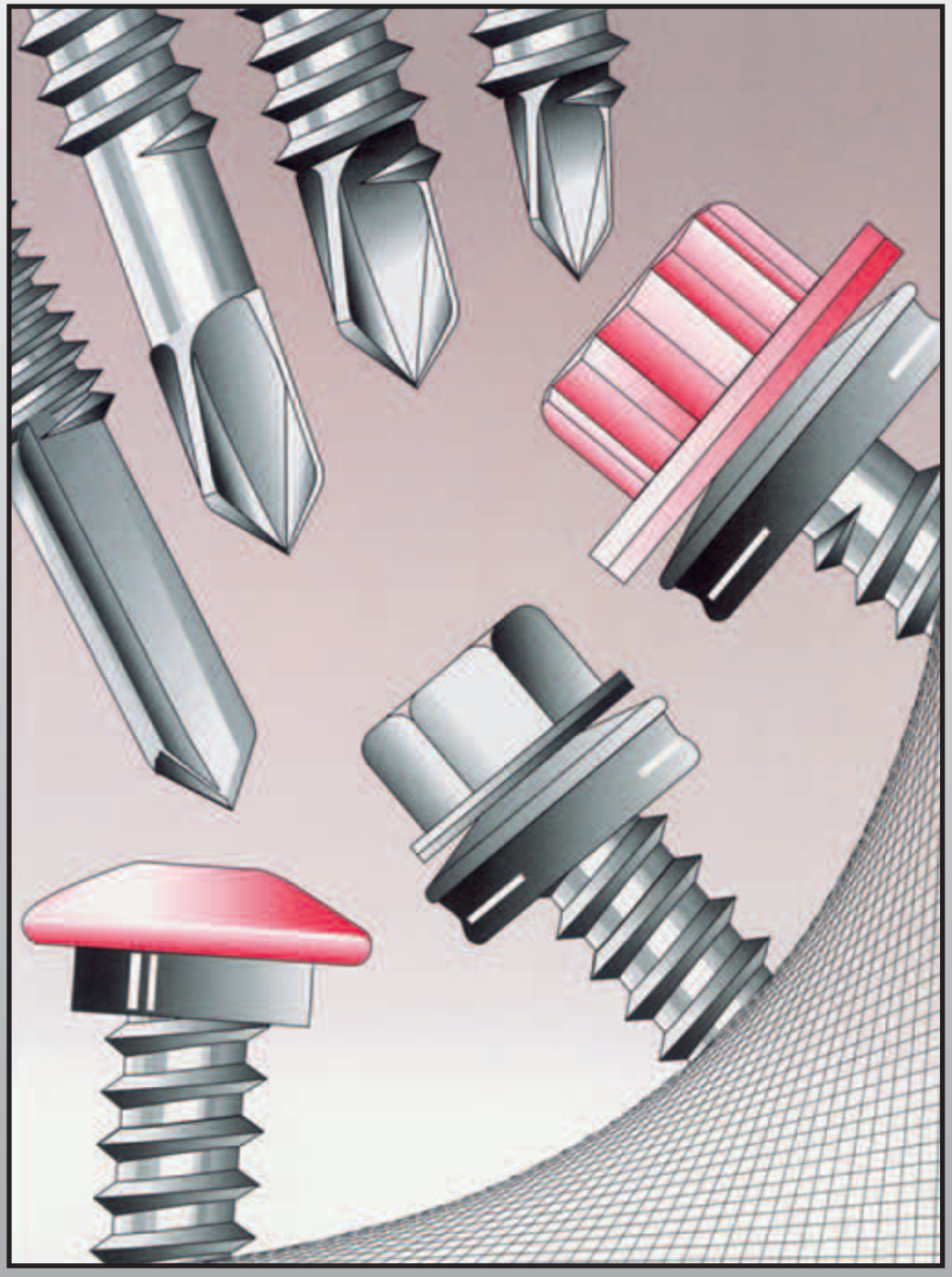
swiss quality



Fastening techniques
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topex technical documentation

Carbon steel self-drilling, fastener programme

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Printed: March 2007

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Austenitic stainless steel grade 304 (A2)/ 316 (A4) self-drilling fastener programme

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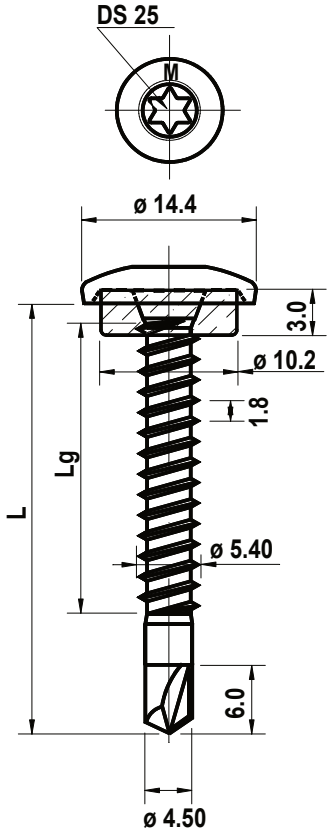
topex: technical documentation

Technical performance data sheet: 7010



PMJ-tec TOPEX UFO 7010 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : EPDM Elastomer

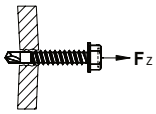
Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

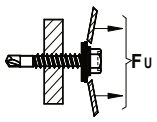
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,0	1,25	1,5	2,0	2,5	3,0
Steel S 280 GD (395 N/mm²)	1’600	2’020	2’310	3´520	5’250	
Steel S 235 (Ac 37 – 2)						8’900

Pull-over load F_U in N



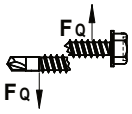
Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4mm diam.	2’980	3’820	4’530	5’610	6’825	8’120

Tensile breaking load Z_B in kN

14,1 kN

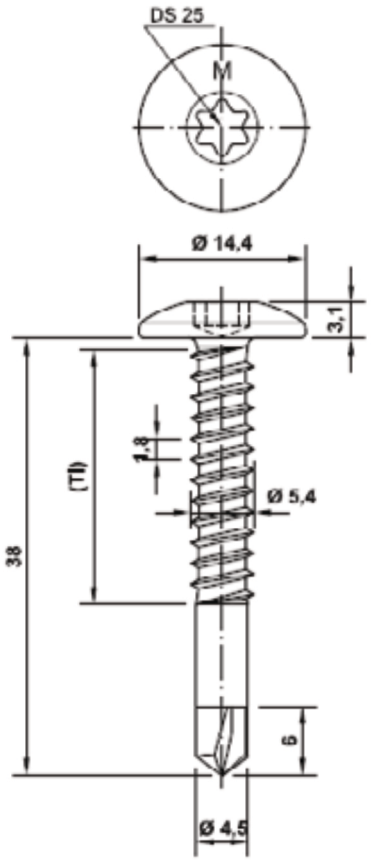
Sheer breaking load F_Q in kN

8,36 kN



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

Technical performance data sheet: 7011



PMJ-tec TOPEX UFO FLAT 7011 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.2 pilot point (drilling capacity 1,2 – 3,5 mm.)

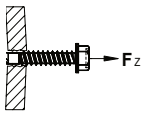
Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:

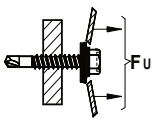
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	1,0	1,25	1,5	2,0	2,5	3,0
Steel S 280 GD (395 N/mm²)	1’600	2’020	2’310	3´520	5’250	
Steel S 235 (Ac 37 – 2)						8’900

Pull-over load F_U in N

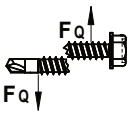


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
without washer	2’980	3’820	4’530	5’610	6’825	8’120

Tensile breaking load Z_B in kN

14,1 kN

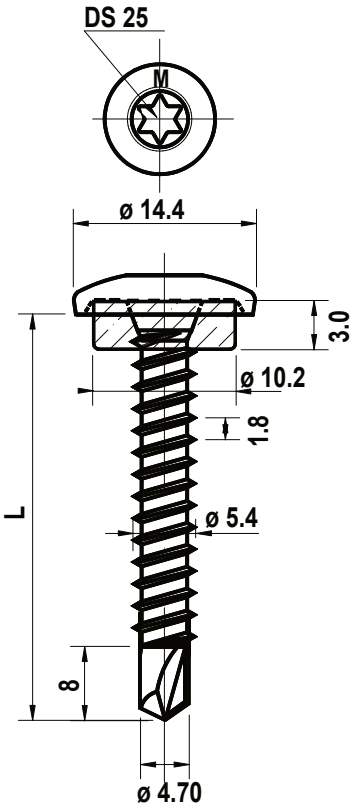
Sheer breaking load F_Q in kN



8,36 kN

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

Technical performance data sheet: 7020



PMJ-tec TOPEX UFO 7020 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

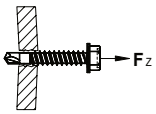
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

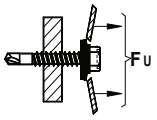


Pull-out load F_Z in N

Steel thickness	1,5	2,0	3,0	4,0	5,0	6,0**
Steel S 280 GD (DX51D)	2.220	3.500				
Steel S 235 (Ac 37 – 2)			6.100	8.700	10.150	14.000

** rupture of fastener up 14 kN !

Pull-over load F_U in N

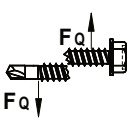


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	2’980	3’820	4’530	5’610	6’825	8’120

Tensile breaking load Z_B in kN

14,1 kN **

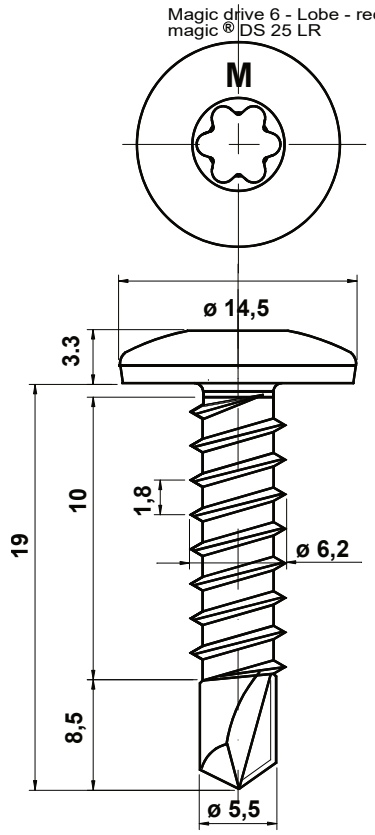
Sheer breaking load F_Q in kN



8,36 kN

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

Technical performance data sheet: 7025



PMJ-tec TOPEX 7025 Ø 6.3mm

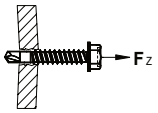
Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 6,3 mm

Coating : White zinc plated (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



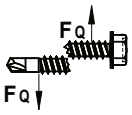
Pull-out load F_Z in N

Steel thickness in mm.	2,5	3,1	4,3	5,0	6,0
Steel S 280 GD (360 N/mm²)	6'275				
Steel S 235 (Ac 37 – 2)		8'155	13'508	15'332	*

* rupture of fastener

Tensile breaking load Z_B in kN 

14,8 kN

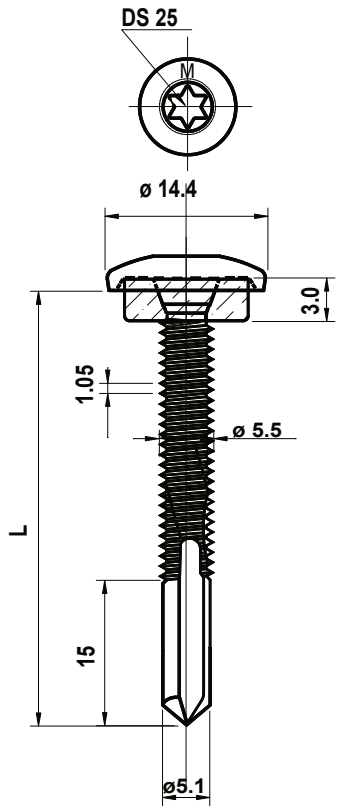
Sheer breaking load F_Q in kN 

12,2 kN

Torsional strength in Nm. 15.5 Nm ** ** rupture bits from 16 Nm.

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

Technical performance data sheet: 7030



PMJ-tec TOPEX UFO 7030 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

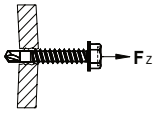
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4,0 – 12,5 mm.)

Diameter : Ø 5,5 mm.

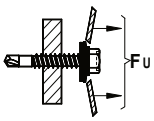
Coating : Dual 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N 

Steel thickness	4,0	5,0	6,0	8,0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10.600	11.200	14.000**			

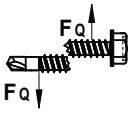
** rupture of fastener at 14 kN !

Pull-over load F_U in N 

Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	2'890	3'696	4'479	5'318	6'625	7'980

Tensile breaking load Z_B in kN 

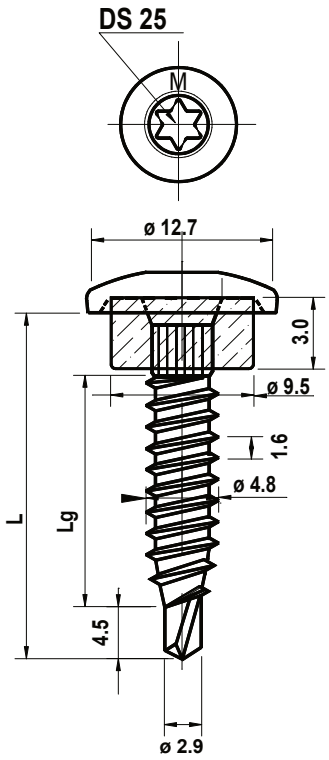
14,1 kN **

Sheer breaking load F_Q in kN 

8,36 kN

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

Technical performance data sheet: 7040



PMJ-tec TOPEX UFO 7040 Ø 4.8mm

Fastener Material : Hardened carbon steel AISI 1018

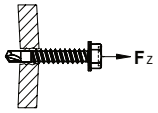
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.1 point (drilling capacity min 2 x 0,63 mm, max 2 X 1.25 mm)

Diameter : Ø 4,8 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

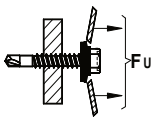
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2



Pull-out load F_Z in N

Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (DX51D)	1'128	1'385	1'596	2'190	5'470

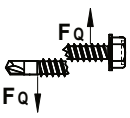
Pull-over load F_U in N



Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 12,7 mm Dia	2'030	2'940	3'742	4'835	5'930	7'020

Tensile breaking load Z_B in kN 

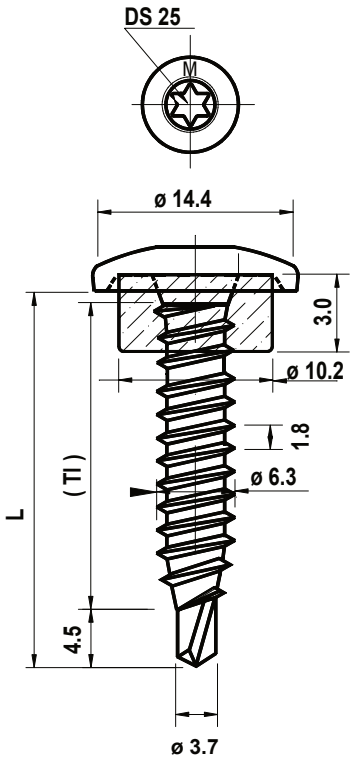
10,70 kN

Sheer breaking load F_Q in kN 

7,10 kN

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

Technical performance data sheet: 7040



PMJ-tec TOPEX UFO 7040 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : EPDM Elastomer

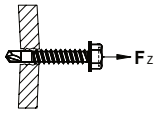
Drill Point : Hardened carbon steel. no.1 point (drilling capacity min 2 x 0,63 mm, max 2 X 1.25 mm.)

Diameter : Ø 6,3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

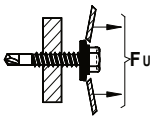
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (360 N / mm2)	1'269	1'718	2'750	3'460	6'973

Pull-over load F_U in N

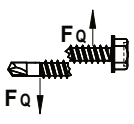


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	3'380	4'750	5'192	6'318	7'530	8'620

Tensile breaking load Z_B in kN

14,8 kN

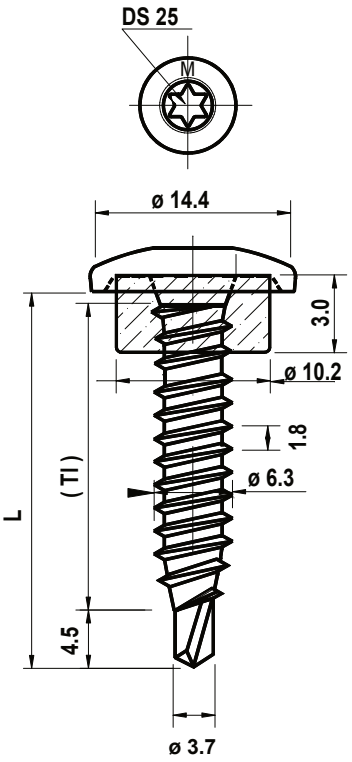
Sheer breaking load F_Q in kN



12,20 kN

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

Technical performance data sheet: 7041



PMJ-tec TOPEX UFO 7041 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : EPDM Elastomer

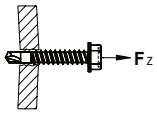
Drill Point : Hardened carbon steel. no.1 point (drilling capacity min 2 x 0,63 mm, max 2 X 1.25 mm.)

Diameter : Ø 6,3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

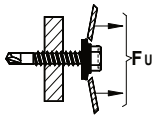
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25	2 X 1.25
Steel S 280 GD (360 N / mm2)	1’269	1’718	2’750	3’460	6’973

Pull-over load F_U in N

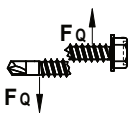


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	3’380	4’750	5’192	6’318	7’530	8’620

Tensile breaking load Z_B in kN

14,8 kN

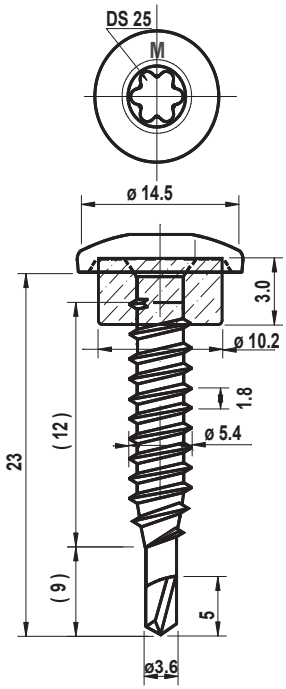
Sheer breaking load F_Q in kN



12,20 kN

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

Technical performance data sheet: 7042



PMJ-tec TOPEX UFO 7042 Ø 5,5 mm.

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.1 point (drilling capacity min 2 x 0.63 mm, max 2 X 1.25 mm.)

Diameter : Ø 5,5 mm.

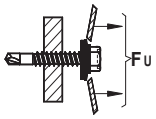
Coating : Dural 1000 hr. (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N

Steel thickness in mm.	0.63	0.75	1.00	1.25	2 X 1.25
Steel S 280 GD (360 N / mm2)	1’080	1’429	2’003	2’713	5’738

Pull-over load F_U in N

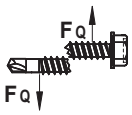


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	2’980	3’820	4’530	5’610	6’825	8’120

Torsional strength in Nm: 13,8 Nm

Tensile breaking load Z_B in kN 

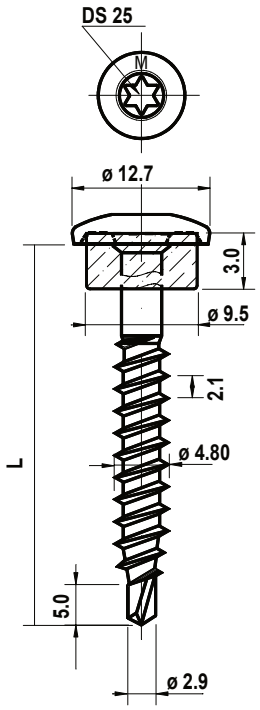
14,1 kN

Sheer breaking load F_Q in kN 

8,36 kN

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

Technical performance data sheet: 7060



PMJ-tec TOPEX UFO 7060 Ø 4.8 mm

Fastener Material : Hardened carbon steel AISI 1018

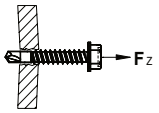
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm to timber)

Diameter : Ø 4,8 mm.

Coating : Dual 250 plus (Tested SST – DIN 50021 SS)

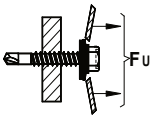
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2



Pull-out load F_Z in N

Timber thickness (fir wood) mm.	10	15	20	25	30	
Values N	870	1'750	1'989	3'139	3'744	

Pull-over load F_U in N

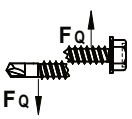


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 12,7 mm Dia	2'030	2'940	3'742	4'835	5'930	7'020

Torsional strength in Nm 9,5 Nm

Tensile breaking load Z_B in kN 

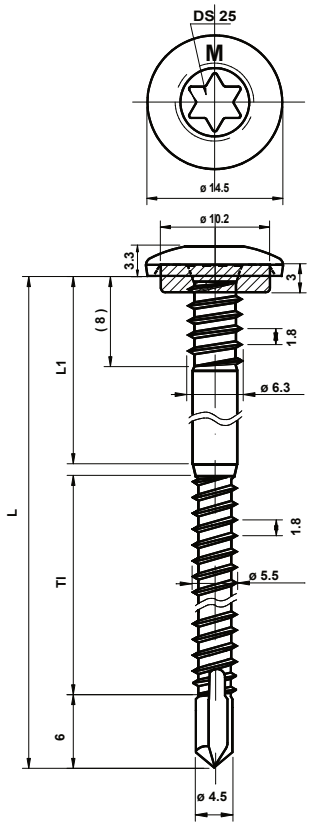
12,30 kN

Sheer breaking load F_Q in kN 

8,28 kN

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

Technical performance data sheet: 7062



PMJ-tec TOPEX UFO 7062 Ø 5.5/6.3mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : EPDM Elastomer

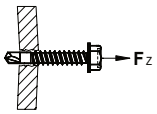
Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 / 6,3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

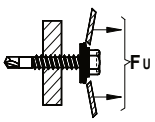
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,0	1,25	1,5	2,0	2,5	3,0
Steel S 280 GD (398 N/mm²)	1’477	2’152	2’830	4’383	5’926	
Steel S 235 (Ac 37 – 2)						8’667

Pull-over load F_U in N

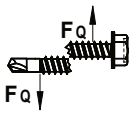


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	2’980	3’856	4’536	5’618	6’825	8’120

Tensile breaking load Z_B in kN

14,1 kN

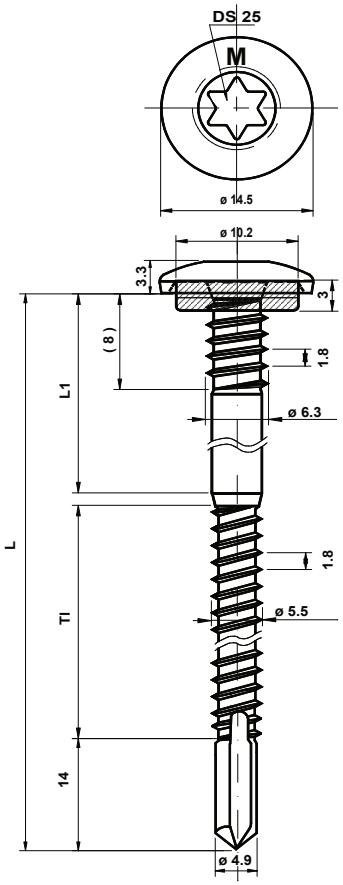
Sheer breaking load F_Q in kN



9,36 kN

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

Technical performance data sheet: 7070



PMJ-tec TOPEX UFO 7070 Ø 5.5/6.3mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : EPDM Elastomer

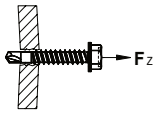
Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 / 6,3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

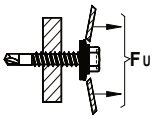
Pull-out load F_Z in N



Steel thickness in mm.	4,0	5,0	6.0	8.0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10’210	14’160	15’915	**	**	**

** rupture of fastener +17 kN !

Pull-over load F_U in N

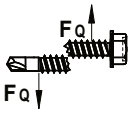


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	2’980	3’856	4’536	5’618	6’825	8’120

Tensile breaking load Z_B in kN

14,1 kN

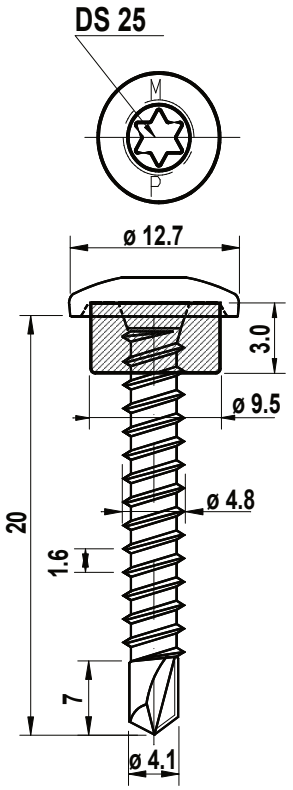
Sheer breaking load F_Q in kN



9,36 kN

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

Technical performance data sheet: 7110



PMJ-tec TOPEX UFO PIASTA 7110 Ø 4.8 mm.

