1.0	1.25	2x0.75	2x1.25
Steel S 280 GD (Dx51D)	990	1300	2170	2500	2300	5738

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 11.0 mm Stainless steel	1474	2195	2746	4133	5271	6361

* Steel S 280 GD, 395 N/mm²

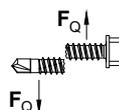
Tensile breaking load Z_B

8.50 kN



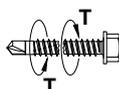
Shear breaking load F_Q

5.65 kN



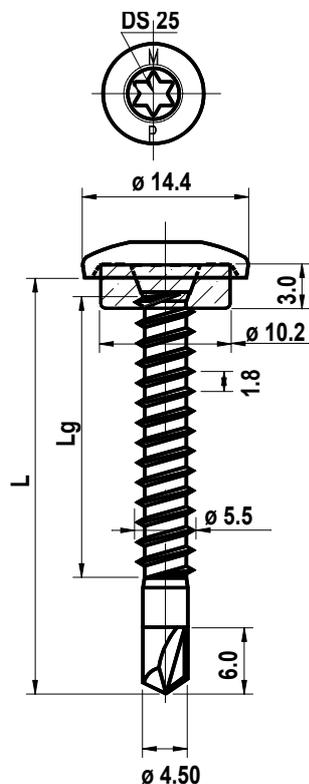
Torsional strength

9.4 Nm



Technical Performance Data Sheet

Stainless Low-profile Light Section (SL LS)



PMJ-7110

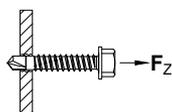
Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 2 point (drill capacity 1.2 to 4.0 mm)

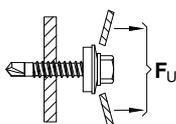
Diameter: 5.5 mm

Pull-out load F_z (N)



Steel thickness (mm)	1.2	1.5	2.0	2.5	3.0	4.0
Steel S 355, 470 N/mm ²	2612	3764	4973	7187	9498	11380

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Low-profile dia. 14.4 mm	3380	4750	6160	6540	7530	8620

* Steel S 280 GD, 395 N/mm²

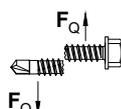
Tensile breaking load Z_B

11.35 kN



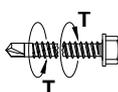
Shear breaking load F_Q

7.55 kN



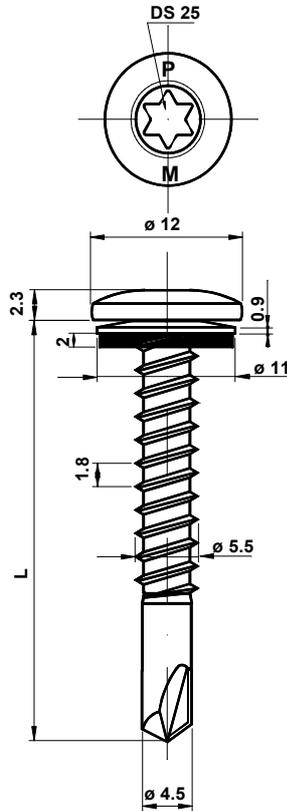
Torsional strength

9.2 Nm



Technical Performance Data Sheet

Stainless Low-profile Ø 12 mm head Light Section (SL12 LS)



PMJ-7515

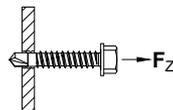
Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 2 point (drill capacity 1.2 to 4.0 mm)

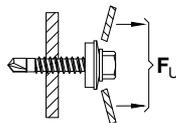
Diameter: 5.5 mm

Pull-out load F_z (N)



Steel thickness (mm)	1.2	1.5	2.0	2.5	3.0	4.0
Steel S 355, 470 N/mm ²	2612	3764	4973	7187	9498	11380

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Washer dia. 11.0 mm Stainless steel	1474	2195	2746	4133	5271	6361

* Steel S 280 GD, 395 N/mm²

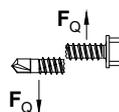
Tensile breaking load Z_b

11.35 kN



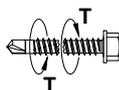
Shear breaking load F_Q

7.55 kN



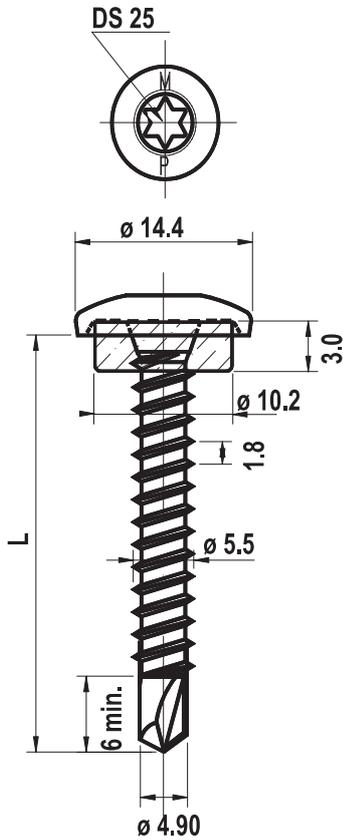
Torsional strength

9.2 Nm



Technical Performance Data Sheet

Stainless Low-profile Mid Section (SL MS)