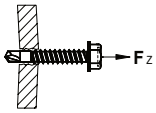
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 -. 4,5 mm.)

Diameter : Ø 4,8 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

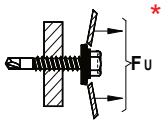


Pull-out load F_Z in N

Steel thickness		1.50	2.0	2.5	3.0	4.0*
Steel S 280 GD (395 N/mm²)		2'037	3'150	4'650		
Steel S 235 (Ac 37 – 2)					6'000	7'727

* Rupture of screws in 4 mm. Steel.(Tensile value)

Pull-over load F_U in N

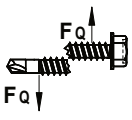


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 12,7 mm Dia	3380	4750	6160	6540	7530	8620

Tensile breaking load Z_B in kN

7,27 kN

Sheer breaking load F_Q in kN

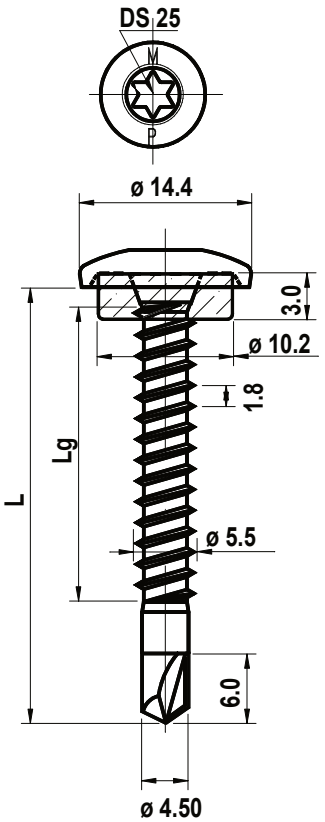


5,54 kN

Torsional strength in Nm 6,0 Nm

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

Technical performance data sheet: 7110



PMJ-tec TOPEX UFO 7110 Ø 5.5mm

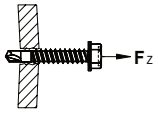
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 mm.

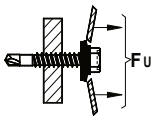
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

Steel thickness	1,2	1,5	2,0	2,5	3,0	3,5
Steel S 280 GD (395 N/mm²)	1600	2020	3040	4200	5270	6000
Steel S 235 (Ac 37 – 2)						

Pull-over load F_U in N

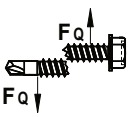


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	3380	4750	6160	6540	7530	8620

Tensile breaking load Z_B in kN

10,2 kN

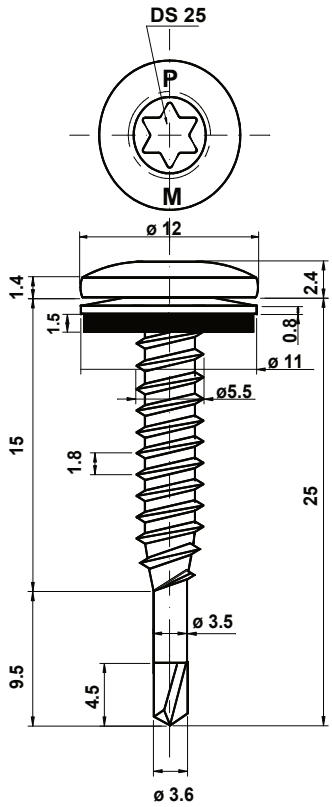
Sheer breaking load F_Q in kN



8,35 kN

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

Technical performance data sheet: 7115



PMJ-tec TOPEX PIASTA 7115 Ø 5.5mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

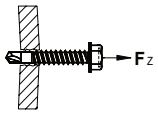
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity max. 2 X 1,25 mm.)

Diameter : Ø 5,5 mm

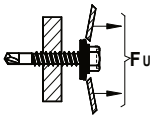
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25	2x0,75	
Steel S 280 GD (DX51D)	990	1300	2170	2500	2300	

Pull-over load F_U in N

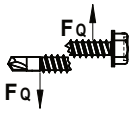


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **11** mm. Stainless steel	3380	4750	6160	6540	7530	8620

Torsional strength in Nm. 8,5 Nm

Tensile breaking load Z_B in kN 

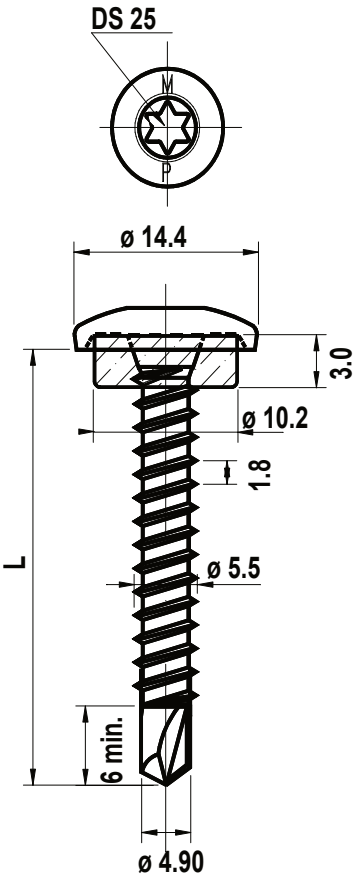
10,2 kN

Sheer breaking load F_Q in kN 

7,7 kN

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

Technical performance data sheet: 7120



PMJ-tec TOPEX UFO 7120 Ø 5.5mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

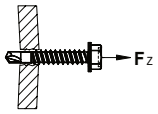
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 5,5 mm.

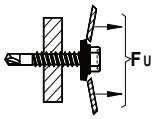
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,2	1,5	2,0	2,5	3,0	4,0
Steel S 280 GD (DX51D)					4760	7520
Steel S 235 (Ac 37 – 2)						

Pull-over load F_U in N

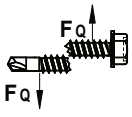


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	3380	4750	6160	6540	7530	8620

Tensile breaking load Z_B in kN

10,20 kN

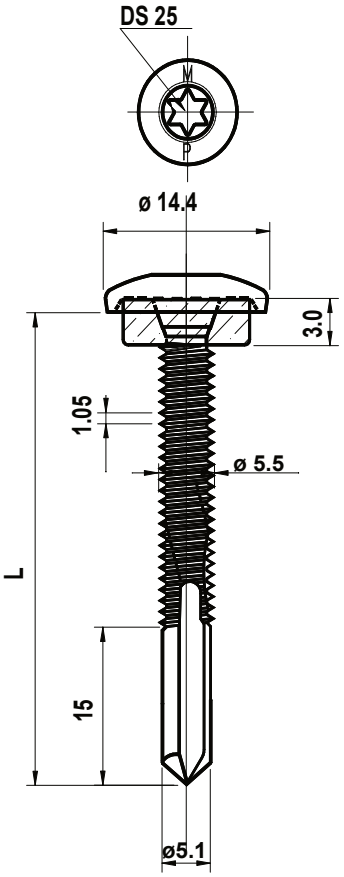
Sheer breaking load F_Q in kN



8,35 kN

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

Technical performance data sheet: 7130



PMJ-tec TOPEX UFO 7130 Ø 5.5mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

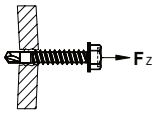
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4,0 – 12,5 mm.)

Diameter : Ø 5,5 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

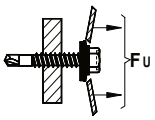
Pull-out load F_Z in N



Steel thickness	4,0	5,0	6,0	8,0	10,0	12,0
Steel S 280 GD (DX51D)	10700		12720*			
Steel S 235 (Ac 37 – 2)						

* rupture of fastener

Pull-over load F_U in N

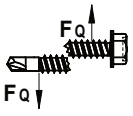


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	3380	4750	6160	6540	7530	8620

Tensile breaking load Z_B in kN

10,2 kN

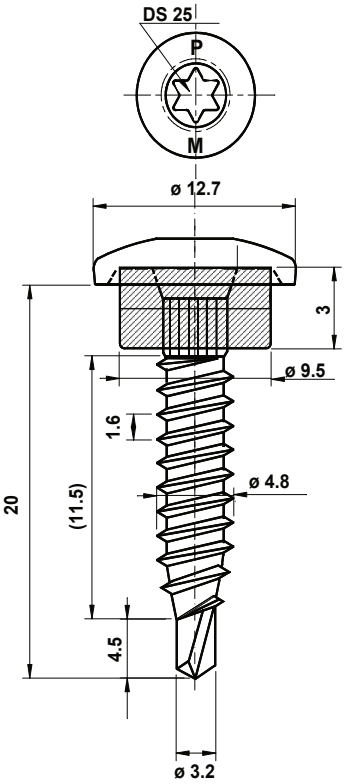
Sheer breaking load F_Q in kN



8,35 kN

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

Technical performance data sheet:7140 4,8



PMJ-tec TOPEX UFO 7140 Ø 4.8mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

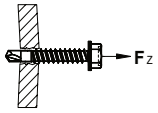
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.1 point (drilling capacity min 2 x 0.63 mm, max 2 x 1.25 mm)

Diameter : Ø 4,8 mm.

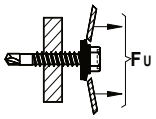
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0,63	0,75	1,00	1,25	2 x 1.25
Steel S 280 GD (DX51D)	580	910	1430	2010	5'120

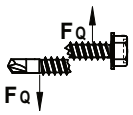
Pull-over load F_U in N



Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 12,7 mm Dia	3380	4750	6160	6540	7530	8620

Tensile breaking load Z_B in kN 

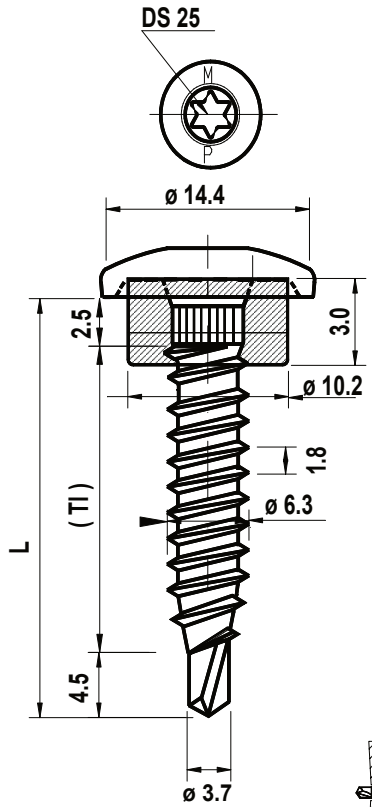
9,00 kN

Sheer breaking load F_Q in kN 

7,4 kN

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

Technical performance data sheet: 7140/25mm



PMJ-tec TOPEX UFO 7140 Ø 6.3mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

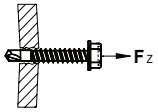
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.1 point (drilling capacity min 2 x 0.63 mm, max 2 x 1.25 mm.)

Diameter : Ø 6,3 mm.

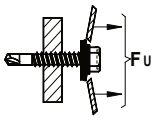
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0,63	0,75	1,00	1,25	2 x 1.25
Steel S 280 GD (395 N/mm²)	1150	1030	1580	2270	7229

Pull-over load F_U in N

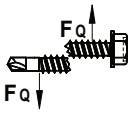


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	3380	4750	6160	6540	7530	8620

Tensile breaking load Z_B in kN

10,00 kN

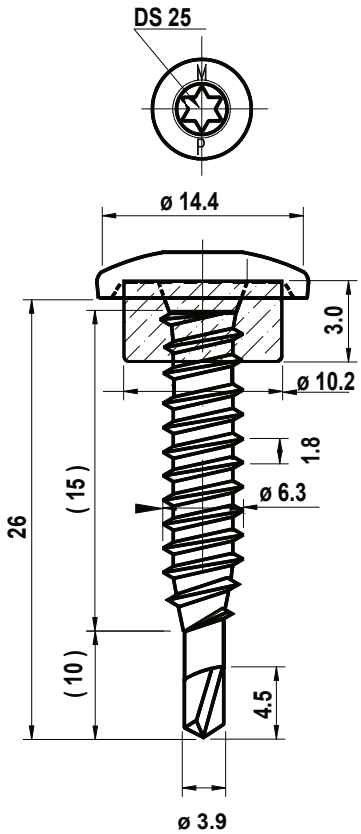
Sheer breaking load F_Q in kN



8,20 kN

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

Technical performance data sheet: 7141/26mm



PMJ-tec TOPEX UFO 7141 Ø 6.3mm

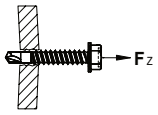
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 x 1.25 mm.)

Diameter : Ø 6,3 mm.

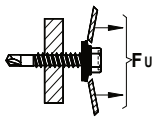
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

Steel thickness in mm.	0,63	0,75	1,00	1,25	2 x 1.25
Steel S 280 GD (395 N/mm²)	1150	1030	1580	2270	6055

Pull-over load F_U in N

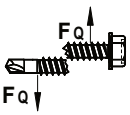


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Washer rubber dia. **10** mm. EPDM	3380	4750	6160	6540	7530	8620

Tensile breaking load Z_B in kN

10,00 kN

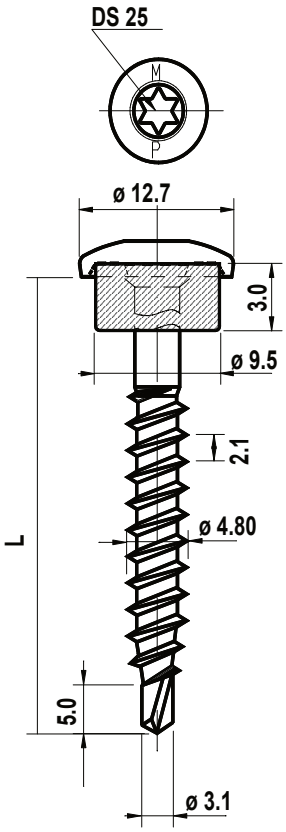
Sheer breaking load F_Q in kN



8,2 kN

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

Technical performance data sheet: 7160



PMJ-tec TOPEX UFO 7160 Ø 4.8 mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

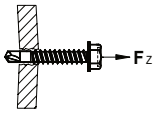
Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.1 point (drilling capacity min 0.63 mm, max 2 x 1.25 mm to timber)

Diameter : Ø 4,8 mm.

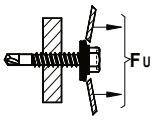
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



Timber thickness (fir wood) mm.	10	15	20	25	30	
Values N	870	1'663	2'044	2'587	3'144	

Pull-over load F_U in N

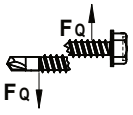


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 12,7 mm Dia	2'030	2'940	3'742	4'835	5'930	7'020

Torsional strength in Nm: 7 Nm

Tensile breaking load Z_B in kN 

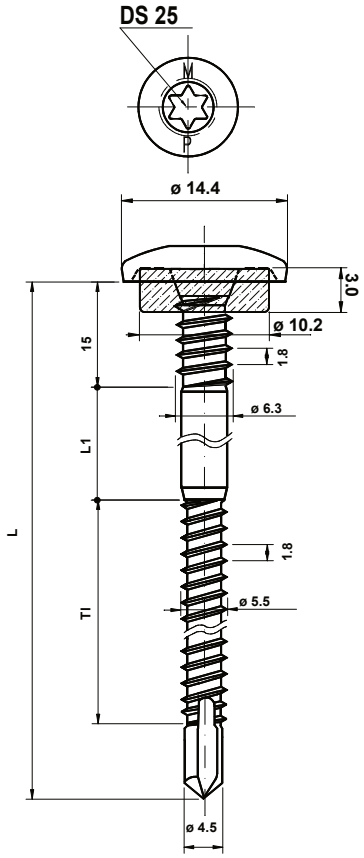
9,0 kN

Sheer breaking load F_Q in kN 

7,4 kN

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

Technical performance data sheet: 7171



PMJ-tec TOPEX UFO 7171 Ø 5.5/6.3mm

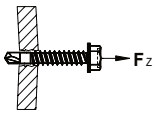
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Washer Material : EPDM Elastomer

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2– 3,5 mm.)

Diameter : Ø 5,5 / 6,3 mm

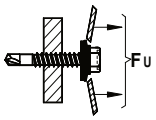
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

Steel thickness	1,2	1,5	2,0	2,5	3,0	4,0
Steel S 280 GD (DX51D)	1600	2300	3040	5750	5720	11380

Pull-over load F_U in N

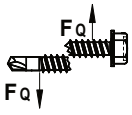


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Low profile head 14,4 mm Dia	3380	4750	6160	6540	7530	8620
Washer dia. **19** mm. Stainless steel	Insulated Roof Ks 1000 RT = 3'416 N					

Tensile breaking load Z_B in kN

13,25 kN

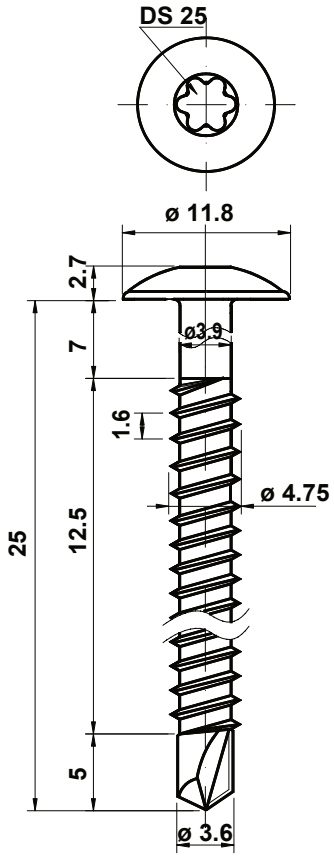
Sheer breaking load F_Q in kN



8,80 kN

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

Technical performance data sheet: 7180



PMJ-tec TOPEX UFO PIASTA 7180 Ø 4.8 mm.

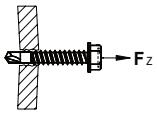
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 0,75 - 2,50 mm.)

Diameter : Ø 4,8 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

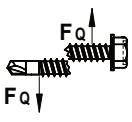
Pull-out load F_Z in N



Steel thickness in mm.	0.75	1.00	1.25	1.50	2.0	2.5
Steel S 280 GD (395 N/mm²)	1’113	1’582	2’155	2’835	4’191	6’221

Tensile breaking load Z_B in kN 

8,68 kN

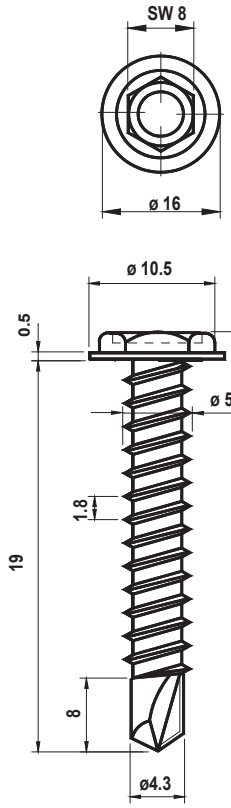
Sheer breaking load F_Q in kN 

6,04 kN

Torsional strength in Nm 5,0 Nm.

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

Technical performance data sheet: 7213



PMJ-tec TOPEX 721355019I

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,2 – 4,3 mm.)

Diameter : Ø 5,5 mm. Dia

Coating : Dural 250 plus (Tested SST – DIN 50021 SS

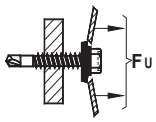
New product not yet **PMJ-tec TOPEX** product brochure.

"All values mentioned below are ultimate failure loads and do not contain any safety factors"

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N

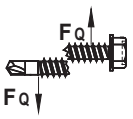
Steel thickness	1,2	1,5	2,0	2,5	3,3	4,3
Steel S 280 GD (395 N/mm²)	2'245	2'977	4'551	6'348		nr
Steel S 235 (Ac 37 - 2)					9'586	10'544

Pull-over load F_U in N 

Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3210	4550	4850	5950	8620	9790
Washer dia. **19** mm. galvanized	3530	5000	5340	6540	9480	10760

Tensile breaking load Z_B in kN 

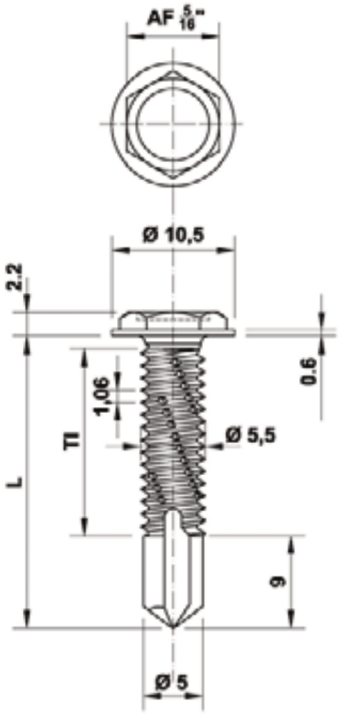
810,5 kN

Sheer breaking load F_Q in kN 

8 8,36 kN

Technical performance data sheet: 7215

PMJ-tec TOPEX 7215 Ø 5.5 mm.



Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.4 point (drilling capacity 3 – 6 mm. or min. 2 X 1.5 / Max. 4 X 1.5 mm.)

Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N

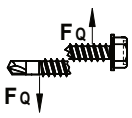
Steel thickness in mm.	2 X 1.5	3 X 1.5	4 X 1.5		3,3	4,3
Steel S 280 GD (395 N/mm²)	5'499	7'857	9'919			
Steel S 235 (Ac 37 - 2)					8'284	*11'765

* rupture of fastener at 11 kN !

Torsional strength in Nm 13,5 Nm

Tensile breaking load Z_B in kN 

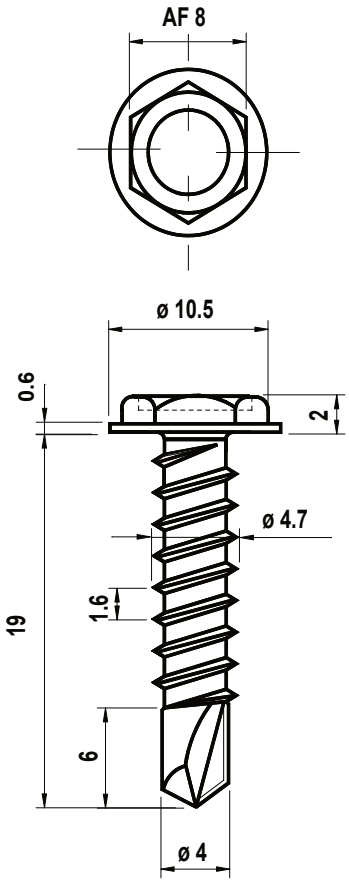
11,76 kN

Sheer breaking load F_Q in kN 

8,36 kN

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

Technical performance data sheet: 7216



PMJ-tec TOPEX 7216 Ø 4.8 mm.

Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 4 mm.)

Diameter : Ø 4,8 mm.

Coating : White zinc plated (Tested SST – DIN 50021 SS)

New product for fastening: Profil steel to steel sub-structure 3 X 1 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

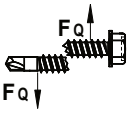
Pull-out load F_Z in N

Steel thickness in mm.	1 X 1,0	2 X 1,0	3 X 1,0	
Steel S 280 GD (395 N/mm²)	1’385	2’475	3’924	

Torsional strength in Nm: 9,5 Nm

Tensile breaking load Z_B in kN 

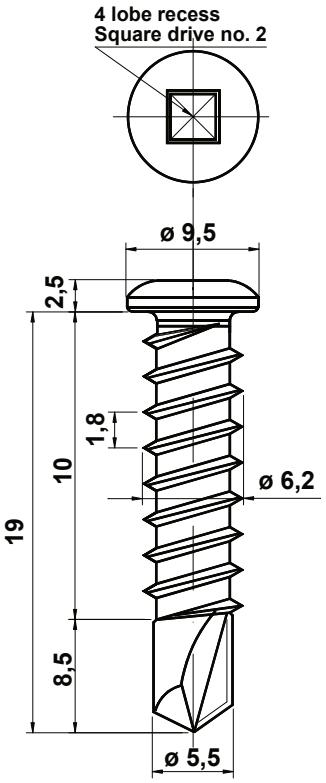
7,72 kN

Sheer breaking load F_Q in kN 

6,9 kN

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

Technical performance data sheet: 7225



PMJ-tec TOPEX 7225 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

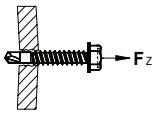
Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 6,3 mm

Coating : White zinc plated (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N

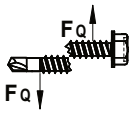


Steel thickness in mm.	2,5	3,1	4,3	5,0	
Steel S 280 GD (360 N/mm²)	6'275				
Steel S 235 (Ac 37 – 2)		8'155	13'508	*	

* rupture of fastener (small head)

Tensile breaking load Z_B in kN 

≈ 15 kN

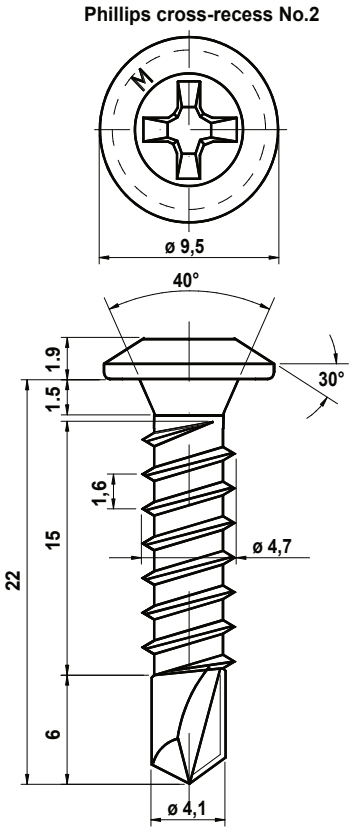
Sheer breaking load F_Q in kN 

11,9 kN

Torsional strength in Nm. 14 Nm ** ** rupture bits from 14,5 Nm.

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

Technical performance data sheet: 7270



PMJ-tec TOPEX 7270 Ø 4.8 mm.

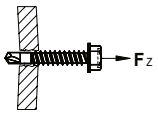
Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 4,5 mm.)

Diameter : Ø 4,8 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N 

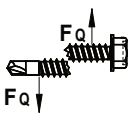
Steel thickness in mm.	1,5	2,0	2,5	3,0	4,0 *
Steel S 280 GD (385 N/mm²)	2'384	3'573	5'316		
Steel S 235 (Ac 37 – 2)				7'923	+ 10'000

*4 mm. Steel rupture of fastener !

Torsional strength in Nm | 8,5 Nm |

Tensile breaking load Z_B in kN 

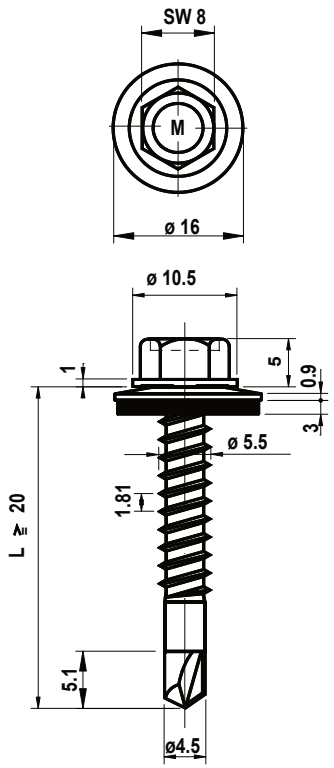
9,8 kN

Sheer breaking load F_Q in kN 

6,5 kN

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

Technical performance data sheet: 7310



PMJ-tec TOPEX 7310 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

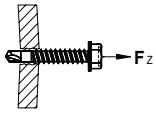
Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 mm.
Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

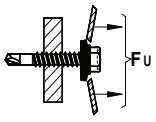
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,0	1,25	1,5	2,0	2,5	3,0
Steel S 280 GD (395 N/mm²)	1’655	2’062	2’765	4’219	6’256	
Steel S 235 (Ac 37 – 2)						8’919

Pull-over load F_U in N

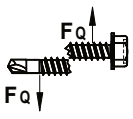


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3210	4550	4850	5950	8620	9790
Washer dia. **19** mm. galvanized	3530	5000	5340	6540	9480	10760

Tensile breaking load Z_B in kN

14,1 kN

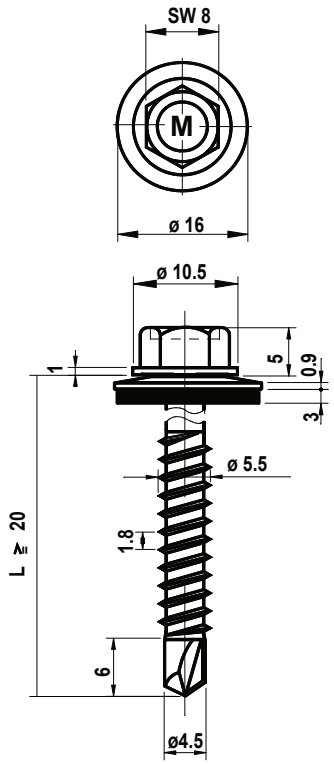
Sheer breaking load F_Q in kN



8,36 kN

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

Technical performance data sheet: 7320



PMJ-tec TOPEX 7320 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

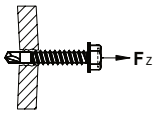
Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

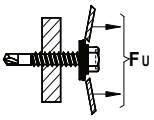
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,0	1,5	2,0	2,5	3,0	
Steel S 280 GD (395 N/mm²)	1250	2250	3500	4800	6100	

Pull-over load F_U in N

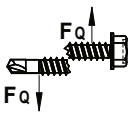


Steel S 280 GD (Dx51D)	0,40	0,50	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3210	4550	4850	5950	8620	9790
Washer dia. **19** mm. galvanized	3530	5000	5340	6540	9480	10760

Tensile breaking load Z_B in kN

14,10 kN

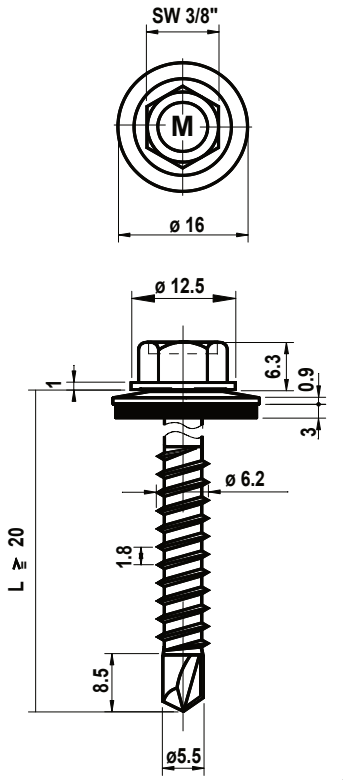
Sheer breaking load F_Q in kN



8,36 kN

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

Technical performance data sheet: 7325



PMJ-tec TOPEX 7325 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

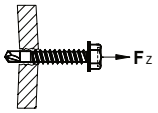
Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 6,3 mm

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

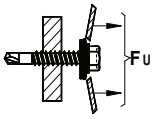
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	2,5	3,1	4,3	5,0	6,0
Steel S 280 GD (360 N/mm²)	6'275				
Steel S 235 (Ac 37 – 2)		8'155	13'508	15'332	17'320

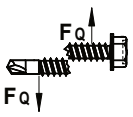
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3440	4870	5820	6870	10100	12170
Washer dia. **19** mm. galvanized	3860	5470	6120	8390	12120	14500

Tensile breaking load Z_B in kN 

17,2 kN

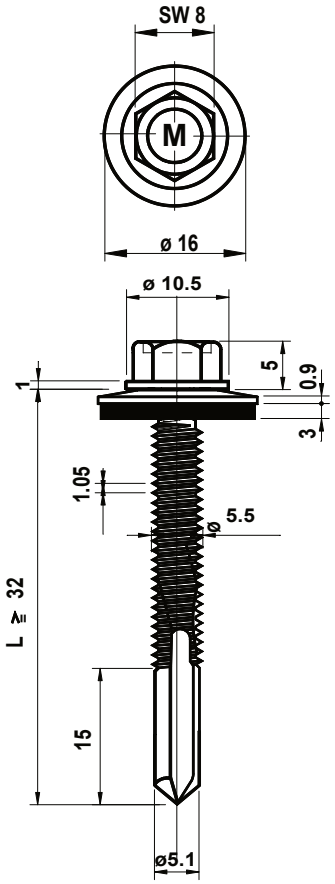
Sheer breaking load F_Q in kN 

11,9 kN

Torsional strength in Nm. 20 Nm

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

Technical performance data sheet: 7330



PMJ-tec TOPEX 7330 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

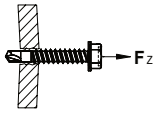
Drill Point : Hardened carbon steel. no. 5 point (drilling capacity 4,0 – 12,5 mm.)

Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

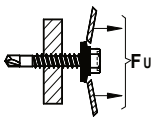
Pull-out load F_Z in N



Steel thickness	4,0	5,0	6.0	8.0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10'615	11'210	15'000*			

* rupture of fastener

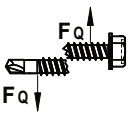
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3210	4550	4850	5950	7530	8620
Washer dia. **19** mm. Stainless steel	3530	5000	5340	6540	8620	9760

Tensile breaking load Z_B in kN 

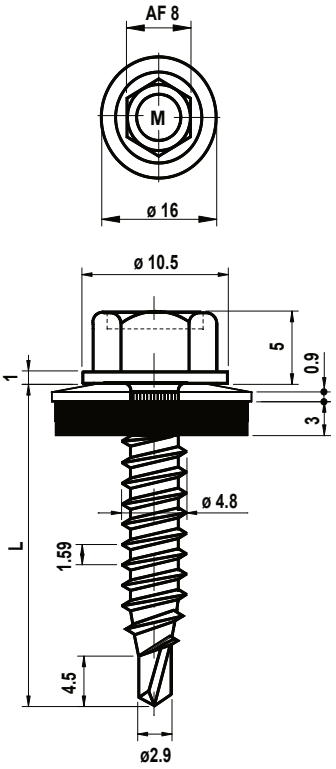
14,10 kN

Sheer breaking load F_Q in kN 

8,36 kN

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

Technical performance data sheet: 7335



PMJ-tec TOPEX 7335 Ø 4.8mm

Fastener Material : Hardened carbon steel AISI 1018

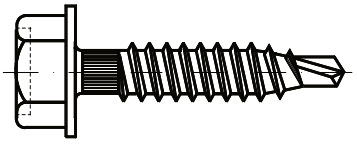
Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

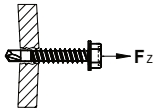
Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 4,8 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

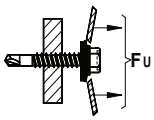




Pull-out load F_Z in N

Steel thickness in mm.	0.63	0.75	1.00	1.25	2 X 1.25
Steel S 280 GD (DX51D)	850	1010	1600	2190	5470

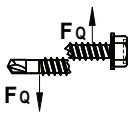
Pull-over load F_U in N



Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

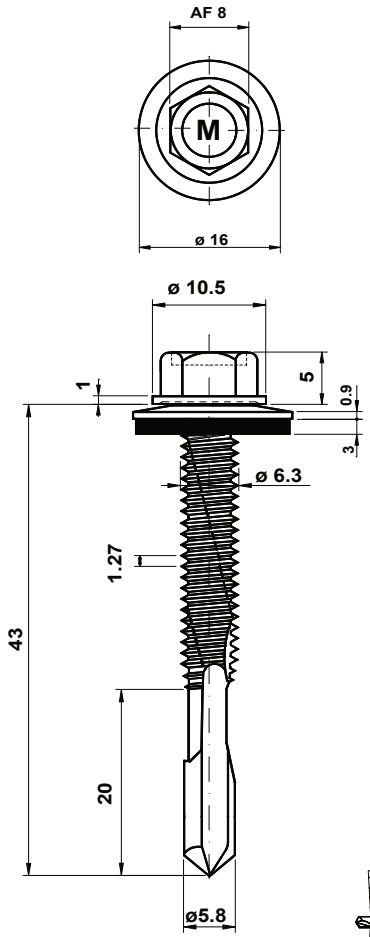
10,70 kN

Sheer breaking load F_Q in kN 

7,10 kN

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

Technical performance data sheet: 7336



PMJ-tec TOPEX 7336 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

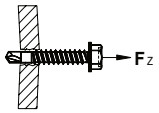
Drill Point : Hardened carbon steel. no. 6 point (drilling capacity 6,0 – 18,0 mm.)

Diameter : Ø 6,3 mm.

Coating : Dural 250 plus (Tested SST - DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

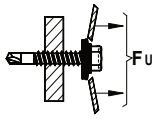
Pull-out load F_Z in N



Steel thickness	6,0	8,0	10.0	12.0	15,0	18,0
Steel S 235 (Ac 37 – 2)	17200*					

* rupture of fastener

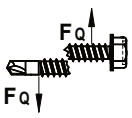
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3440	4870	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3860	5470	5630	8390	8390	9480

Tensile breaking load Z_B in kN 

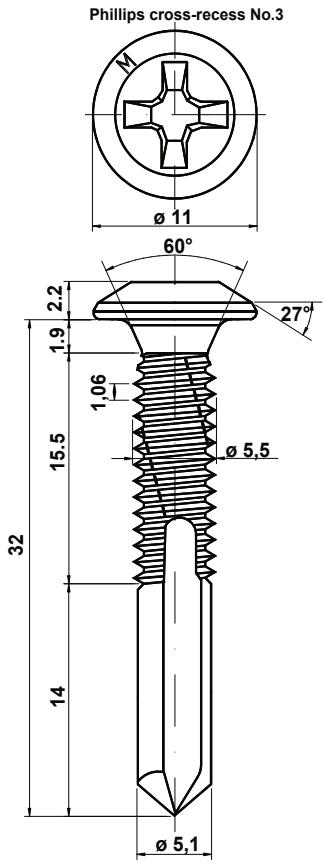
17,20 kN

Sheer breaking load F_Q in kN 

12,20 kN

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

Technical performance data sheet: 7337



PMJ-tec TOPEX 7337 Ø 5.5 mm.

Fastener Material : Hardened carbon steel AISI 1018

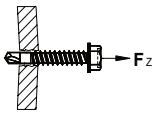
Drill Point : Hardened carbon steel. no. 5 point (drilling capacity 4,0 – 12,5 mm.)

Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



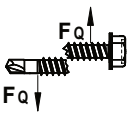
Steel thickness in mm.	4,0	5,0	6.0	8.0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10'615	11'210	15'000*)			

*) rupture of fastener

Torsional strength in Nm: 13 ,5 Nm

Tensile breaking load Z_B in kN 

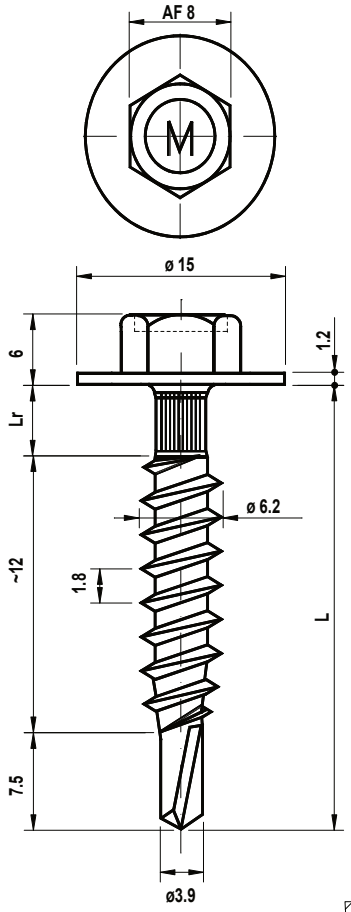
14,10 kN

Sheer breaking load F_Q in kN 

8,36 kN

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

Technical performance data sheet: 7339 6,3



PMJ-tec TOPEX 7339 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

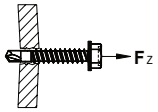
Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm. with 22mm & 2 X 1.50 mm. with 23 mm.)

Diameter : Ø 6.3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N

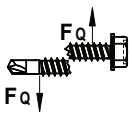


Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (360 N / mm2)	1210	1680	2640	3230	7044

Torsional strength in Nm. 18 Nm

Tensile breaking load Z_B in kN 

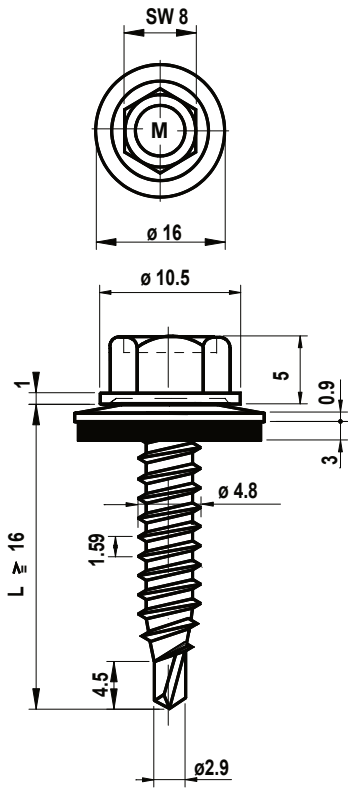
17,20 kN

Sheer breaking load F_Q in kN 

12,20 kN

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

Technical performance data sheet: 7340 4,8



PMJ-tec TOPEX 7340 Ø 4.8mm

Fastener Material : Hardened carbon steel AISI 1018

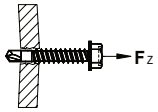
Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 4,8 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

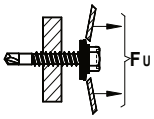
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (DX51D)	850	1010	1600	2190	5470

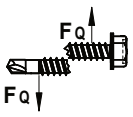
Pull-over load F_U in N



Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

10,70 kN

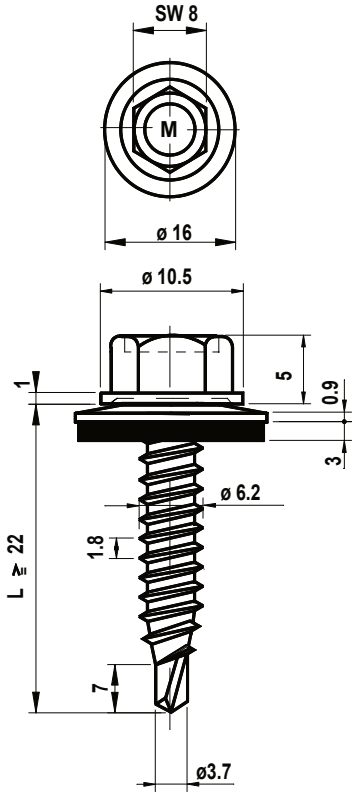
Sheer breaking load F_Q in kN 

7,10 kN

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

Technical performance data sheet: 7340 6,3

PMJ-tec TOPEX 7340 Ø 6.3mm



Fastener Material : Hardened carbon steel AISI 1018

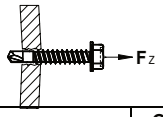
Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

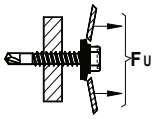
Diameter : Ø 6.3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N 

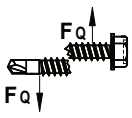
Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (360 N / mm2)	1269	1718	2750	3460	6973

Pull-over load F_U in N 

Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3210	4550	4850	5950	8620	9790
Washer dia. **19** mm. galvanized	3530	5000	5340	6540	9480	10760

Tensile breaking load Z_B in kN 

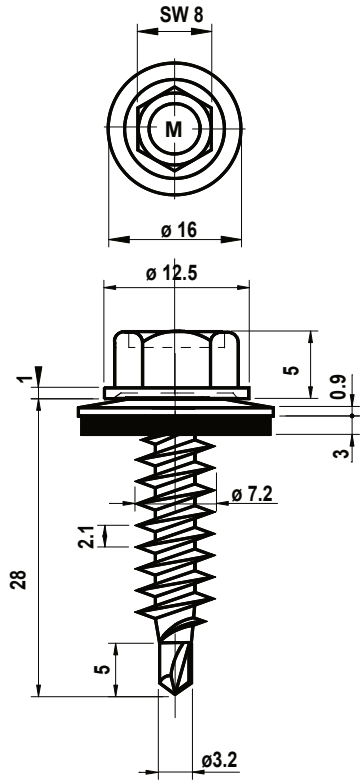
17,20 kN

Sheer breaking load F_Q in kN 

12,20 kN

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

Technical performance data sheet: 7340 7,2



PMJ-tec TOPEX 7340 Ø 7.2mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm. Max.)

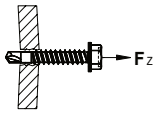
Diameter : Ø 7.2 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS: *Flange head 12.5 instead 10.5 mm.(2 1.9.04)*

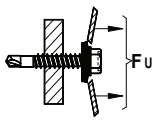
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25		
Steel S 280 GD (360 N / mm2)	1956	2530	3352	4432		

Pull-over load F_U in N



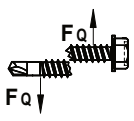
Pull-over reference head with flange 10.5 mm.

Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. Stainless Steel	2880	4110	4465	6174	8455	9585

Tensile breaking load Z_B in kN

13,1 kN

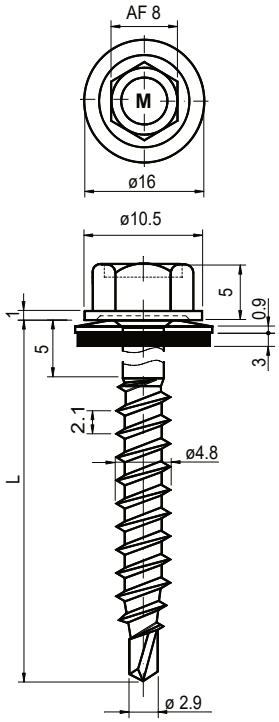
Sheer breaking load F_Q in kN



8,4 kN

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

Technical performance data sheet: 7341



PMJ-tec TOPEX 7341 Ø 4.8mm

Fastener Material : Hardened carbon steel AISI 1018

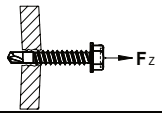
Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point for fastening profiled sheets to timber

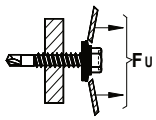
Diameter : Ø 4,8 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N 

Timber thickness (fir wood) mm.	10	15	20	25	30	
Values N	870	1'750	1'989	3'139	3'744	

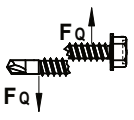
Pull-over load F_U in N 

Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Torsional strength in Nm 9,5 Nm.

Tensile breaking load Z_B in kN 

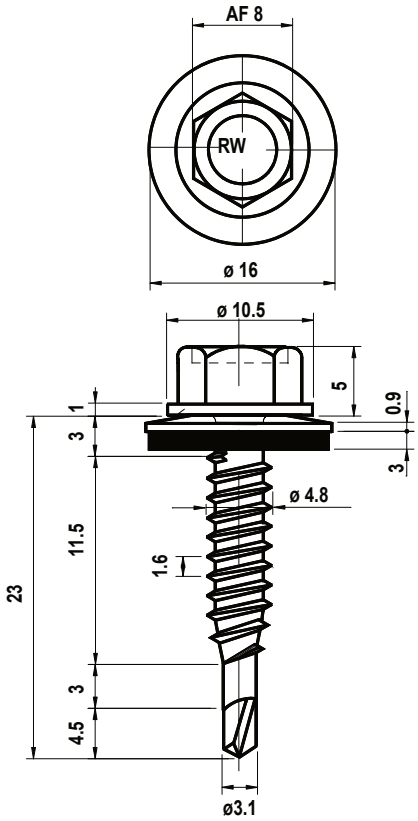
12,30 kN

Sheer breaking load F_Q in kN 

8,28 kN

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

Technical performance data sheet: 7341



PMJ-tec TOPEX 7341 Ø 4.8 mm.

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 0,63 – 2 X 1.25 mm.)

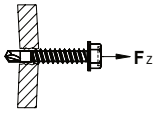
Diameter : Ø 4,8 mm.

Coating : Dural 1000 hr. (Tested SST – DIN 50021 SS)

Please refer of the **PMJ-tec topex** product brochure for complete programme available.