PMJ-7120

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 3 point (drill capacity 1.5 to 6.0 mm)

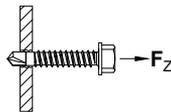
Diameter: 5.5 mm

REMARKS:

Steel thickness \leq 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

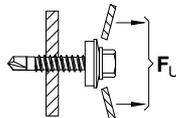
Steel thickness \geq 3 mm S 235 (Ac 37-2) 340 to 470 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	2.0	2.5	3.0	4.0
Steel S 280 GD (Dx51D)	2 730	3 790	4 760	
Steel S 235 (Ac 37-2)				7 520

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Low-profile dia. 14.4 mm	3 380	4 750	6 160	6 540	7 530	8 620

* Steel S 280 GD, 395 N/mm²

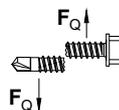
Tensile breaking load Z_B

11.35 kN



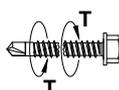
Shear breaking load F_Q

7.55 kN



Torsional strength

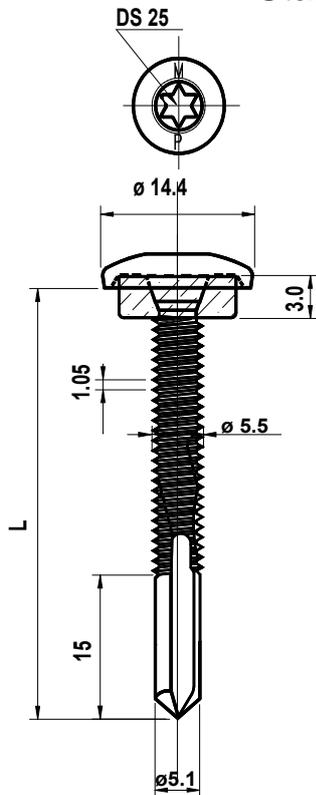
9.2 Nm



All values are ultimate failure loads and do not contain safety factors

Technical Performance Data Sheet

Stainless Low-profile Heavy Section (SL HS)



PMJ-7130

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

Drill Point: Hardened carbon-steel no. 5 point (drill capacity 4.0 to 12.5 mm)

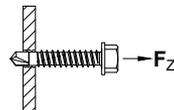
Diameter: 5.5 mm

REMARKS:

Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Steel thickness ≥ 3 mm S 235 (Ac 37-2) 340 to 470 N/mm²

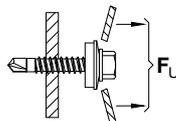
Pull-out load F_z (N)



Steel thickness (mm)	4.0	5.0	6.0
Steel S 235 (Ac 37-2)	10 700	11 600	12 600 *

* rupture of fastener

Pull-over load F_U (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Low-profile dia. 14.4 mm	3 380	4 750	6 160	6 540	7 530	8 620

* Steel S 280 GD, 395 N/mm²

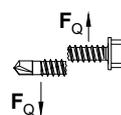
Tensile breaking load Z_b

11.35 kN



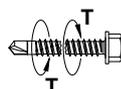
Shear breaking load F_Q

7.55 kN



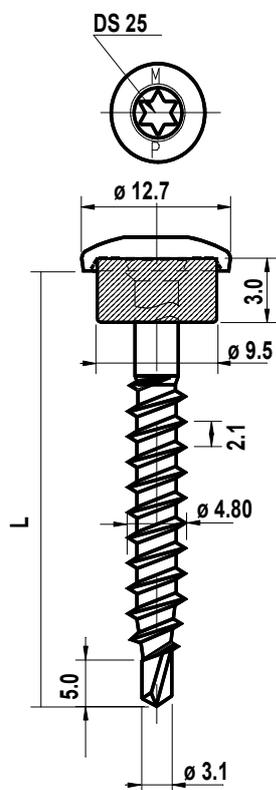
Torsional strength

9.2 Nm



Technical Performance Data Sheet

Stainless Low-profile Timber (SL TI)



PMJ-7160

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Washer Material: Stainless-steel A2 (AISI 304) with vulcanised EPDM

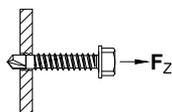
Drill Point: Hardened carbon-steel no. 1 point for fastening profiled sheets to timber (drill capacity in steel max. 2x1.0 mm)

Diameter: 4.8 mm

REMARKS:

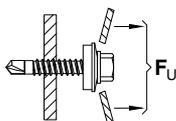
Steel thickness \leq 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Pull-out load F_z (N)



Timber thickness (mm)	10	15	20	25	30
	870	1663	2044	2587	3144

Pull-over load F_u (N)



Steel* thickness (mm)	0.4	0.5	0.63	0.75	0.88	1.0
Low-profile dia. 12.7 mm	2030	2940	3742	4835	5930	7020