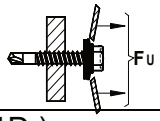
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25	2 X 1.25
Steel S 280 GD (DX51D)	1'007	1'235	1'827	2'621	5'270

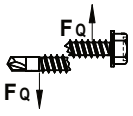
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

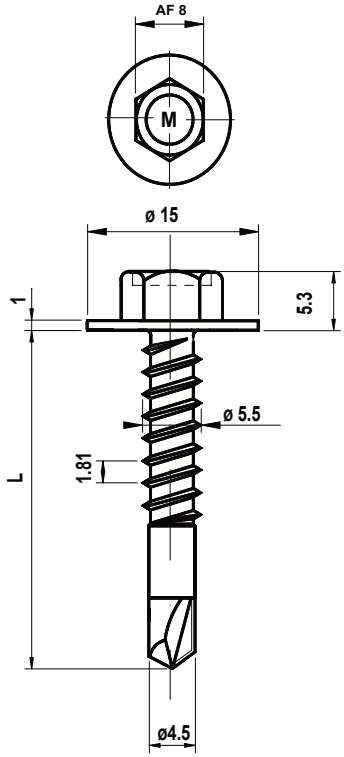
10,70 kN

Sheer breaking load F_Q in kN 

7,10 kN

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

Technical performance data sheet: 7342



PMJ-tec TOPEX 7342 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

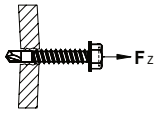
Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

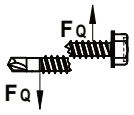
Pull-out load F_Z in N



Steel thickness	1,0	1,25	1,5	2,0	2,5	3,0
Steel S 280 GD (395 N/mm²)	1'655	2'062	2'765	4'219	6'256	
Steel S 235 (Ac 37 – 2)						8'919

Tensile breaking load Z_B in kN 

14,1 kN

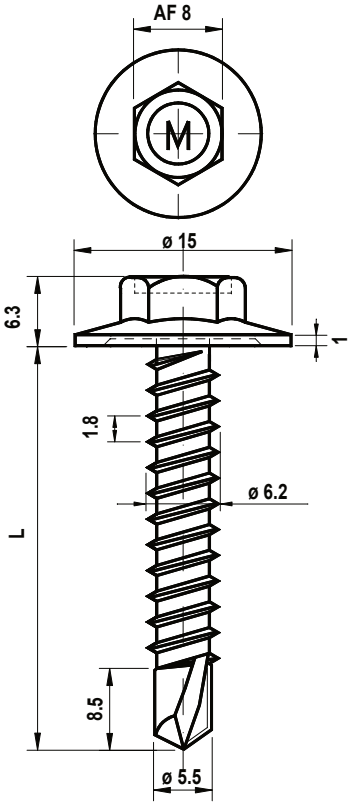
Sheer breaking load F_Q in kN 

8,36 kN

Torsional strength in Nm. 13 Nm

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

Technical performance data sheet: 7343



PMJ-tec TOPEX 7343 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

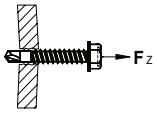
Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 6,3 mm

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

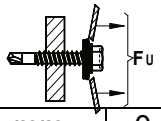
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	2,5	3,1	4,3	5,0	6,0
Steel S 280 GD (360 N/mm²)	6'275				
Steel S 235 (Ac 37 – 2)		8'155	13'508	15'332	17'320

Pull-over load F_U in N

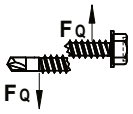


Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	0,88	1,00
Flange **15** mm.	3595	5090	5430	6440	7530	8620

Tensile breaking load Z_B in kN

17,2 kN

Sheer breaking load F_Q in kN

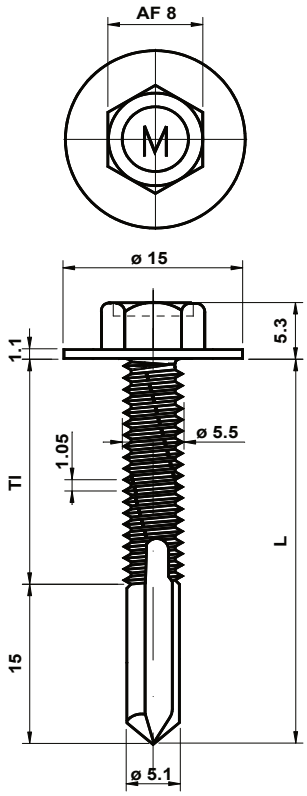


11,9 kN

Torsional strength in Nm. 20 Nm

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

Technical performance data sheet: 7344



PMJ-tec TOPEX 7344 Ø 5.5mm

Fastener Material : Hardened carbon steel AISI 1018

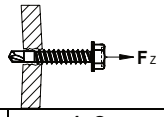
Drill Point : Hardened carbon steel. no. 5 point (drilling capacity 4,0 – 12,5 mm.)

Diameter : Ø 5,5 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

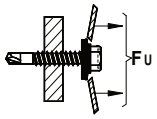
Pull-out load F_Z in N



Steel thickness in mm.	4,0	5,0	6.0	8.0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10'615	11'210	15'000*)			

*) rupture of fastener

Pull-over load F_U in N

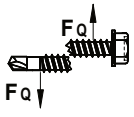


Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	0,88	1,00
Flange **15** mm.	3395	3900	4416	5540	5900	6402

Tensile breaking load Z_B in kN

14,1 kN

Sheer breaking load F_Q in kN



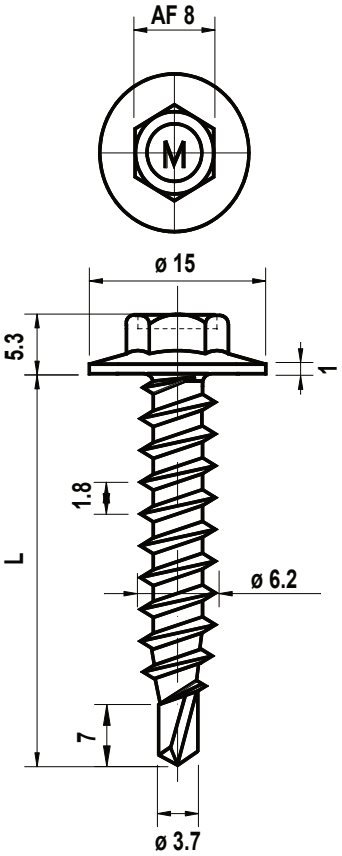
8,36 kN

Torsional strength in Nm.

16 Nm.

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

Technical performance data sheet: 7346 6,3



PMJ-tec TOPEX 7346 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

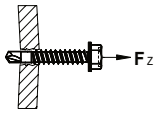
Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 6.3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N

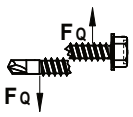


Steel thickness	0.63	0.75	1.00	1.25		
Steel S 280 GD (360 N / mm2)	1269	1718	2750	3460		

Torsional strength in Nm. 18 Nm

Tensile breaking load Z_B in kN 

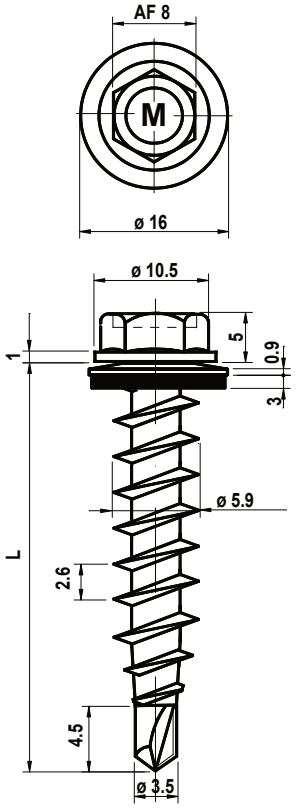
17,20 kN

Sheer breaking load F_Q in kN 

12,20 kN

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

Technical performance data sheet: 7347 6,0



PMJ-tec TOPEX 7347 Ø 6.0mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

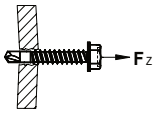
Drill Point : Hardened carbon steel. no.1 point (drilling capacity Max. 2.5 mm.)

Diameter : Ø 6.0 mm. Dia

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

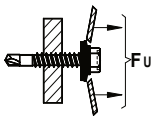
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
NEW CHANGE: Flange – head 10.5 mm instead 14 mm. 20.05.03

Pull-out load F_Z in N



Steel thickness	0.63	0.75	1.00	1.50	2.00	2.50
Steel S 280 GD (360 N / mm2)	1’076	1’401	2’336	3’847	5’887	7’401
Timber (tree) 30 mm : 4’354 N						

Pull-over load F_U in N



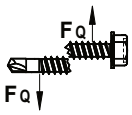
Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3210	4550	4850	5950	8620	9790
Washer dia. **19** mm. galvanized	3530	5000	5340	6540	9480	10760

Torsional strength in Nm — 12 Nm

Tensile breaking load Z_B in kN

13,34 kN

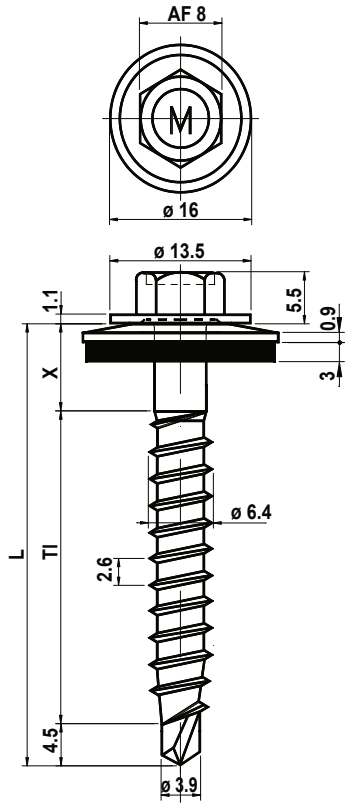
Sheer breaking load F_Q in kN



9,38 kN

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

Technical performance data sheet: 7347 6,5



PMJ-tec TOPEX 7347 Ø 6.5mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

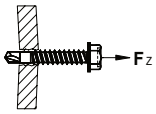
Drill Point : Hardened carbon steel. no.1 point (drilling capacity Max. 2 X 1.0 mm. to timber)

Diameter : Ø 6,5 mm. Dia

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

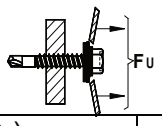
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



Steel thickness	0.63	0.75	1.00	1.25	1.50	
Steel S 280 GD (360 N / mm2)	1’143	1’154	2’170	3’126	3’932	
Timber (tree) 30 mm :	4’747 N					

Pull-over load F_U in N

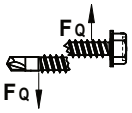


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3440	4870	5820	6870	10100	12170
Washer dia. **19** mm. galvanized	3860	5470	6120	8390	12120	14500

Torsional strength in Nm — 20 Nm

Tensile breaking load Z_B in kN 

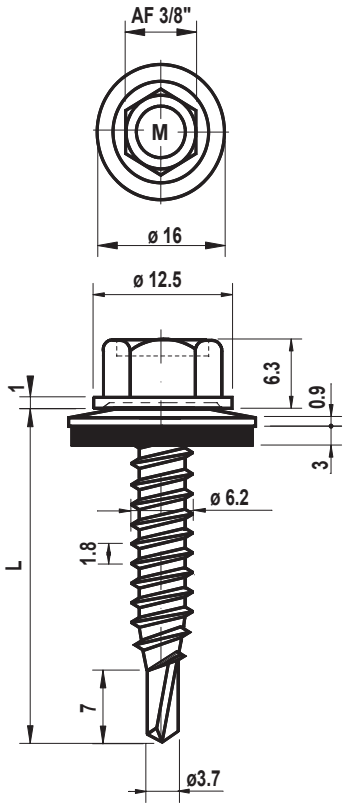
— 20 kN

Sheer breaking load F_Q in kN 

— 12,5 kN

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

Technical performance data sheet: 7349



PMJ-tec TOPEX 7349 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

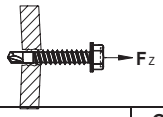
Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

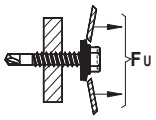
Diameter : Ø 6.3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N 

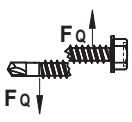
Steel thickness in mm.	0.63	0.75	1.00	1.25	2 X 1.25
Steel S 280 GD (360 N / mm2)	1269	1718	2750	3460	6973

Pull-over load F_U in N 

Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3440	4870	5820	6870	10100	12170
Washer dia. **19** mm. galvanized	3860	5470	6120	8390	12120	14500

Tensile breaking load Z_B in kN 

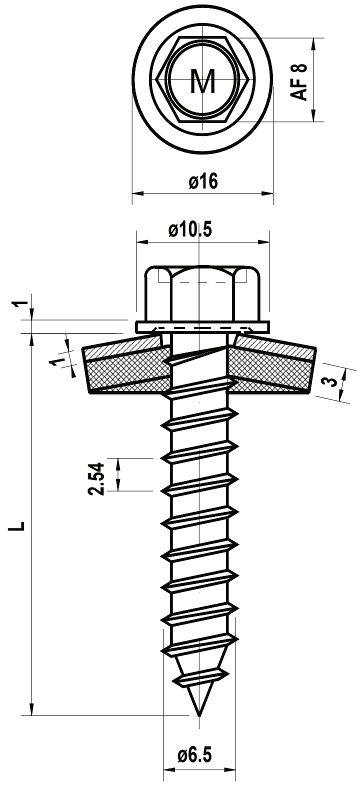
17,20 kN

Sheer breaking load F_Q in kN 

12,20 kN

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

Technical performance data sheet: 7353



PMJ-tec TOPEX 7353 Ø 6.5 mm.

Fastener Material : Hardened carbon steel AISI 1018

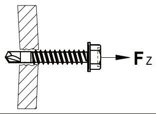
Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Point - Form A : Point TYPE A

Diameter : Ø 6,5 mm

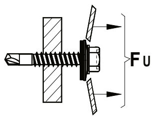
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm. (with drill hole)	0,63	0,75	1,25	1,50	2,0	3,0
Drill- bit diameters	4,00	4,00	4,50	5,00	5,00	5,70
Steel S 280 GD (DX51D)	1’148	1’588	2’917	3’562	5’537	8’271
Steel S 235 (Ac 37 – 2)						

Pull-over load F_U in N



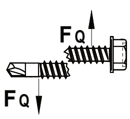
Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3210	4550	4850	5950	7530	8620
Washer dia. **19** mm. Stainless steel	3530	5000	5340	6540	8620	9760

Torsional strength in Nm: 23 Nm

Tensile breaking load Z_B in kN

20 kN

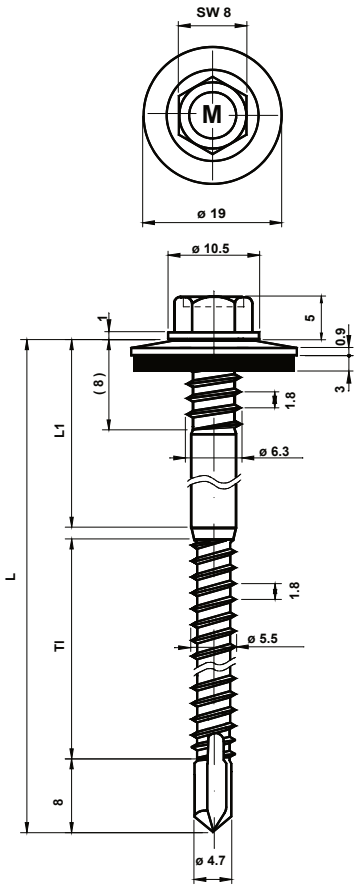
Sheer breaking load F_Q in kN



13,1 kN

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

Technical performance data sheet: 7360



PMJ-tec TOPEX HIGH – THREAD 7360

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 5,5 / 6,3 mm. Dia

Coating : Dural 250 plus

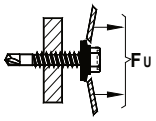
Without reference to the **PMJ-tec TOPEX** product brochure.

"All values mentioned below are ultimate failure loads and do not contain any safety factors"

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N

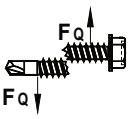
Steel thickness	1,5	2,0	3,0	4,0	5,0	6,0
Steel S 280 GD (DX51D)	2'320	3'560				
Steel S 235 (Ac 37 – 2)			8'480	11'270	13'890	16'180

Pull-over load F_U in N 

Steel S 280 GD (Dx51D)	0,40	0,50	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3210	4550	4850	5950	8620	9790
Washer dia. **19** mm. galvanized	3530	5000	5340	6540	9480	10760

Tensile breaking load Z_B in kN 

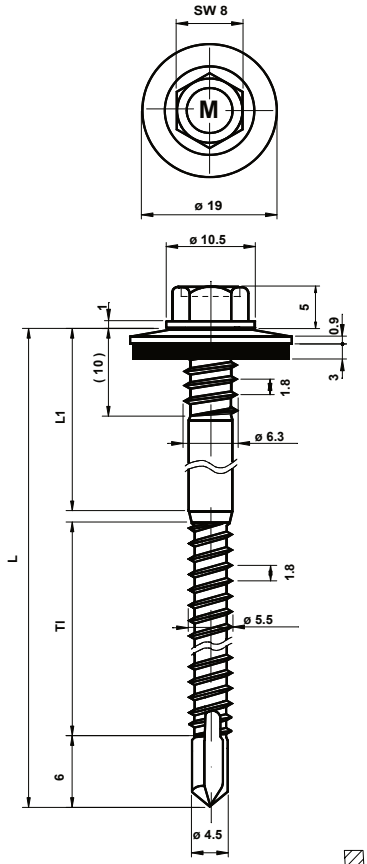
18,46 kN

Sheer breaking load F_Q in kN 

10,10 kN

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

Technical performance data sheet: 7362



PMJ-tec TOPEX 7362 Ø 5.5/6.3mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

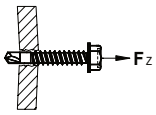
Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 / 6,3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

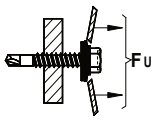
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,0	1,25	1,5	2,0	2,5	3,0
Steel S 280 GD (398 N/mm²)	1’470	2’150	2’830	3´540	4’920	
Steel S 235 (Ac 37 – 2)						8’660

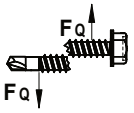
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,40	0,50	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3210	4550	4850	5950	8620	9790
Washer dia. **19** mm. galvanized	3530	5000	5340	6540	9480	10760

Tensile breaking load Z_B in kN 

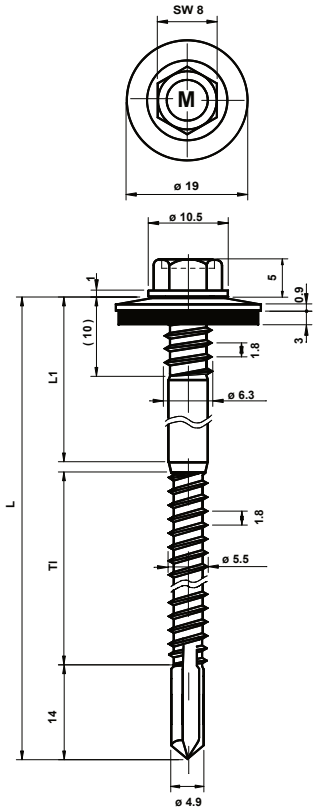
18,40 kN

Sheer breaking load F_Q in kN 

10,10 kN

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

Technical performance data sheet: 7370



PMJ-tec TOPEX 7370 Ø 5.5/6.3mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

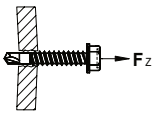
Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4,0 – 12,0 mm.)

Diameter : Ø 5,5 / 6,3 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

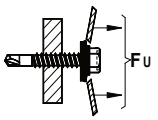
Pull-out load F_Z in N



Steel thickness	4,0	5,0	6.0	8.0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10'210	14'160	15'915	**	**	**

** rupture of fastener +17 kN !

Pull-over load F_U in N

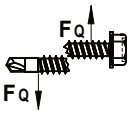


Steel S 280 GD (Dx51D)	0,40	0,50	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3210	4550	4850	5950	8620	9790
Washer dia. **19** mm. galvanized	3530	5000	5340	6540	9480	10760

Tensile breaking load Z_B in kN

17,10 kN

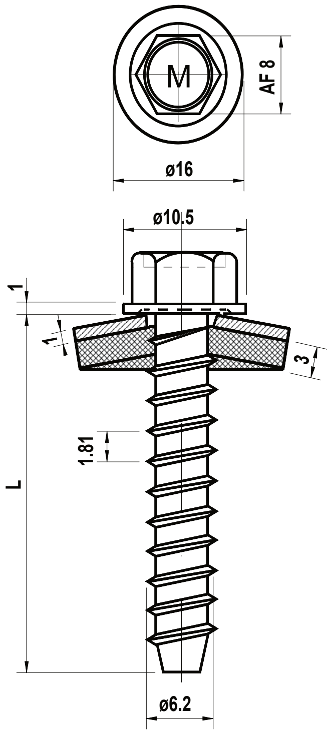
Sheer breaking load F_Q in kN



10,11 kN

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

Technical performance data sheet: 7373



PMJ-tec TOPEX 7373 Ø 6.3 mm.

Fastener Material : Hardened carbon steel AISI 1018)

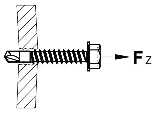
Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

Point FS - Form BZ : Point TYPE B

Diameter : Ø 6,3 mm

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

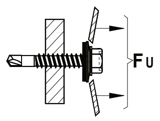
Pull-out load F_Z in N



Steel thickness in mm. (with drill hole)	1,5	2,0	3,0	4,0	6,3	8,3	12,1
Drill- bit diameters	5,00	5,30	5,30	5,30	5,50	5,70	5,70
Steel S 280 GD (DX51D)	3'456	4'495	8'016				
Steel S 235 (Ac 37 – 2)			9'316	13'062	+ 20 Kn	*	*

*) rupture of fastener from 6 mm.

Pull-over load F_U in N



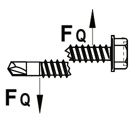
Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3210	4550	4850	5950	7530	8620
Washer dia. **19** mm. Stainless steel	3530	5000	5340	6540	8620	9760

Torsional strength in Nm: 22 Nm

Tensile breaking load Z_B in kN

20 kN

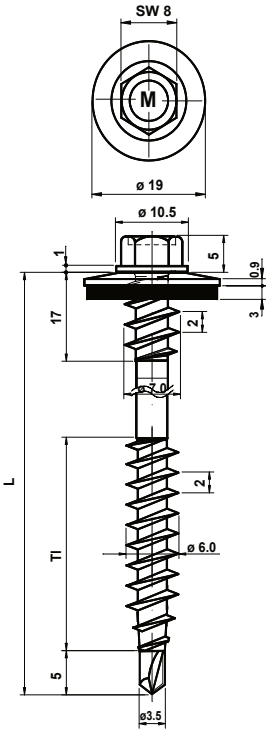
Sheer breaking load F_Q in kN



13,1 kN

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

Technical performance data sheet: 7380



PMJ-tec TOPEX 7380 Ø 6.3/7.0mm

Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Topex-sealing-washers galvanized, EPDM bonded.

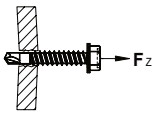
Drill Point : Hardened carbon steel. no.1 point (drilling capacity Max. 2 X 1.0 mm. to timber)

Diameter : Ø 6.0 / 7.0 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

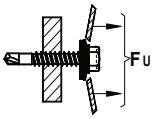
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



Steel thickness	0.63	0.75	1.00	1.25	1.50	
Steel S 280 GD (360 N / mm2)	1'103	1'154	2'170	3'126	3'932	
Timber (tree) 30 mm :	4'139 N					
Timber (tree) 40 mm :	6'080 N					

Pull-over load F_U in N



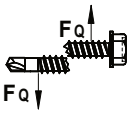
Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. galvanized	3440	4870	5820	6870	10100	12170
Washer dia. **19** mm. galvanized	3860	5470	6120	8390	12120	14500

Torsional strength in Nm — 12 Nm

Tensile breaking load Z_B in kN

13,34 kN

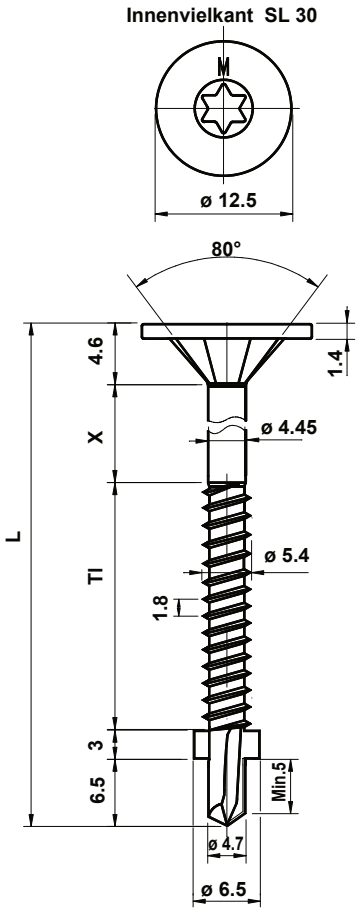
Sheer breaking load F_Q in kN



9,38 kN

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

Technical performance data sheet: 7411 5,5



PMJ-tec TOPEX 7411 Ø 5.5mm

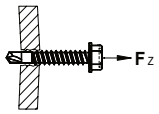
Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 5,0 mm.)

Diameter : Ø 5,5 mm. Dia

Coating : DURAL 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



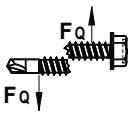
Pull-out load F_Z in N

Steel thickness	1,5	2,0	2,5	3,3	4,0	5,0
Steel S 280 GD (385 N/mm²)	2'521	4'566	5'555			
Steel S 235 (Ac 37 – 2)				7'539	11'489	15'822

Torsional strength in Nm **16 Nm**

Tensile breaking load Z_B in kN 

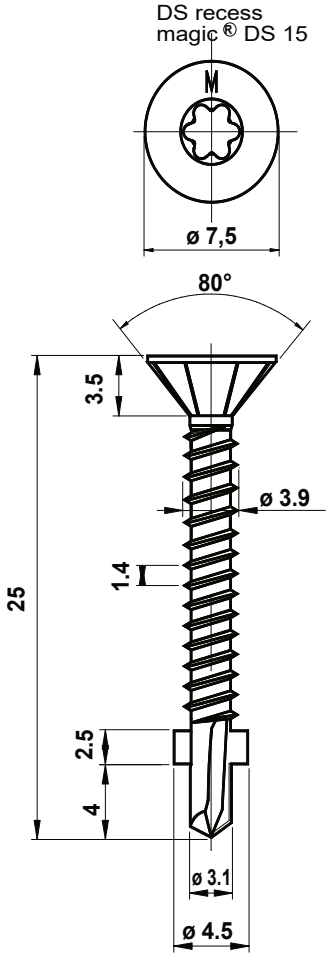
17,9 kN

Sheer breaking load F_Q in kN 

9,6 kN

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

Technical performance data sheet: 7412



PMJ-tec TOPEX 7412 Ø 3.9 mm.

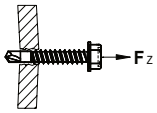
Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 0,75 – 2,5 mm.)

Diameter : Ø 3,9 mm.

Coating : Dual 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2



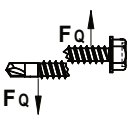
Pull-out load F_Z in **N**

Steel thickness in mm.	0,75	1,00	1,25	1,50	2,0	2,5
Steel S 280 GD (385 N/mm²)	938	1'402	2'023	2'579	3'883	5'959

Torsional strength in Nm: 5 Nm

Tensile breaking load Z_B in kN 

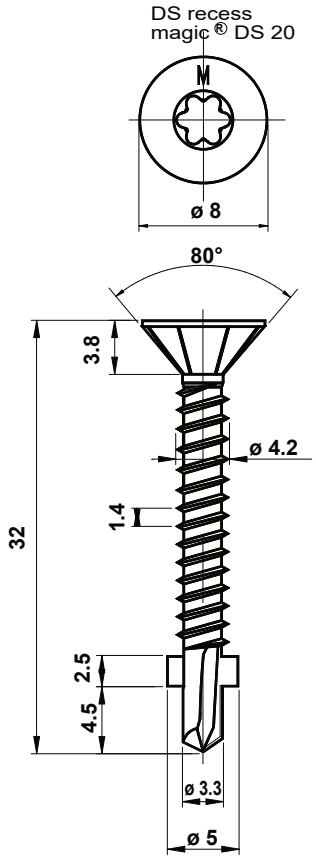
9,02 kN

Sheer breaking load F_Q in kN 

5,32 kN

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

Technical performance data sheet: 7412



PMJ-tec TOPEX 7412 Ø 4.2 mm.

Fastener Material : Hardened carbon steel AISI 1018

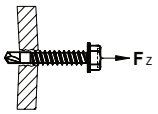
Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,25 – 3,5 mm.)

Diameter : Ø 4,2 mm.

Coating : Dual 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



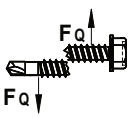
Steel thickness in mm.	1,25	1,50	2,0	2,5	3,1
Steel S 280 GD (385 N/mm²)	2'037 N	2'721 N	4'207 N	6'343 N	
Steel S 235 (Ac 37 – 2)					8'126 N

In 3 mm steel rupture of fastener

Torsional strength in Nm: 6 Nm

Tensile breaking load Z_B in kN 

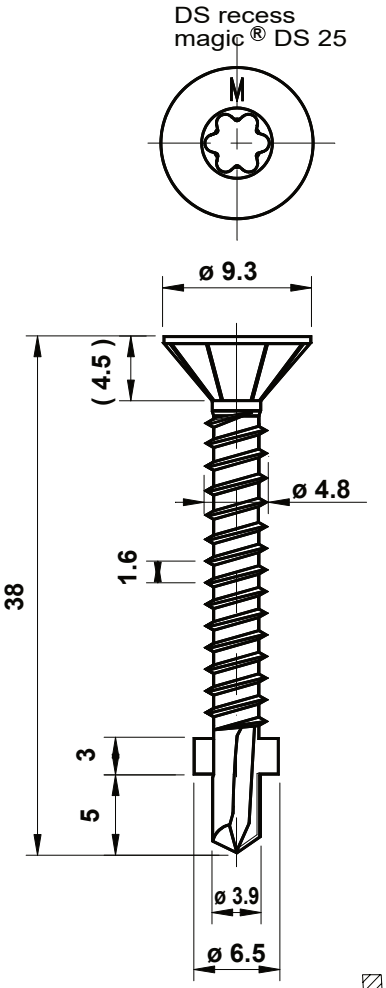
8,76 kN

Sheer breaking load F_Q in kN 

6,00 kN

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

Technical performance data sheet: 7412



PMJ-tec TOPEX 7412 Ø 4.8 mm.

Fastener Material : Hardened carbon steel AISI 1018

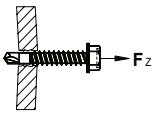
Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 4,5 mm.)

Diameter : Ø 4,8 mm.

Coating : Dural 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



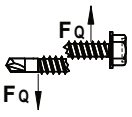
Steel thickness	1,5	2,0	2,5	3,0	4,0 *
Steel S 280 GD (385 N/mm²)	2'684	3'973	5'716		
Steel S 235 (Ac 37 – 2)				8'023	+ 10'000

*4 mm. Steel rupture of fastener !

Torsional strength in Nm **8,5 Nm**

Tensile breaking load Z_B in kN 

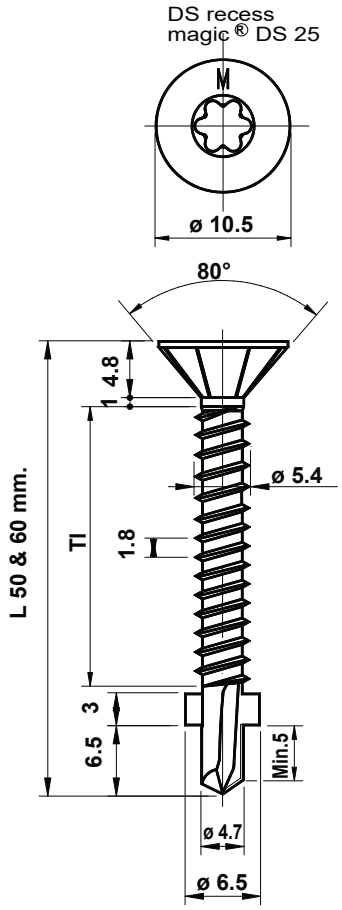
9,8 kN

Sheer breaking load F_Q in kN 

6,5 kN

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

Technical performance data sheet: 7412



PMJ-tec TOPEX 7412 Ø 5.5mm

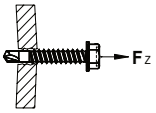
Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 5,0 mm.)

Diameter : Ø 5,5 mm.

Coating : DURAL 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



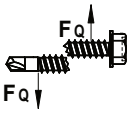
Pull-out load F_Z in N

Steel thickness	1,5	2,0	2,5	3,3	4,0	5,0
Steel S 280 GD (385 N/mm²)	2'521	4'566	5'555			
Steel S 235 (Ac 37 – 2)				7'539	11'489	15'822

Torsional strength in Nm: 15,5 Nm

Tensile breaking load Z_B in kN 

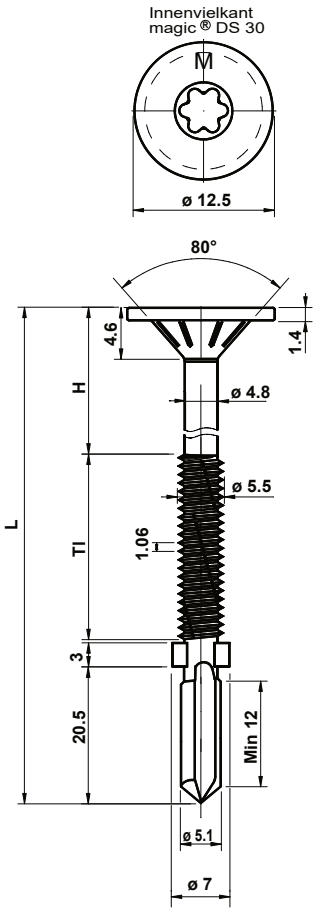
17,9 kN

Sheer breaking load F_Q in kN 

9,6 kN

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

Technical performance data sheet: 7415



PMJ-tec TOPEX 7415 Ø 5.5mm

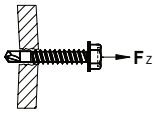
Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4,0 – 12,5 mm.)

Diameter : Ø 5,5 mm.

Coating : Dual 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

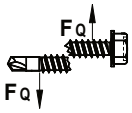
Steel thickness	4,0	5,0	6,0	8,0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10'642**	-	-	-	-	-

** rupture of fastener at 10,4 kN !

Torsional strength in Nm: 15 Nm

Tensile breaking load Z_B in kN 

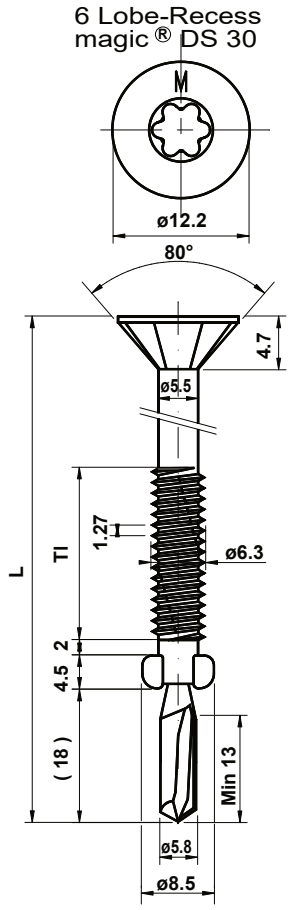
10,4 kN

Sheer breaking load F_Q in kN 

9,0 kN

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

Technical performance data sheet: 7425



PMJ-tec TOPEX 7425 Ø 6.3mm

Fastener Material : Hardened carbon steel AISI 1018

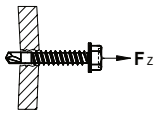
Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4,0 – 12,5 mm.)

Diameter : Ø 6,3 mm.

Coating : Dual 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N

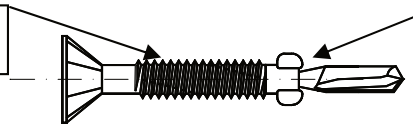


Steel thickness	4,0	5,0	6,0	8,0	10,0	12,0
Steel S 235 (Ac 37 – 2)	13'178	16'816**	-	-	-	-

** rupture of fastener at 16,8 kN !

Torsional strength in Nm

21 Nm

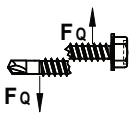


8,5 Nm

Tensile breaking load Z_B in kN

16,9 kN

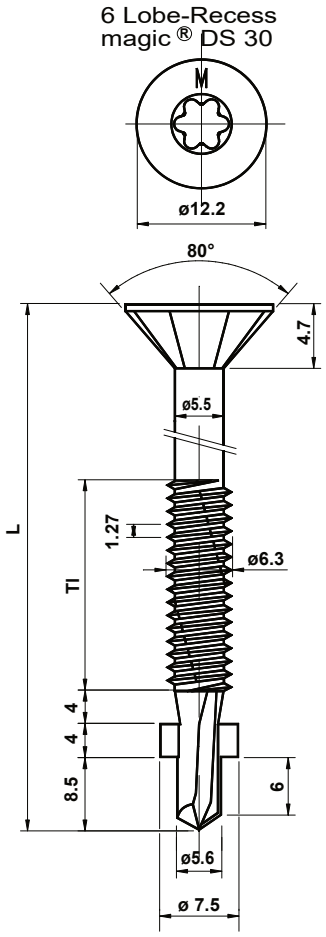
Sheer breaking load F_Q in kN



13,3 kN

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

Technical performance data sheet: 7426



PMJ-tec TOPEX 7426 Ø 6.3mm

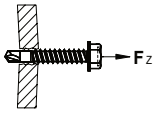
Fastener Material : Hardened carbon steel AISI 1018

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 6,3 mm.

Coating : Dual 250 plus (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

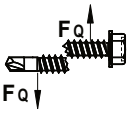
Steel thickness	1,5	2,0	3,3	4,0	5,0
Steel S 280 GD (385 N/mm²)	3'117	5'656			
Steel S 235 (Ac 37 – 2)			10'308	14'710	* + 16.5 Kn

* rupture of fastener at 16,5 kN !

Torsional strength in Nm **21 Nm** (Point :13 Nm.)

Tensile breaking load Z_B in kN 

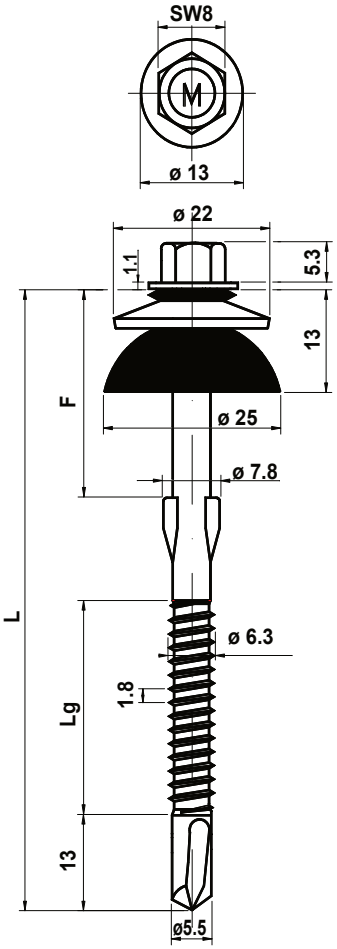
16,5 kN

Sheer breaking load F_Q in kN 

13,2 kN

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

Technical performance data sheet: 7441



PMJ-tec TOPEX 7441 Ø 6.3 mm.

Fastener Material : Hardened carbon steel AISI 1018

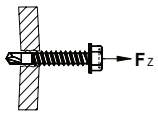
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 6,3 mm.

Coating : Dural 1000h (Tested SST – DIN 50021 SS)

Pull-out load F_Z in N

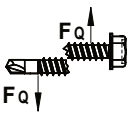


Steel thickness in mm.	2,5	3,1	4,3	5,0	6,0
Steel S 280 GD (360 N/mm²)	6’275				
Steel S 235 (Ac 37 – 2)		8’155	13’508	15’332	17’320

Torsional strength in Nm 18 Nm

Tensile breaking load Z_B in kN 

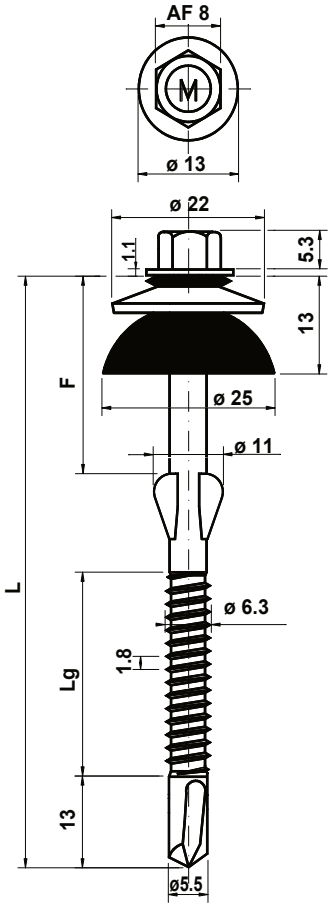
17,2 kN

Sheer breaking load F_Q in kN 

11,9 kN

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

Technical performance data sheet: 7442



PMJ-tec TOPEX 7442 Ø 6.3 mm.

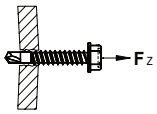
Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 6,3 mm.

Coating : Dural 1000h (Tested SST – DIN 50021 SS)



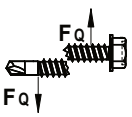
Pull-out load F_Z in N

Steel thickness in mm.	2,5	3,1	4,3	5,0	6,0
Steel S 280 GD (360 N/mm²)	6'275				
Steel S 235 (Ac 37 – 2)		8'155	13'508	15'332	17'320

Torsional strength in Nm 16 Nm

Tensile breaking load Z_B in kN 

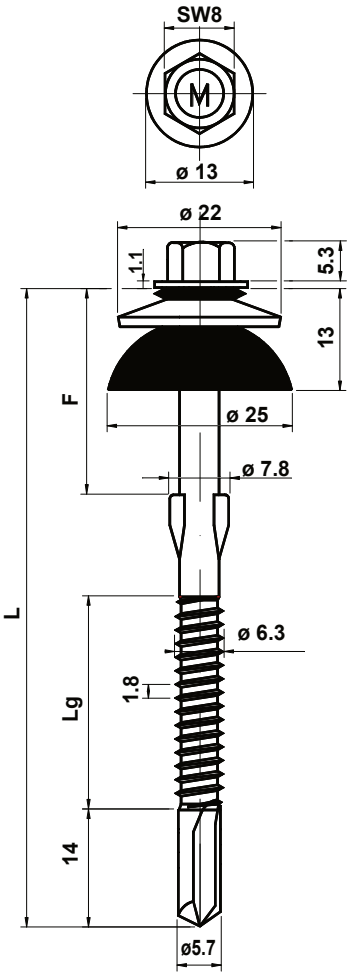
17,2 kN

Sheer breaking load F_Q in kN 

11,9 kN

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

Technical performance data sheet: 7451



PMJ-tec TOPEX 7451 Ø 6.3 mm.

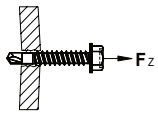
Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4,0 – 12,5 mm.)

Diameter : Ø 6,3 mm.

Coating : Dural 1000h (Tested SST – DIN 50021 SS)



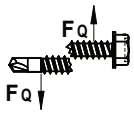
Pull-out load F_Z in N

Steel thickness in mm.	4,2	5,0	6,0	8,0	10,0
Steel S 280 GD (360 N/mm²)					
Steel S 235 (Ac 37 – 2)	11’716	15’927	18’508	-	-

Torsional strength in Nm 19 Nm

Tensile breaking load Z_B in kN 

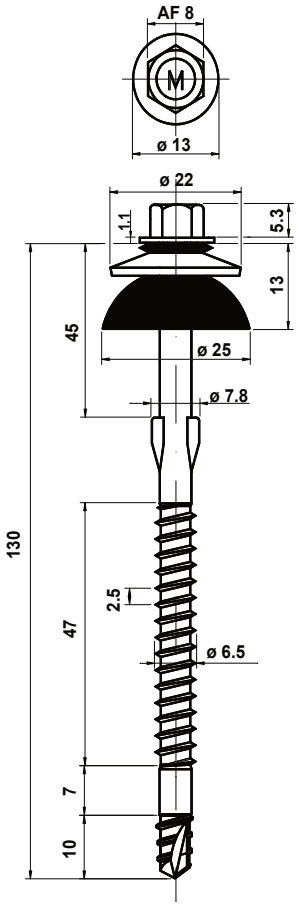
18,6 kN

Sheer breaking load F_Q in kN 

12,7 kN

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

Technical performance data sheet: 7456



PMJ-tec TOPEX 7456 Ø 6.5mm

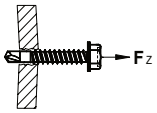
Fastener Material : Hardened carbon steel AISI 1018

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. With special drill-point (drilling capacity: timber.)

Diameter : Ø 6,5 mm.

Coating : Dural 1000h (Tested SST – DIN 50021 SS)



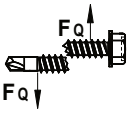
Pull-out load F_Z in N

Timber (tree)	Min. 6'168 Max 8'092 7'107 N R 1'924 N

Torsional strength in Nm | 19 Nm

Tensile breaking load Z_B in kN 

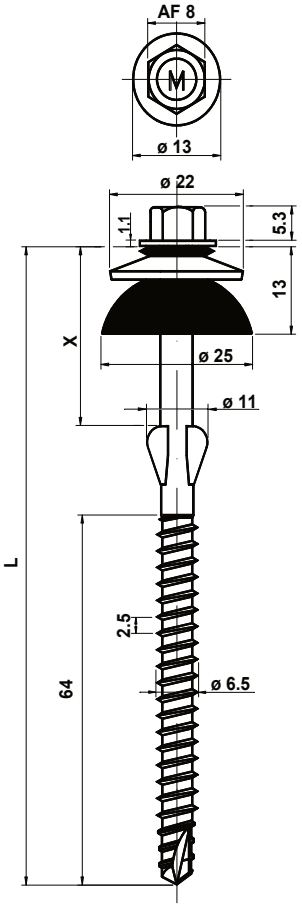
| 20 kN

Sheer breaking load F_Q in kN 

| 13,1 kN

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

Technical performance data sheet: 7457



PMJ-tec TOPEX 7457 Ø 6.5mm

Fastener Material : Hardened carbon steel AISI 1018

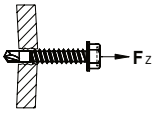
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. with special drill-point (drilling capacity: timber.)

Diameter : Ø 6,5 mm.

Coating : Dural 1000h (Tested SST – DIN 50021 SS)

Pull-out load F_Z in N

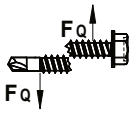


Timber (tree)	Min. 6'758 Max 8'276 7'615 N R 1'518 N

Torsional strength in Nm — 15 Nm (180 mm.12 Nm.)

Tensile breaking load Z_B in kN 

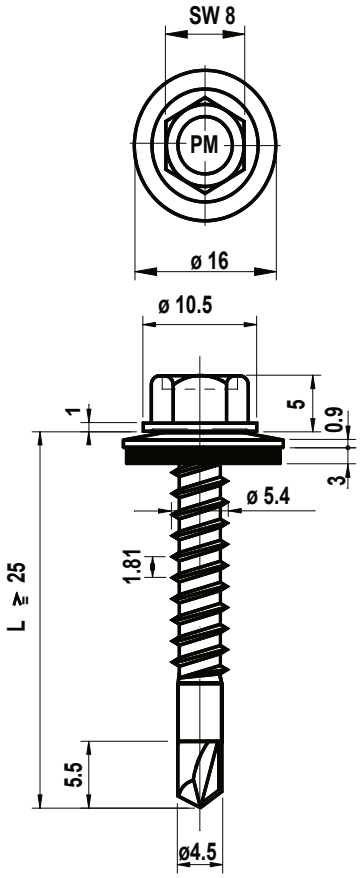
— 20 kN (180 mm. 13kN)

Sheer breaking load F_Q in kN 

— 12,6 kN (180 mm. 8,1

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

Technical performance data sheet: 7510



PMJ-tec TOPEX PIASTA 7510 Ø 5.5mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

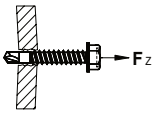
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 mm.

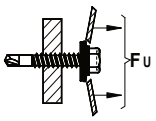
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,2	1,5	2,0	2,5	3,0	3,5
Steel S 280 GD (395 N/mm²)	1600	2020	3040	4200	5270	6000
Steel S 235 (Ac 37 – 2)						

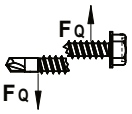
Pull-over load F_U in N



Steel (340 N / mm^2)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

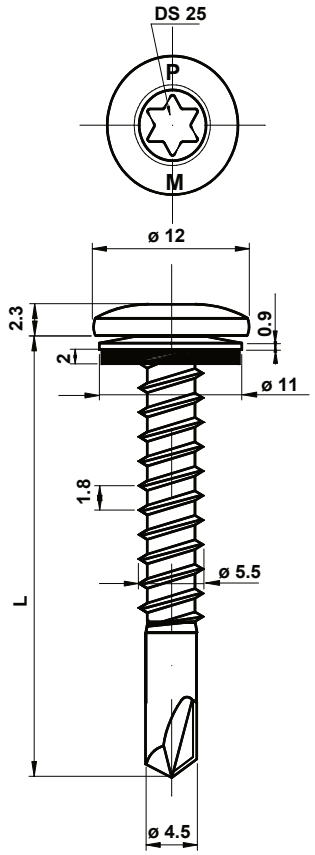
10,2 kN

Sheer breaking load F_Q in kN 

8,35 kN

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

Technical performance data sheet: 7515



PMJ-tec TOPEX PIASTA 7515 Ø 5.5mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

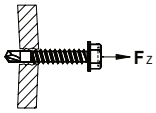
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2 – 3,5 mm.)