* Steel S 280 GD, 395 N/mm²

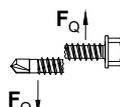
Tensile breaking load Z_b

9.00 kN



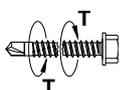
Shear breaking load F_Q

7.40 kN



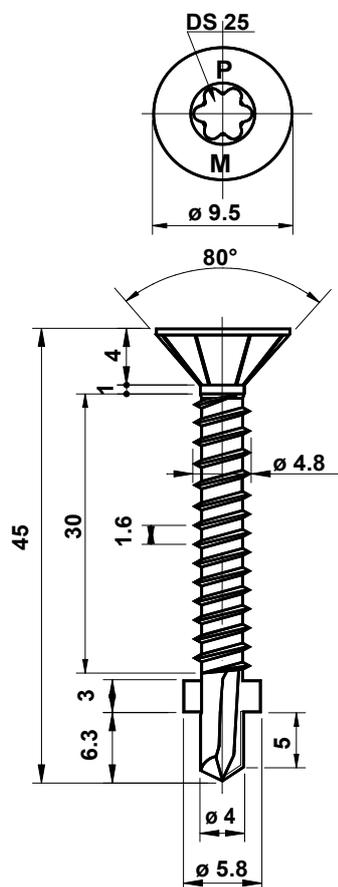
Torsional strength

7.0 Nm



Technical Performance Data Sheet

Stainless Countersunk Light Section Ø 4.8 mm (SC LS 4.8)



PMJ-7591

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Drill Point: Hardened carbon-steel no. 3 point (drill capacity 1.5 to 4.5 mm)

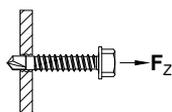
Diameter: 4.8 mm

REMARKS:

Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Steel thickness ≥ 3 mm S 235 (Ac 37-2) 340 to 470 N/mm²

Pull-out load F_z (N)



Steel thickness (mm)	1.5	2.0	2.5	3.0	4.0
Steel S 280 GD (Dx51D)	2402	4039	5656		
Steel S 235 (Ac 37-2)				6334	8680 *

* rupture of fastener

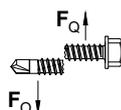
Tensile breaking load Z_B

8.68 kN



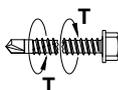
Shear breaking load F_Q

6.04 kN



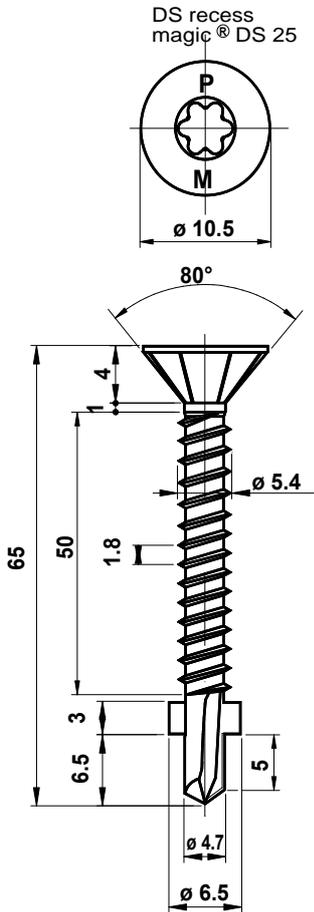
Torsional strength

5.5 Nm



Technical Performance Data Sheet

Stainless Countersunk Light Section Ø 5.5 mm (SC LS 5.5)



PMJ-7591

Fastener Material: Bi-Metal Stainless-steel A2 (AISI 304)

Drill Point: Hardened carbon-steel no. 3 point (drill capacity 1.5 to 4.5 mm)

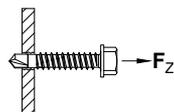
Diameter: 5.5 mm

REMARKS:

Steel thickness ≤ 3 mm S 280 GD (Dx51D) 270 to 500 N/mm²

Steel thickness ≥ 3 mm S 235 (Ac 37-2) 340 to 470 N/mm²

Pull-out load F_z (N)



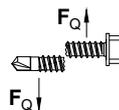
Steel thickness (mm)	1.5	2.0	2.5	3.0	4.0	5.0
Steel S 280 GD (Dx51D)	2456	3565	4585			
Steel S 235 (Ac 37-2)				7584	9924	10500 *

* rupture of fastener

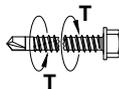
Tensile breaking load Z_B 10.50 kN



Shear breaking load F_Q 11.40 kN



Torsional strength 8.3 Nm





PMJ-tec Technical Information

ETAs - European Technical Assessments - are a cornerstone of our commitment to proven quality and reliability. Available exclusively to European manufacturers, it demonstrates independently assessed standards and differentiates PMJ-tec as a fastener manufacturer from non-manufacturers who supply and distribute generic fasteners.



DIBt - Deutsches Institut für Bautechnik - are the approval body for construction products that controls and issues our ETAs.



The CE mark indicates that a fastener is consistent with the data provided in the relevant Declaration of Performance as issued by PMJ-tec AG.



Quality



Reliability



Verified



Warrantied

Approved



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