Diameter : Ø 5,5 mm

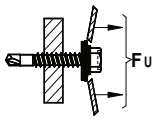
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,2	1,5	2,0	2,5	3,0	3,5
Steel S 280 GD (395 N/mm²)	1600	2020	3040	4200	5270	6000
Steel S 235 (Ac 37 – 2)						

Pull-over load F_U in N

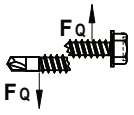


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **11** mm. Stainless steel	3380	4750	6160	6540	7530	8620

Tensile breaking load Z_B in kN

10,20 kN

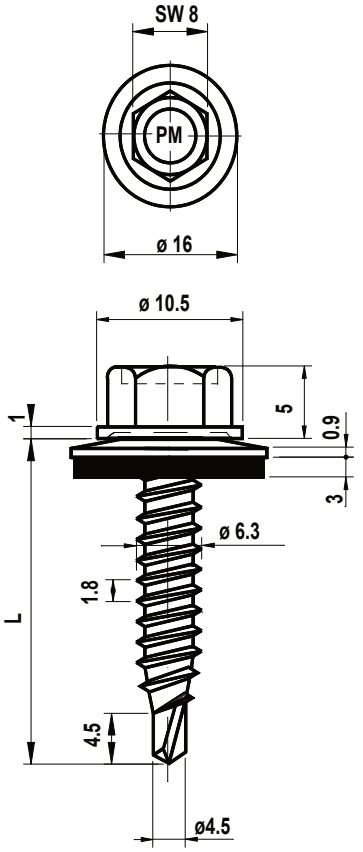
Sheer breaking load F_Q in kN



8,35 kN

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

Technical performance data sheet: 7516



PMJ-tec TOPEX PIASTA 7516 Ø 6.3mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

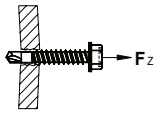
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 1.2 – 2.0 mm.)

Diameter : Ø 6,3 mm.

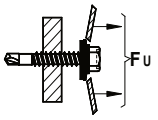
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1.25	1.5	2.00			
Steel S 280 GD (390 N / mm²)	3250	3400	5580			

Pull-over load F_U in N

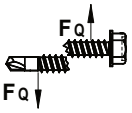


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3440	4050	4240	5120	6000	7200
Washer dia. **19** mm. Stainless steel	3860	5470	6120	8390	10255	12120

Tensile breaking load Z_B in kN

10,3 kN

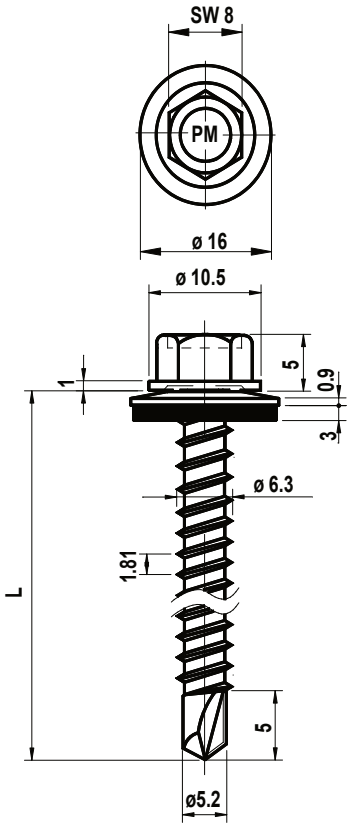
Sheer breaking load F_Q in kN



8,2 kN

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

Technical performance data sheet: 7517



PMJ-tec TOPEX PIASTA 7517 Ø 6.3mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

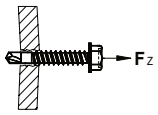
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1.2 – 3.5 mm.)

Diameter : Ø 6,3 mm.

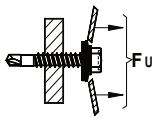
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,25	1,5	2,0	2,5	3,0	3,5
Steel S 280 GD (395 N/mm²)	2450	2780	4380			

Pull-over load F_U in N

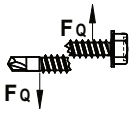


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3440	4050	4240	5120	6000	7200
Washer dia. **19** mm. Stainless steel	3860	5470	4520	8390	10250	12120

Tensile breaking load Z_B in kN

10,3 kN

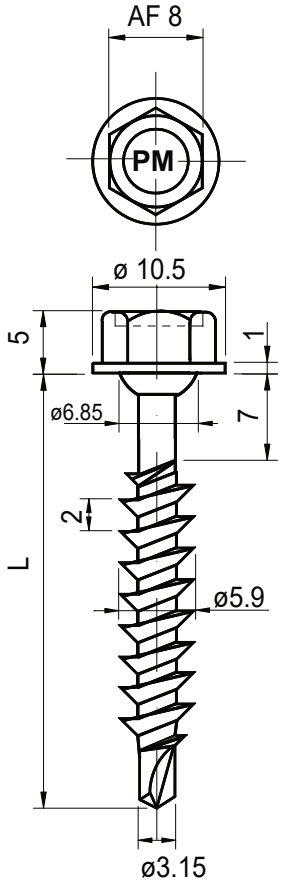
Sheer breaking load F_Q in kN



8,2 kN

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

Technical performance data sheet: 7518



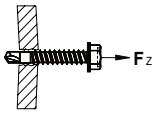
PMJ-tec TOPEX PIASTA 7518 Ø 6.0mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 0.63 – 2 X 1.0 mm.)

Diameter : Ø 6,0 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2



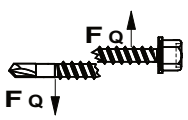
Pull-out load F_Z in N

Steel thickness	0,75	2X0.75	1.0	2X1.0	1.25 +0.62	1.50 +0.62
Steel S 280 GD (390 N/mm²)	1660	3010	2240	4340	2850	4010

Torsional strength in Nm: 8,5 Nm

Tensile breaking load Z_B in kN 

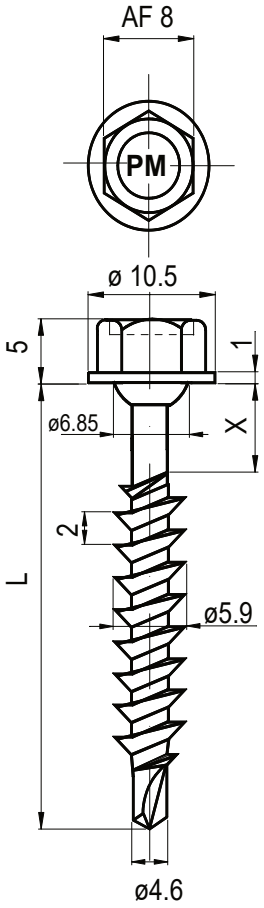
10,21 kN

Sheer breaking load F_Q in kN 

8,28 kN

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

Technical performance data sheet: 7519



PMJ-tec TOPEX PIASTA 7519 Ø 6.0mm

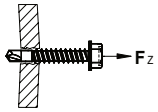
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1.25 – 3.2 mm.)

Diameter : Ø 6,0 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



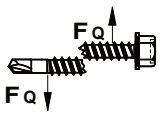
Steel thickness	1.25	1.50	2.00	2.50	3.2	
Steel S 280 GD (390 N/mm²)	2950	3430	5320	7440	10840	

Torsional strength in Nm: 10,5 Nm

Tensile breaking load Z_B in kN

10,95 kN

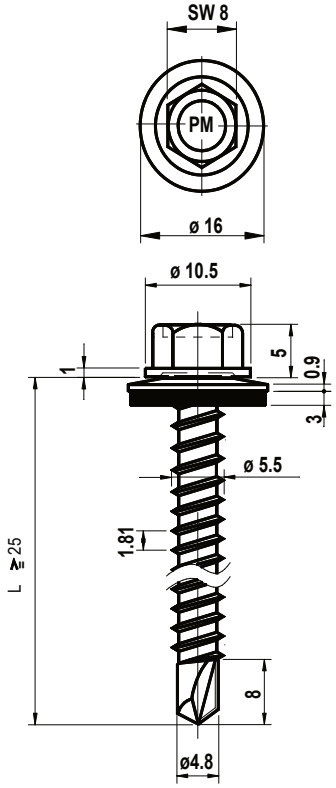
Sheer breaking load F_Q in kN



8,24 kN

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

Technical performance data sheet: 7520



PMJ-tec TOPEX PIASTA 7520 Ø 5.5mm

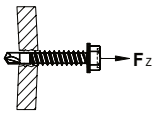
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 5,5 mm

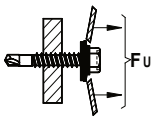
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

Steel thickness	1,2	1,5	2,0	2,5	3,0	4,0
Steel S 280 GD (DX51D)	n.r.	2020	2730	3790	4760	7520
Steel S 235 (Ac 37 – 2)						

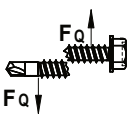
n.r. = not recommended

Pull-over load F_U in N 

Steel 340 N/mm²	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3550	5020	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

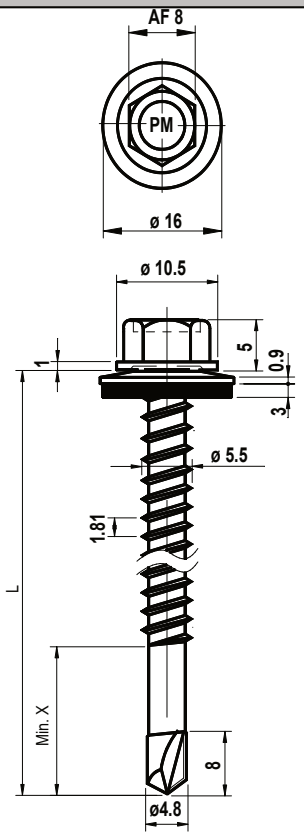
10,20 kN

Sheer breaking load F_Q in kN 

8,35 kN

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

Technical performance data sheet: 7521



PMJ-tec TOPEX PIASTA 7521 Ø 5.5mm

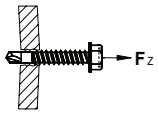
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 5,5 mm

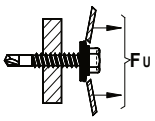
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

Steel thickness	1,2	1,5	2,0	2,5	3,0	4,0
Steel S 280 GD (DX51D)	n.r.	2020	2730	3790	4760	7520
Steel S 235 (Ac 37 – 2)						

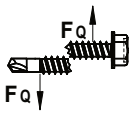
n.r. = not recommended

Pull-over load F_U in N 

Steel 340 N/mm²	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3550	5020	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

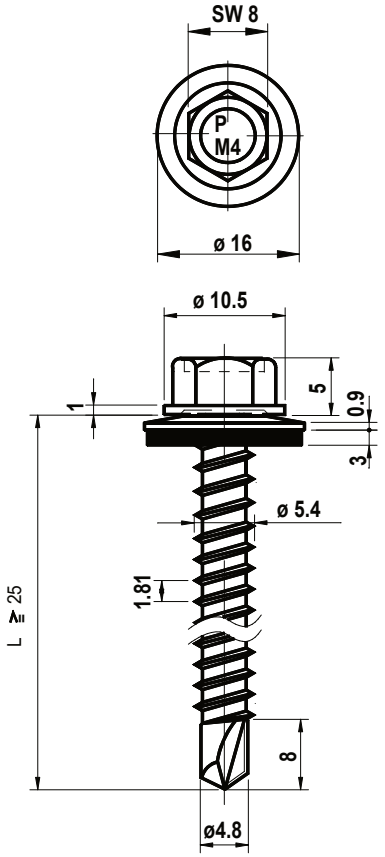
10,20 kN

Sheer breaking load F_Q in kN 

8,35 kN

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

Technical performance data sheet: 7524



PMJ-tec TOPEX PIASTA 7524 Ø 5.5mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A4 (316 grade)

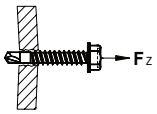
Washer Material: Stainless Steel A4 (316 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : Ø 5,5 mm

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

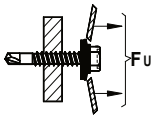
Pull-out load F_Z in N



Steel thickness	1,2	1,5	2,0	2,5	3,0	4,0
Steel S 280 GD (DX51D)	n.r.	n.r	2730	3790	4760	7520
Steel S 235 (Ac 37 – 2)						

n.r. = not recommended

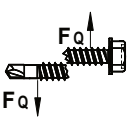
Pull-over load F_U in N



Steel 340 N/mm²	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless A2	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless A2	3550	5020	5640	7720	9020	10200

Tensile breaking load Z_B in kN 

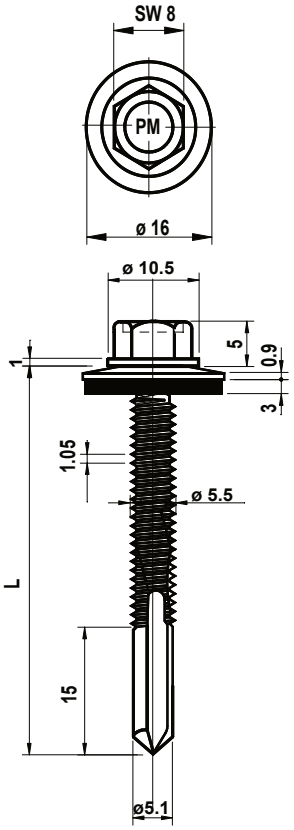
10,20 kN

Sheer breaking load F_Q in kN 

8,35 kN

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

Technical performance data sheet: 7530



PMJ-tec TOPEX PIASTA 7530 Ø 5.5mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

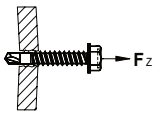
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4.0 – 12,5 mm.)

Diameter : Ø 5,5 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

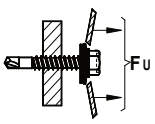
Pull-out load F_Z in N



Steel thickness	4,0	5,0	6.0	8.0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10.700	11.650	12.720*			

* rupture of fastener

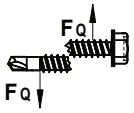
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3590	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5630	7720	9020	11100

Tensile breaking load Z_B in kN 

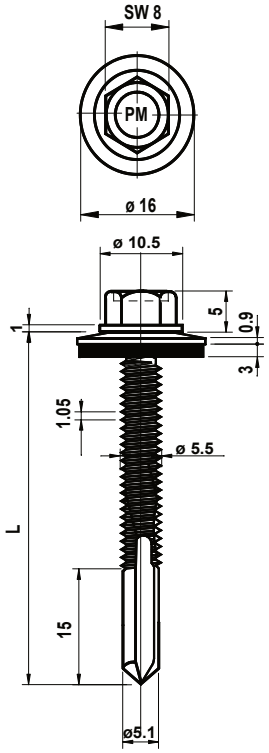
10,2 kN

Sheer breaking load F_Q in kN 

8,35 kN

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

Technical performance data sheet: 7534



PMJ-tec TOPEX PIASTA 7534 Ø 5.5mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A4 (316 grade)

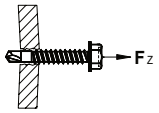
Washer Material : Stainless Steel A4 (316 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4.0 – 12,5 mm.)

Diameter : Ø 5,5 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

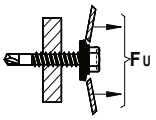
Pull-out load F_Z in N



Steel thickness	4,0	5,0	6.0	8.0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10.700	11.650	12.720*			

* rupture of fastener

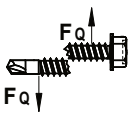
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3590	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5630	7720	9020	11100

Tensile breaking load Z_B in kN 

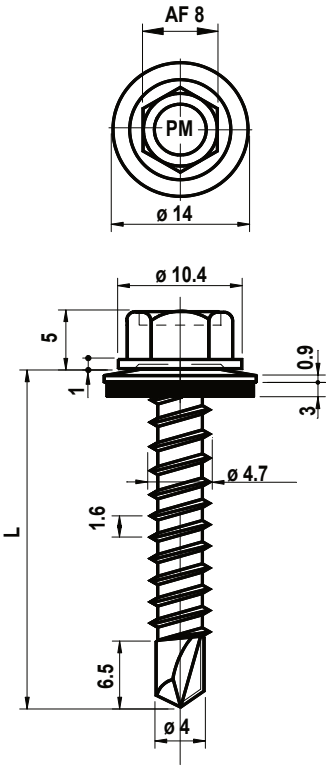
10,2 kN

Sheer breaking load F_Q in kN 

8,35 kN

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

Technical performance data sheet: 7540 4,8



PMJ-tec TOPEX PIASTA 7540 Ø 4.8mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

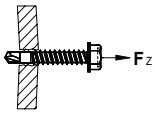
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity max. 4,5 mm.)

Diameter : Ø 4,8 mm.

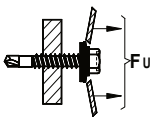
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1.25	1.50	2.0	2.5	3.0	4.0
Steel S 280 GD (395 N/mm²)	1’916	2’462	4’039	5’043		
Steel S 235 (Ac 37 – 2)					6’334	8’783

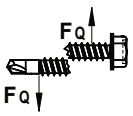
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **14** mm. Stainless steel	1’980	3’080	4’129	5’142	6’320	8’289
Washer dia. **16** mm. Stainless steel	2’380	3’590	4’554	5’607	6’530	8’333

Tensile breaking load Z_B in kN 

8,68 kN

Sheer breaking load F_Q in kN 

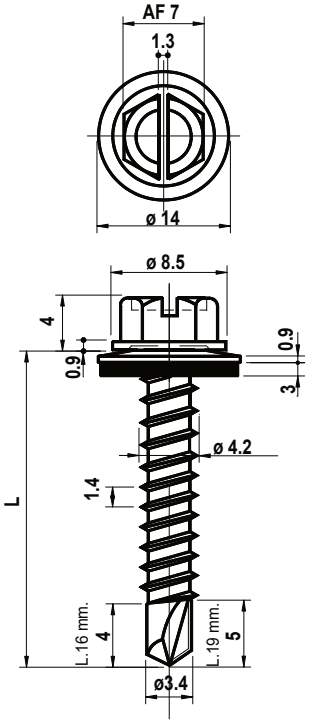
6,04 kN

Torsional strength in Nm 6,5 Nm

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

Technical performance data sheet: 7541 4,2

Head according to DIN 7504 Form "L"



PMJ-tec TOPEX PIASTA 7541 Ø 4.2mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

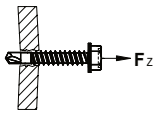
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 16 mm > max. 2,5 mm. 19 mm > max. 3,2 mm.)

Diameter : Ø 4,2 mm.

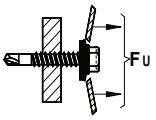
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1.25	1.50	2.0	2.5	3.0	
Steel S 280 GD (395 N/mm²)	1’906	2’448	4’156	5’103		
Steel S 235 (Ac 37 – 2)					6’354	

Pull-over load F_U in N

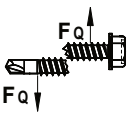


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **14** mm. Stainless steel	1’880	2’897	3’989	5’030	6’120	-

Tensile breaking load Z_B in kN

6,11 kN

Sheer breaking load F_Q in kN

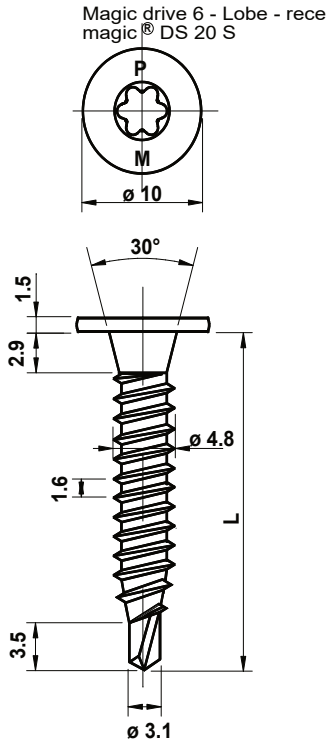


5,39 kN

Torsional strength in Nm 4,2 Nm.

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

Technical performance data sheet: 7547



PMJ-tec TOPEX PIASTA 7547 Ø 4.8 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

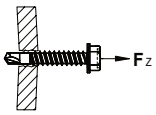
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 4,8 mm.

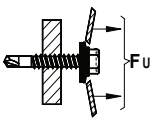
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	0.63	0.75	1.00	1.25		
Steel S 280 GD (DX51D)	740	1000	1520	2160		

Pull-over load F_U in N



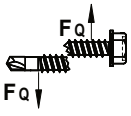
Steel S 280 GD (Dx51D)						

Torsional strength in Nm — 6 Nm.

Tensile breaking load Z_B in kN

9,00 kN

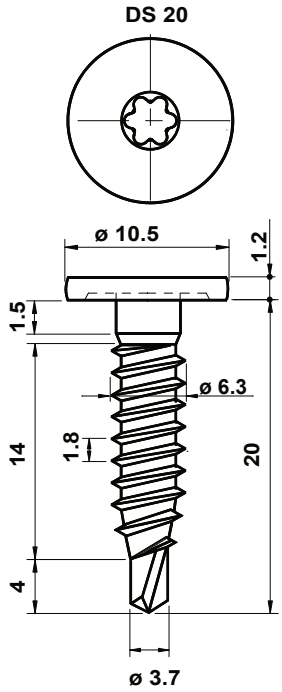
Sheer breaking load F_Q in kN



7,40 kN

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

Technical performance data sheet: 7548



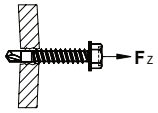
PMJ-tec TOPEX 7548 Ø 6.3 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

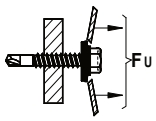
Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 0.62 – 1,0 mm. or 2 mm. Alu)

Diameter : Ø 6,3 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N 

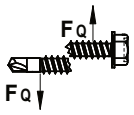
Steel thickness	0.50	0.63	0.75	0.88	1.00	
Steel S 280 GD (360 N/mm²)		1190	1582		2631	

Pull-over load F_U in N 

Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
No washer		3635	4017	5260		6506

Tensile breaking load Z_B in kN 

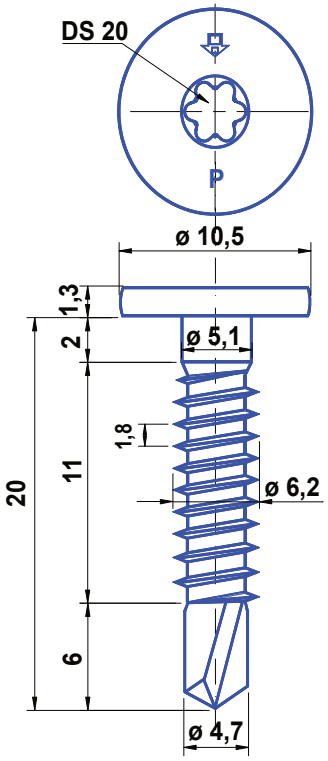
10 kN

Sheer breaking load F_Q in kN 

8,2 kN

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

Technical performance data sheet: 7549

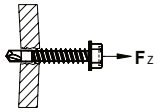


PMJ-tec TOPEX STAINLESS STEEL7549 Ø 6.3 mm.

Fastener Material : Screws fully Stainless Steel A2
(AISI 304 – 1.4301)

Drill Point : Stainless Steel A2 no.2 point (drilling capacity Max. 3.5 mm. Aluminium)

Diameter : Ø 6,3 mm.

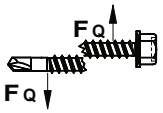
Pull-out load F_Z in N 

Aluminium thickness in mm.	1,0	1,2	1,5	2,0	3,0
Values in N	894	1’06	1’491	3’638	4’904

Torsional strength in Nm | 9 Nm |

Tensile breaking load Z_B in kN 

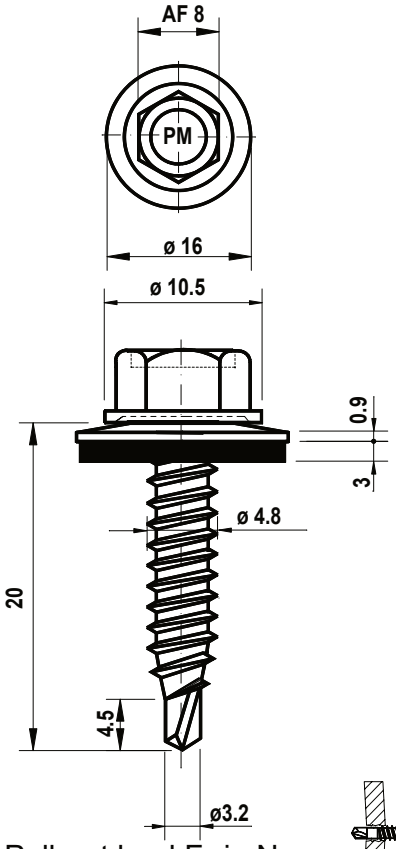
8,13 kN

Sheer breaking load F_Q in kN 

7,26 kN

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

Technical performance data sheet: 7550



PMJ-tec TOPEX PIASTA 7550 Ø 4.8 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

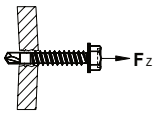
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded, 3 mm. thickness.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 4,8 mm.

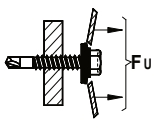
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (DX51D)	740	1000	1520	2160	5'270

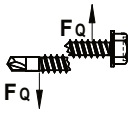
Pull-over load F_U in N



Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

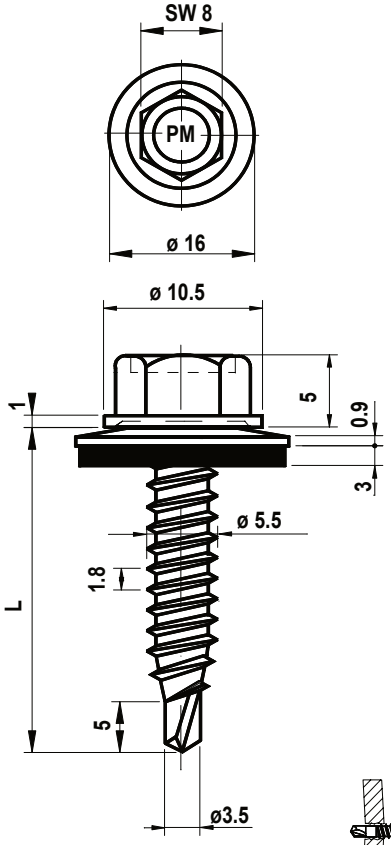
9,00 kN

Sheer breaking load F_Q in kN 

7,40 kN

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

Technical performance data sheet: 7550



PMJ-tec TOPEX PIASTA 7550 Ø 5.5 mm.

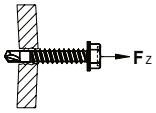
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 5,5 mm

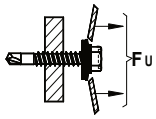
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 0,75	2 x 1.25
Steel S 280 GD (DX51D)	990	1300	2170	2500	2300	5738

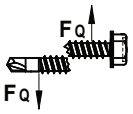
Pull-over load F_U in N



Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

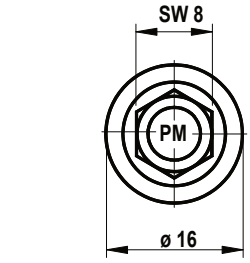
10.2 kN

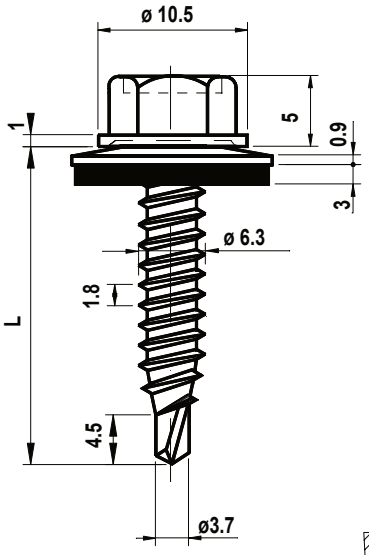
Sheer breaking load F_Q in kN 

7,7 kN

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

Technical performance data sheet: 7550





PMJ-tec TOPEX PIASTA 7550 Ø 6.3 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

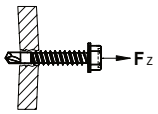
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 6,3 mm

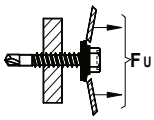
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (360 N/mm²)	1140	1030	1580	2270	7229

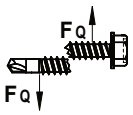
Pull-over load F_U in N



Steel S 280 GD (Dx51D) in mm	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	4050	4240	5120	6000	7200
Washer dia. **19** mm. Stainless steel	3950	5600	5500	7650	8070	11000

Tensile breaking load Z_B in kN 

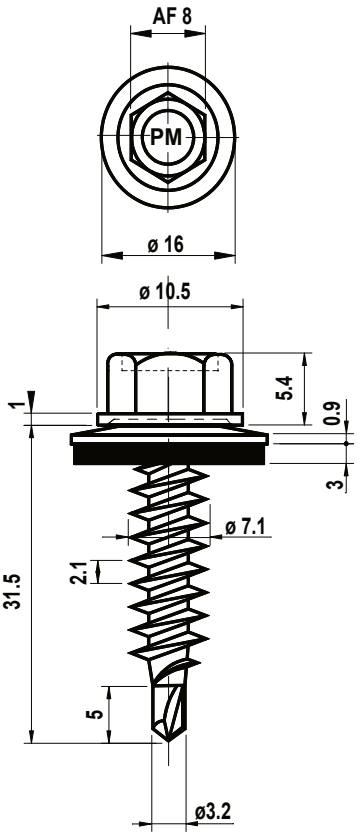
10,00 kN

Sheer breaking load F_Q in kN 

8,20 kN

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

Technical performance data sheet: 7550 7,2



PMJ-tec TOPEX PIASTA 7550 Ø 7.2 mm

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

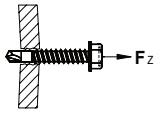
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm. Max.)

Diameter : Ø 7.2 mm.

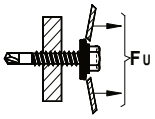
REMARKS:

Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2



Pull-out load F_Z in N

Steel thickness in mm.	0.63	0.75	1.00	1.25		
Steel S 280 GD (360 N / mm2)	1’746	1’956	2’875	3’599		

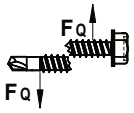
Pull-over load F_U in N 

Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	1,00	1,25
Washer dia. **16** mm. Stainless Steel	2880	4110	4465	6174	8455	9585

Torsional strength in Nm | 12,0 Nm |

Tensile breaking load Z_B in kN 

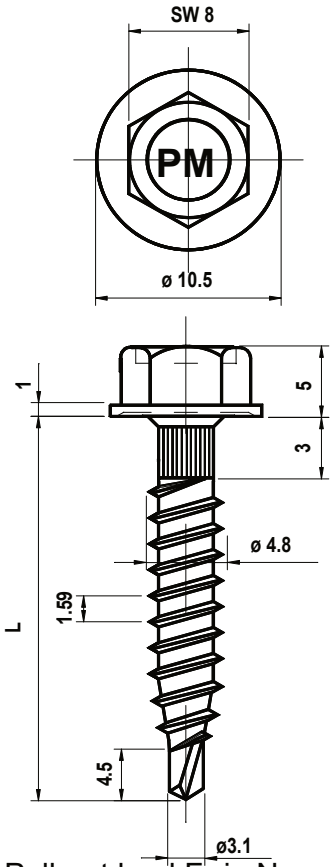
12,81 kN

Sheer breaking load F_Q in kN 

9,11 kN

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

Technical performance data sheet: 7553 4,8



PMJ-tec TOPEX PIASTA Stitching 7553

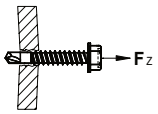
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 4,8 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

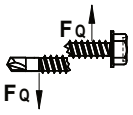
Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (DX51D)	740	1000	1520	2160	5270

Tensile breaking load Z_B in kN 

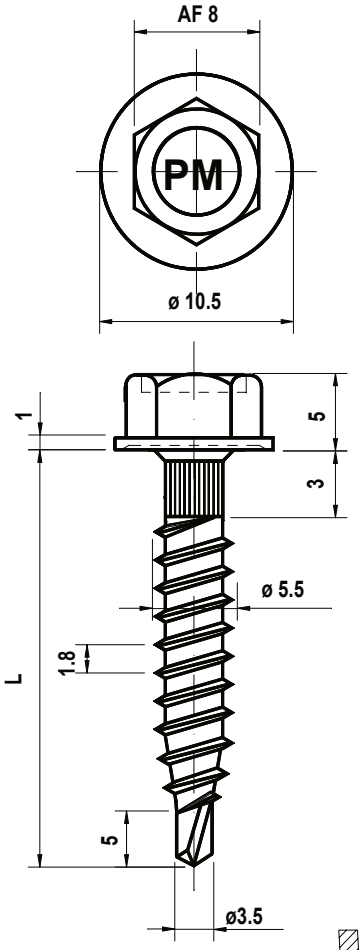
9,00 kN

Sheer breaking load F_Q in kN 

7,64 kN

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

Technical performance data sheet: 7553



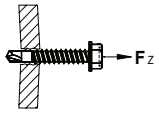
PMJ-tec TOPEX PIASTA 7553 Ø 5.5 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 5,5 mm

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

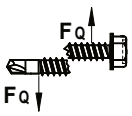


Pull-out load F_Z in N

Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 0,75	2 x 1.25
Steel S 280 GD (DX51D)	990	1300	2170	2500	2300	5738

Tensile breaking load Z_B in kN 

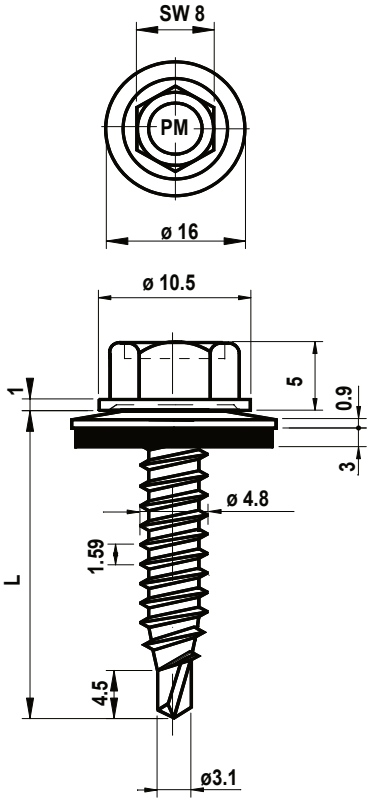
10,20 kN

Sheer breaking load F_Q in kN 

7,70 kN

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

Technical performance data sheet: 7554



PMJ-tec TOPEX PIASTA 7554 Ø 4.8 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A4 (316 grade)

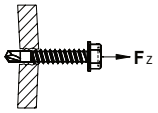
Washer Material : Stainless Steel A4 (316 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 2 X 1.25 mm.)

Diameter : Ø 4,8 mm.

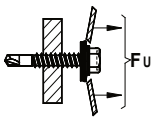
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness in mm.	0.63	0.75	1.00	1.25	2 x 1.25
Steel S 280 GD (DX51D)	740	1'000	1'520	2'160	5'120

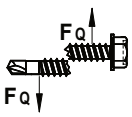
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

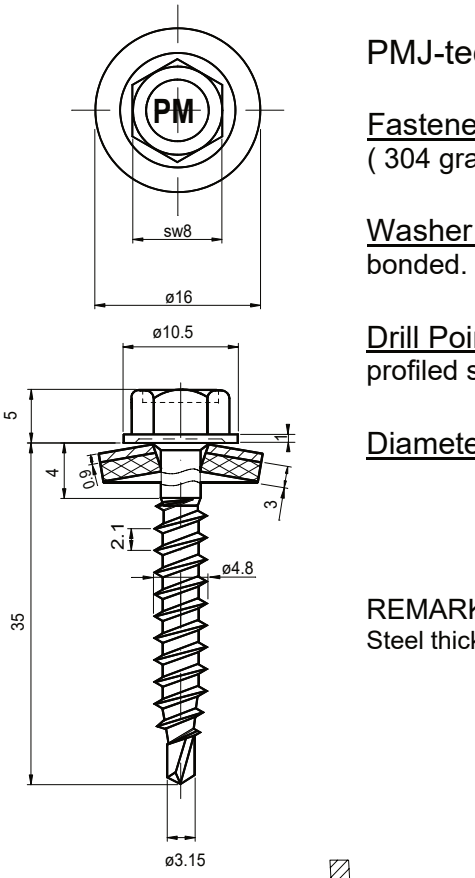
9,00 kN

Sheer breaking load F_Q in kN 

7,40 kN

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

Technical performance data sheet: 7561



PMJ-tec TOPEX PIASTA 7561 Ø 4.8 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

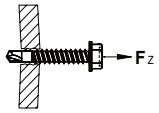
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point for fastening profiled sheets to timber

Diameter : Ø 4,8 mm.

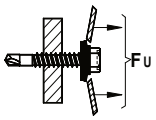
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



Timber thickness (fir wood)	10	15	20	25		
Values	870	1'663	2'044	2'587		

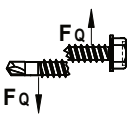
Pull-over load F_U in N



Steel (340 N / mm^2)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	5640	7720	9020	11100

Tensile breaking load Z_B in kN 

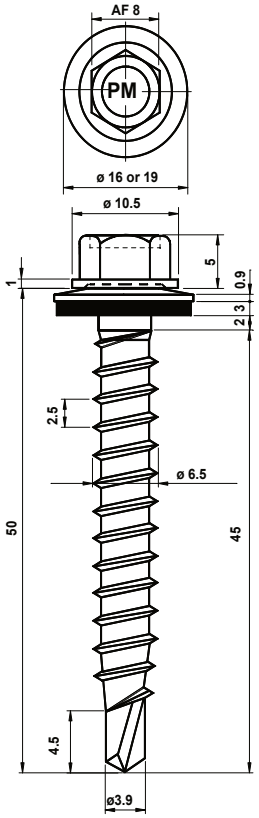
9,0 kN

Sheer breaking load F_Q in kN 

7,4 kN

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

Technical performance data sheet: 7565



PMJ-tec TOPEX PIASTA 7565 Ø 6.5 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

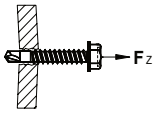
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (drilling capacity 0.8 – 2 X 1.25 mm. to timber)

Diameter : Ø 6,5 mm.

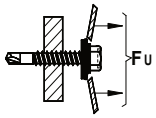
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



Timber thickness - mm. (fir wood)	20 mm.	30 mm.	40 mm.	
Values in N	3’350	6’715	7’398	

Pull-over load F_U in N



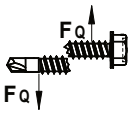
Steel S 280 GD (Dx51D)	0,4	0,54	0,62	0,77	0,88	1,02
Washer dia. **16** mm. Stainless steel	3595	4960	6050	7500	9424	10919
Washer dia. **19** mm. Stainless steel	3950	5470	6595	8390	10800	12120

Torsional strength in Nm — 15 Nm

Tensile breaking load Z_B in kN

14,6 kN

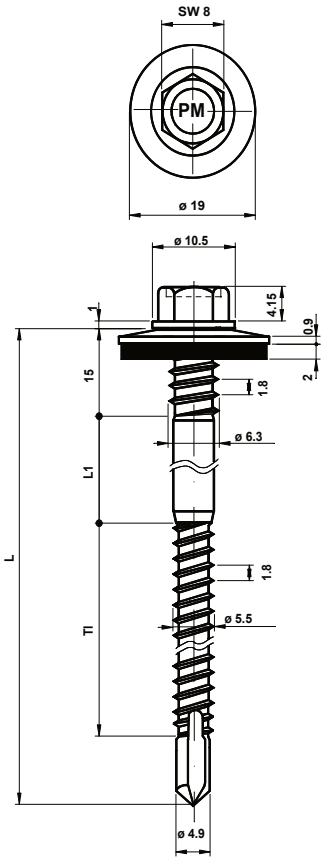
Sheer breaking load F_Q in kN



10,5 kN

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

Technical performance data sheet: 7570



PMJ-tec TOPEX PIASTA 7570 Ø 5.5/6.3 mm.

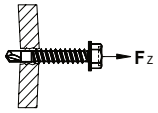
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 6,0 mm.)

Diameter : HIGH - THREAD Ø 5,5 / 6,3 mm.

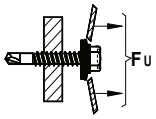
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



Pull-out load F_Z in N

Steel thickness	1,5	2,0	3,0	4,0	5,0	6,0
Steel S 280 GD (DX51D)	2020	3040	5910	7520	8110	8790

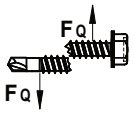
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	6640	7720	9020	11100

Tensile breaking load Z_B in kN 

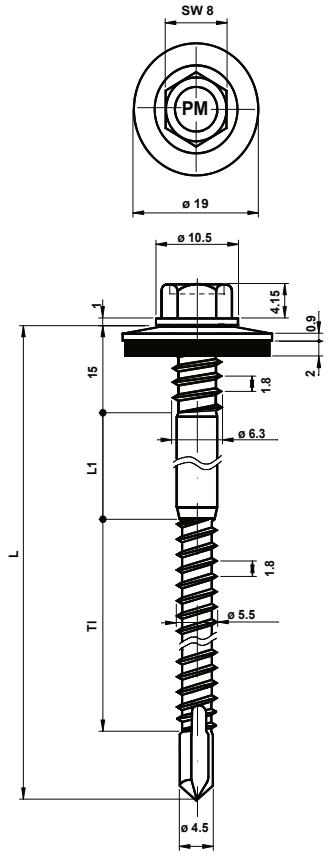
13,25 kN

Sheer breaking load F_Q in kN 

8,80 kN

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

Technical performance data sheet: 7571



PMJ-tec TOPEX PIASTA 7571 Ø 5.5/6.3 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

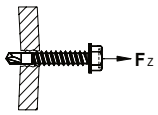
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,2– 3,5 mm.)

Diameter : HIGH - THREAD Ø 5,5 / 6,3 mm.

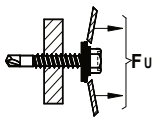
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness	1,2	1,5	2,0	2,5	3,0	4,0
Steel S 280 GD (DX51D)	1600	2300	3040	5050	5270	11380

Pull-over load F_U in N

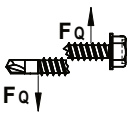


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3955	5600	6640	7720	9020	11100

Tensile breaking load Z_B in kN

13,25 kN

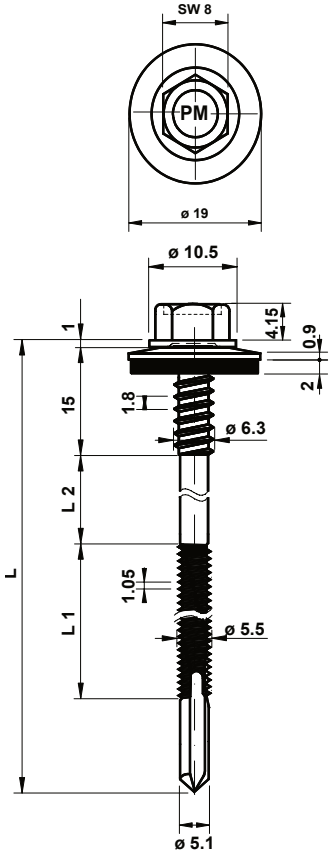
Sheer breaking load F_Q in kN



8,80 kN

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

Technical performance data sheet: 7575



PMJ-tec TOPEX PIASTA 7575 Ø 5.5/6.3 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

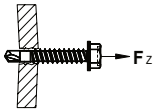
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.5 point (drilling capacity 4.0 – 12,5 mm.)

Diameter : HIGH - THREAD Ø 5,5 / 6,3 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

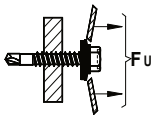
Pull-out load F_Z in N



Steel thickness	4,0	5,0	6.0	8.0	10,0	12,0
Steel S 235 (Ac 37 – 2)	10700	11600	12600*			

* rupture of screw

Pull-over load F_U in N

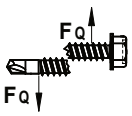


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	6640	7720	9020	11100

Tensile breaking load Z_B in kN

13,25 kN

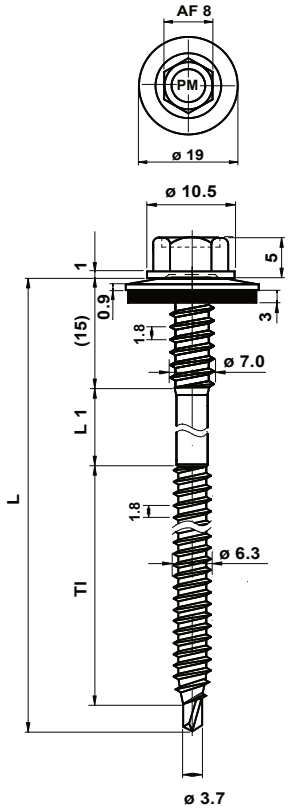
Sheer breaking load F_Q in kN



8,80 kN

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

Technical performance data sheet: 7580



PMJ-tec TOPEX PIASTA 7580 Ø 6.3/7.0 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

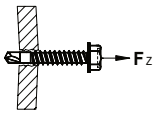
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Hardened carbon steel. no.1 point (for fastening composite panels to timber purlins, organic coating.)

Diameter : HIGH - THREAD Ø 6,3 / 7,0 mm.

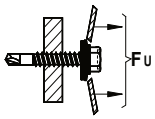
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



50 mm. Embedment into timber	9’100 N	

Pull-over load F_U in N

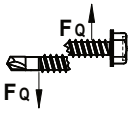


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	6640	7720	9020	11100

Tensile breaking load Z_B in kN

13,25 kN

Sheer breaking load F_Q in kN

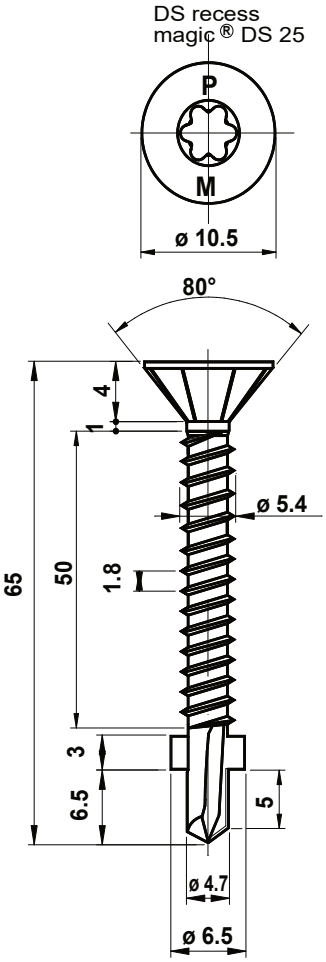


9,50 kN

Torsional strength in Nm 6,5 Nm

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

Technical performance data sheet: 7591



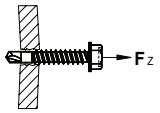
PMJ-tec TOPEX PIASTA 7591 Ø 5.5 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 5,0 mm.)

Diameter : Ø 5,5 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



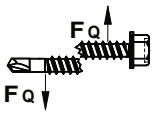
Pull-out load F_Z in N

Steel thickness	1,5	2,0	2,5	3,3	4,0	5,0
Steel S 280 GD (385 N/mm²)	2'456	3'565	4'585			
Steel S 235 (Ac 37 – 2)				7'584	9'924	Tensile value

Torsional strength in Nm: 10,5 Nm

Tensile breaking load Z_B in kN 

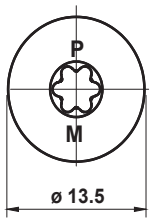
11,4 kN

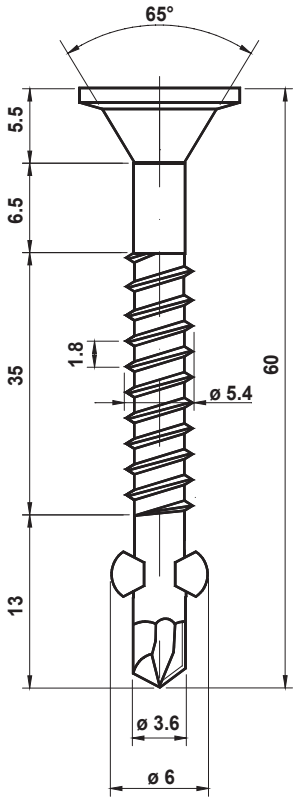
Sheer breaking load F_Q in kN 

8,3 kN

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

Technical performance data sheet: 7592 5,5





PMJ-tec TOPEX PIASTA 7591 with magic DS 25 drive for fastening: Timber to steel sub-structure from 1.25 – 2,0 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

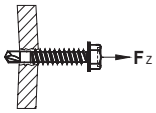
Drill Point : Hardened carbon steel. no.1 point (drilling capacity (1.0) 1.25 – 2,0 mm.)

Diameter : Ø 5,5 mm. Dia

Please refer to the **PMJ-tec TOPEX** product brochure for complete programme available.

"All values mentioned below are ultimate failure loads and do not contain any safety factors"

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2



Pull-out load F_Z in N

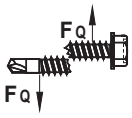
Steel thickness		* 1.0	1.25	1.5	2,0
Steel S 280 GD (385 N/mm²)		1'924	2'562	3'545	5'434

* With steel sub-structure 1.0 mm. not recommended !

Torsional strength in N ⌀ 8 Nm

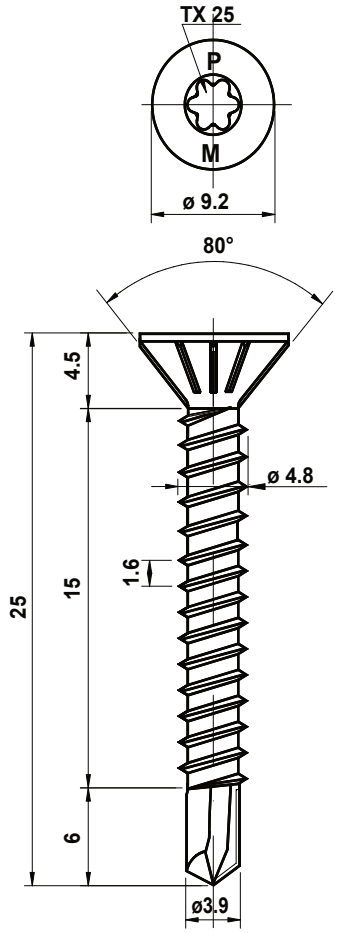
Tensile breaking load Z_B in kN 

⌀ 11,2 kN

Sheer breaking load F_Q in kN 

⌀ 8,3 kN

Technical performance data sheet: 7593



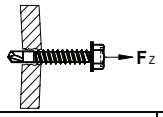
PMJ-tec TOPEX PIASTA 7593 Ø 4.8 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 1,5 – 4,5 mm.)

Diameter : Ø 4,8 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2



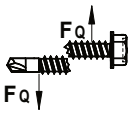
Pull-out load F_Z in N

Steel thickness in mm.		1.50	2.0	2.5		
Steel S 280 GD (395 N/mm²)		2'404	4'039	5'656		
Steel S 235 (Ac 37 – 2)						

Torsional strength in Nm: 6,2 Nm

Tensile breaking load Z_B in kN 

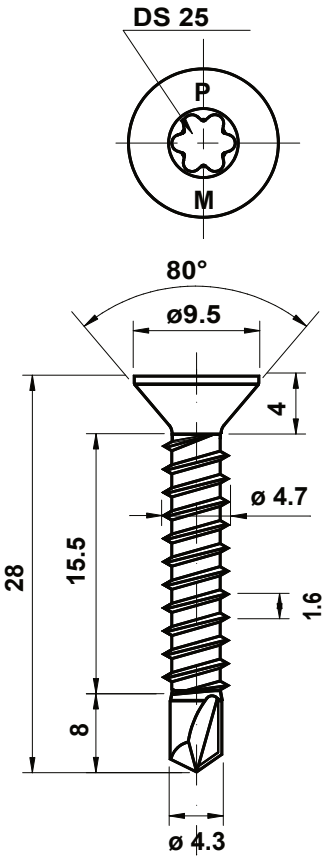
7,27 kN

Sheer breaking load F_Q in kN 

5,54 kN

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

Technical performance data sheet: 7595



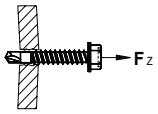
PMJ-tec TOPEX PIASTA 7595 Ø 4.8 mm.

Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.3 point (drilling capacity 2 - 6 mm.)

Diameter : Ø 4,8 mm.

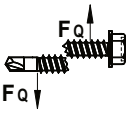
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N 

Steel thickness	2.0	3.3	4.0	5.0	6.0	
Steel S 280 GD (DX51D)	2'377	4'205	5'287	7'316	7'694	
Steel S 235 (Ac 37 - 2)						

Tensile breaking load Z_B in kN 

8,47 kN

Sheer breaking load F_Q in kN 

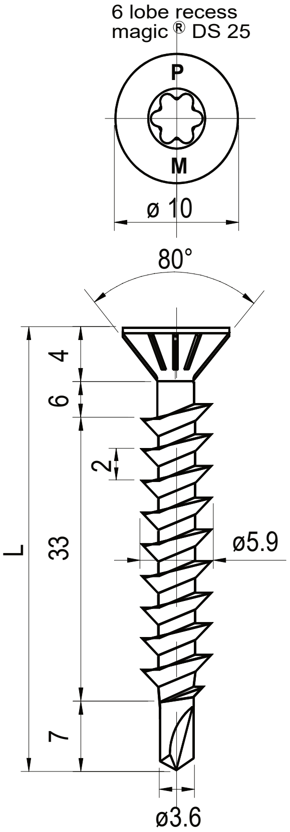
5,73 kN

Torsional breaking in Nm

6 Nm

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

Technical performance data sheet: 7596



PMJ-tec TOPEX PIASTA 7596 Ø 6.0 mm.

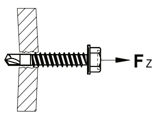
Fastener Material : Bi-Metal Austenitic Stainless Steel A2 (304 grade)

Drill Point : Hardened carbon steel. no.1 point (for Slate / Tile Timber 25 mm. To KS1000 TS Roof Panel)

Diameter : Ø 6,0 mm.

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in **Kn**



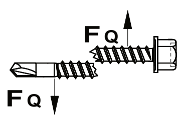
Steel thickness	0,5	0.75	20 mm wire on 0.7 mm. Panel	
Steel S 280 GD (390 N/mm²)	1,16	1,60	2,72	

Torsional strength in Nm: 8,5 Nm

Tensile breaking load Z_B in kN

10,2 kN

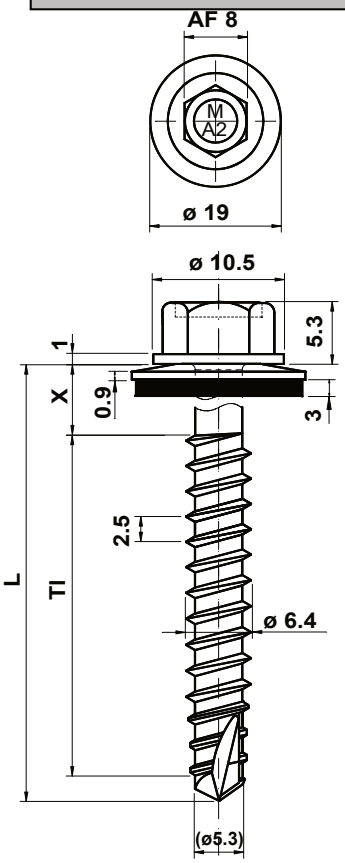
Sheer breaking load F_Q in kN



8,25 kN

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

Technical performance data sheet: 7641



PMJ-tec TOPEX STAINLESS STEEL 7641 Ø 6.5 mm

Fastener Material : 1.4301 Stainless Steel A2
(304G 5 N AISI 304)

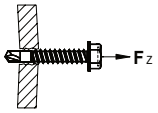
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Drill Point : Fully Hardened Stainless Steel (for fastening steel thickness max. 0.8 mm. to timber.)

Diameter : HIGH - THREAD Ø 6,5 mm.

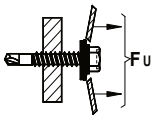
REMARKS:
Look out speed Max. 1'300 rpm
Steel Quality ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



30 mm. thread into timber	5'572 N	

Pull-over load F_U in N

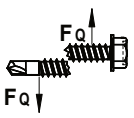


Steel S 280 GD (Dx51D) in mm.	0,4	0,5	0,63	0,75	0,88
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530
Washer dia. **19** mm. Stainless steel	3950	5600	6640	7720	9020

Tensile breaking load Z_B in kN

14,83 kN

Sheer breaking load F_Q in kN

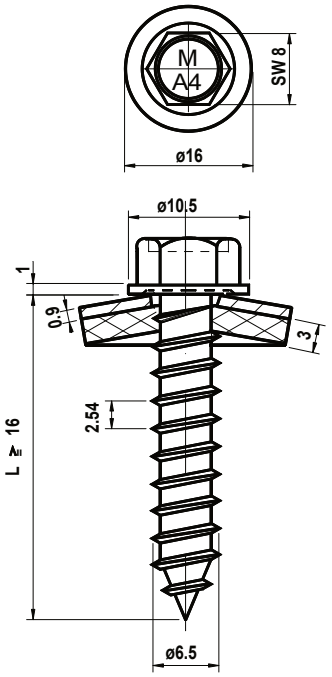


12,86 kN

Torsional strength in Nm 15 Nm

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

Technical performance data sheet: 7652



PMJ-tec TOPEX STAINLESS STEEL 7652 Ø 6.5 mm.

Fastener Material : Stainless Steel A4 (316 grade)

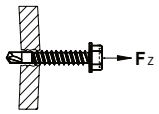
Washer Material : Stainless Steel A4 (316 grade), EPDM bonded.

Point - Form A : Point TYPE A

Diameter : Ø 6,5 mm

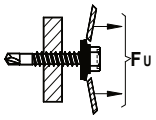
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness (with drill hole)	0,63	0,75	1,25	1,50	2,0	3,0
Drill- bit diameters	4,00	4,00	4,50	5,00	5,00	5,70
Steel S 280 GD (DX51D)	1’072	1’445	2’737	3’214	4’647	6’543
Steel S 235 (Ac 37 – 2)						

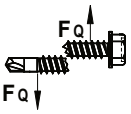
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,54	0,62	0,77	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	4960	6050	7500	9420	10990
Washer dia. **19** mm. Stainless steel	3950	5470	6595	8340	10800	12120

Tensile breaking load Z_B in kN 

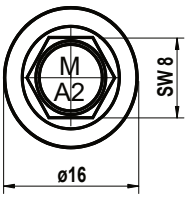
14,50 kN

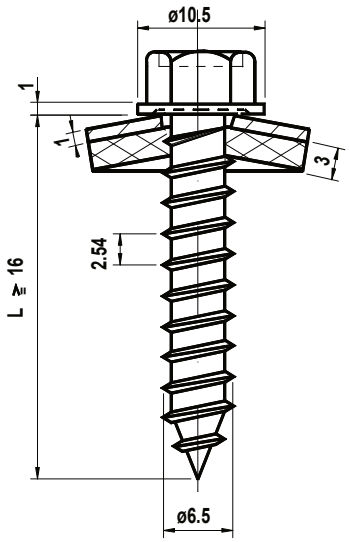
Sheer breaking load F_Q in kN 

9,10 kN

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

Technical performance data sheet: 7653





PMJ-tec TOPEX STAINLESS STEEL 7653 Ø 6.5 mm.

Fastener Material : Stainless Steel A2 (304 grade)

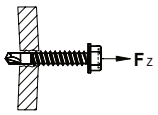
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Point - Form A : Point TYPE A

Diameter : Ø 6,5 mm

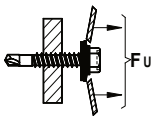
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness (with drill hole)	0,63	0,75	1,25	1,50	2,0	3,0
Drill- bit diameters	4,00	4,00	4,50	5,00	5,00	5,70
Steel S 280 GD (DX51D)	1’072	1’445	2’737	3’214	4’647	6’543
Steel S 235 (Ac 37 – 2)						

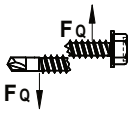
Pull-over load F_U in N



Steel S 280 GD (Dx51D)	0,4	0,54	0,62	0,77	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	4960	6050	7500	9420	10990
Washer dia. **19** mm. Stainless steel	3950	5470	6595	8340	10800	12120

Tensile breaking load Z_B in kN 

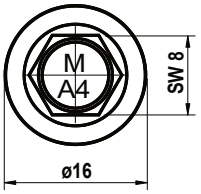
15,60 kN

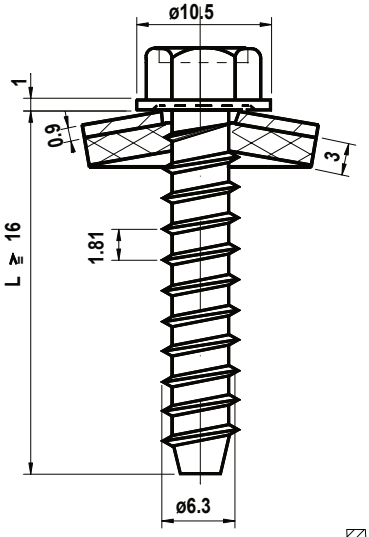
Sheer breaking load F_Q in kN 

13,08 kN

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

Technical performance data sheet: 7672





PMJ-tec TOPEX STAINLESS STEEL 7672 Ø 6.3 mm.

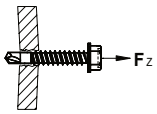
Fastener Material : Stainless Steel A4 (316 grade)

Washer Material : Stainless Steel A4 (316 grade), EPDM bonded.

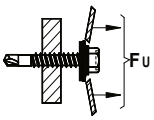
Point FS - Form BZ : Point TYPE B

Diameter : Ø 6,3 mm

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N 

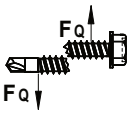
Steel thickness (with drill hole)	1,5	2,0	3,0	4,0	6,3	8,3	12,1
Drill- bit diameters	5,00	5,30	5,30	5,30	5,60	5,70	5,80
Steel S 280 GD (DX51D)	3’020	3’970	7’450				
Steel S 235 (Ac 37 – 2)				12’890	15’240	15’460	18’710

Pull-over load F_U in N 

Steel S 280 GD (Dx51D)	0,4	0,54	0,62	0,77	0,88	1,02
Washer dia. **16** mm. Stainless steel	3595	4960	6050	7500	9424	10919
Washer dia. **19** mm. Stainless steel	3950	5470	6595	8390	10800	12120

Tensile breaking load Z_B in kN 

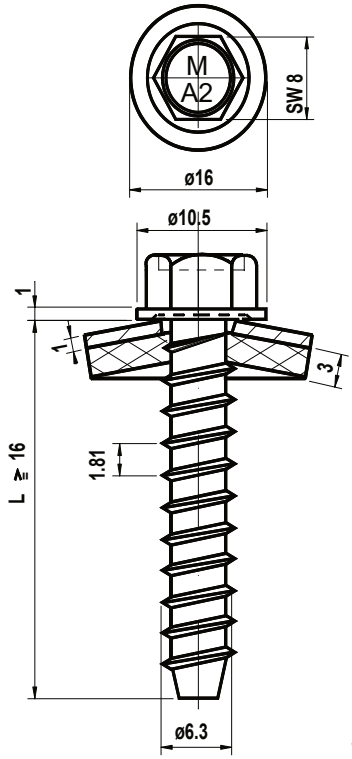
14,50 kN

Sheer breaking load F_Q in kN 

9,10 kN

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

Technical performance data sheet: 7673



PMJ-tec TOPEX STAINLESS STEEL 7673 Ø 6.3 mm.

Fastener Material : Stainless Steel A2 (304 grade)

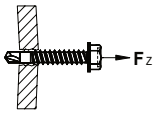
Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

Point FS - Form BZ : Point TYPE B

Diameter : Ø 6,3 mm

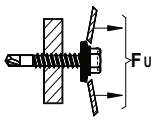
REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N



Steel thickness (with drill hole)	1,5	2,0	3,0	4,0	6,3	8,3	12,1
Drill- bit diameters	5,00	5,30	5,30	5,30	5,60	5,70	5,80
Steel S 280 GD (DX51D)	3'020	3'970	7'450				
Steel S 235 (Ac 37 – 2)				12'890	15'240	15'460	18'710

Pull-over load F_U in N

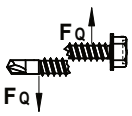


Steel S 280 GD (Dx51D)	0,4	0,54	0,62	0,77	0,88	1,02
Washer dia. **16** mm. Stainless steel	3595	4960	6050	7500	9424	10919
Washer dia. **19** mm. Stainless steel	3950	5470	6595	8390	10800	12120

Tensile breaking load Z_B in kN

18,71 kN

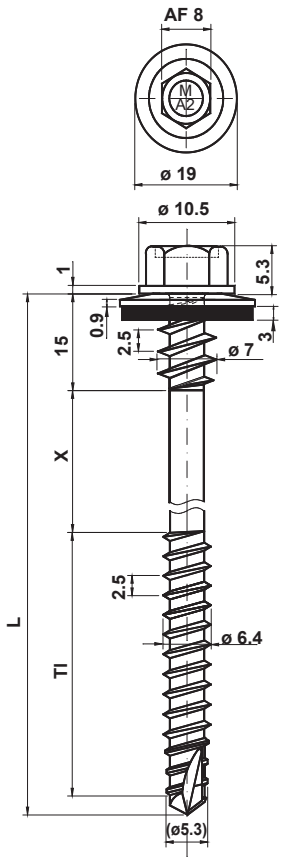
Sheer breaking load F_Q in kN



12,62 kN

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

Technical performance data sheet: 7680



PMJ-tec TOPEX Stainless Steel HIGH - THREAD 7680

Fastener Material : 1.4301 Stainless Steel A2
(304G 5 N AISI 304)

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

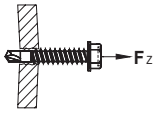
Drill Point : Fully Hardened Stainless Steel (for fastening composite panels to timber purlins.)

Diameter : Ø 6,5 / 7,0 mm

"All values mentioned below are ultimate failure loads and do not contain any safety factors"

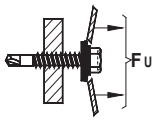
REMARKS:
Steel Quality ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2

Pull-out load F_Z in N



30 mm. Embedment into timber	5'572 N	

Pull-over load F_U in N

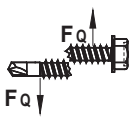


Steel S 280 GD (Dx51D)	0,4	0,5	0,63	0,75	0,88	1,00
Washer dia. **16** mm. Stainless steel	3595	5090	5430	6440	7530	8620
Washer dia. **19** mm. Stainless steel	3950	5600	6640	7720	9020	11100

Tensile breaking load Z_B in kN

ø 14,83 kN

Sheer breaking load F_Q in kN



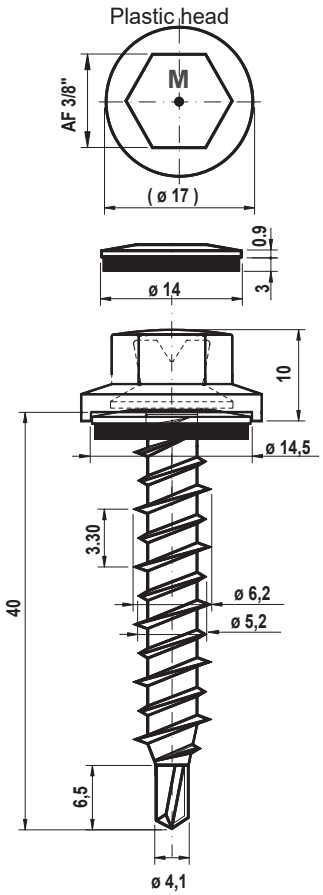
ø 12,86 kN

Torsional strength in N

ø 15 Nm

Technical performance data sheet: 7813

7813



PMJ-tec TOPEX 7813 Ø 6,3 mm.

Fastener Material : Hardened carbon steel AISI 1018

Plastic head: reinforced glass fibre polyamide composition with built-in UV-stabilisers.

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

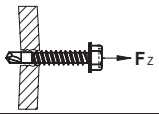
Drill Point : Hardened carbon steel. no.1 point (drilling capacity max. 2 X 1.25 mm steel to timber.)

Diameter : Ø 6,3 mm.

Coating : Dural 250h (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

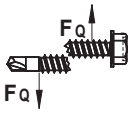
Pull-out load F_Z in N



Timber thickness in mm.	10	15	20	25	30
Values in N	1’663	2’329	3’489	4’275	5’093

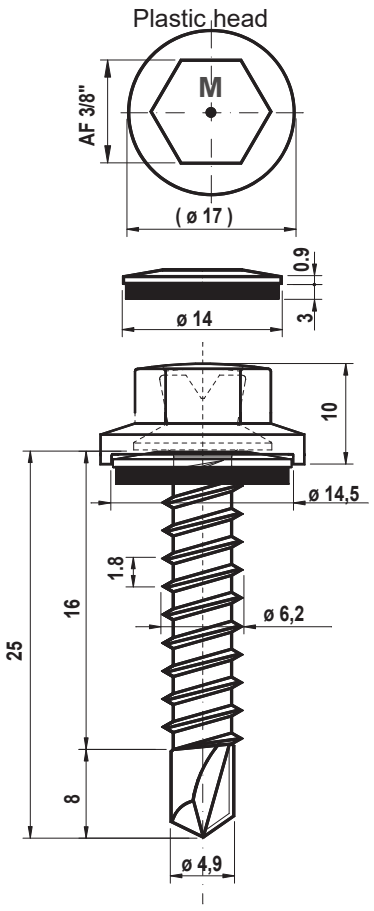
Torsional strength in Nm — 11 Nm from 11 Nm. plastic head break

Tensile breaking load Z_B in kN  16,8 kN

Sheer breaking load F_Q in kN  11,1 kN

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

Technical performance data sheet: 7814



PMJ-tec TOPEX 7814 Ø 6,3 mm.

Fastener Material : Hardened carbon steel AISI 1018

Plastic head: reinforced glass fibre polyamide composition with built-in UV-stabilisers.

Washer Material : Stainless Steel A2 (304 grade), EPDM bonded.

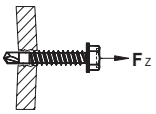
Drill Point : Hardened carbon steel. no.2 point (drilling capacity 1,0 – 3.5 mm.)

Diameter : Ø 6,3 mm.

Coating : Dural 250h (Tested SST – DIN 50021 SS)

REMARKS:
Steel thickness ≤ 3 mm. S 280 GD (Dx51D) 270 – 500 N / mm^2
Steel thickness ≥ 3 mm. S 235 (Ac 37-2) 340 – 470 N / mm^2

Pull-out load F_Z in N

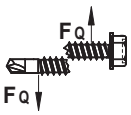


Steel thickness in mm.	1.00	1.50	2.00	2.50	3.00	
Steel S 280 GD (DX51D)	1’636	3’316	5’217	7’761		
Steel S 235 (Ac 37 – 2)					8’808	

Torsional strength in Nm — 11 Nm from 11 Nm. plastic head break

Tensile breaking load Z_B in kN 

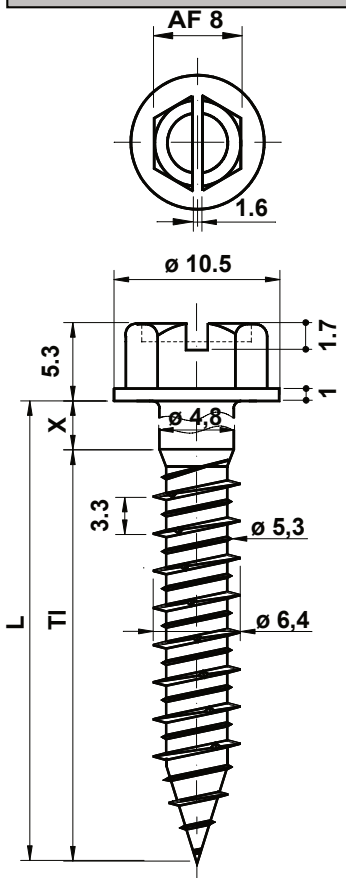
17,2 kN

Sheer breaking load F_Q in kN 

11,9 kN

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

Technical performance data sheet: 7890



PMJ-tec TOPEX 7890 Ø 6,5 mm

Fastener Material : Hardened carbon steel AISI 1018

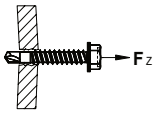
Point : Hardened carbon steel. S point (drilling capacity for concrete pre-drilled Ø 5)

Diameter : Ø 6,5 mm.

Coating : Dural 1000 blue (Tested SST – DIN 50021 SS)

REMARKS:

Concrete screws with Head form according DIN 7504 L

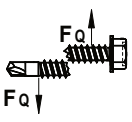


Pull-out load F_Z in N

Drilling thread in mm. into concrete	20 mm.	30 mm.	40 mm.
Concrete CP 300 pre-drilled Ø 5 mm.	4'706 N	8'436 N	11'367 N

Torsional strength in Nm — 16 Nm

Tensile breaking load Z_B in kN  15,08 kN

Sheer breaking load F_Q in kN  9,74 kN

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

Note

Our policy of continuing product development and improvement, necessitates that we reserve the right to modify designs shown in our catalogue without prior notice.

topex technical documentation

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