

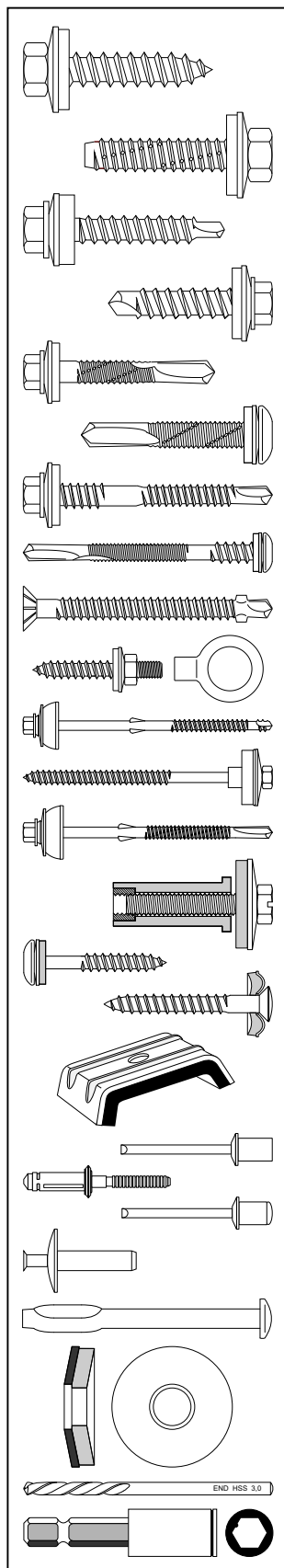
Proiectate pentru maximum de performanta



Fixari si etansari pentru hale industriale

de la **MIRADTEHNIC**





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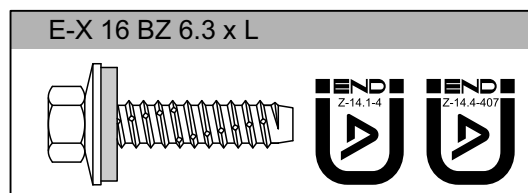
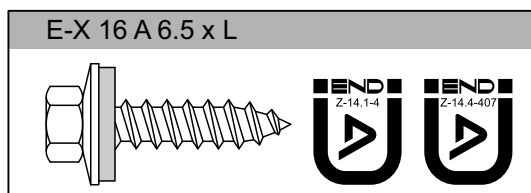
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Supporting member of the:

IFBS Industrieverband
für Bausysteme
im Stahlleichtbau

Surub autofiletant din otel inoxidabil 1.4301 cu sau fara saiba din inox premontata.
Saiba are vulcanizata etansare EPDM.



Further information on the approval, compliance certificate and bearing ratios is provided on pages 37, 39 and 40.

Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPDM premontata Ø 16 [€ / 100 items]	Name
E-X 16 A 6.5 x 13	13,25	16,50	
E-X 16 A 6.5 x 16	13,60	16,85	E-X 16 BZ 6.3 x 16
E-X 16 A 6.5 x 20	13,65	16,90	E-X 16 BZ 6.3 x 20
E-X 16 A 6.5 x 25	15,85	19,10	E-X 16 BZ 6.3 x 25
E-X 16 A 6.5 x 32	19,05	22,30	E-X 16 BZ 6.3 x 32
E-X 16 A 6.5 x 38	23,10	26,35	E-X 16 BZ 6.3 x 38
E-X 16 A 6.5 x 45	24,45	27,70	E-X 16 BZ 6.3 x 45
E-X 16 A 6.5 x 50	25,85	29,10	E-X 16 BZ 6.3 x 50
E-X 16 A 6.5 x 60	31,70	34,95	E-X 16 BZ 6.3 x 60
E-X 16 A 6.5 x 65	34,40	37,65	E-X 16 BZ 6.3 x 65
E-X 16 A 6.5 x 70	37,20	40,45	E-X 16 BZ 6.3 x 70
E-X 16 A 6.5 x 75	39,10	42,35	E-X 16 BZ 6.3 x 75
E-X 16 A 6.5 x 80	40,95	44,20	E-X 16 BZ 6.3 x 80
E-X 16 A 6.5 x 85	42,90	46,15	E-X 16 BZ 6.3 x 85
E-X 16 A 6.5 x 90	46,35	49,60	E-X 16 BZ 6.3 x 90
E-X 16 A 6.5 x 100	49,70	52,95	E-X 16 BZ 6.3 x 100
E-X 16 A 6.5 x 115	56,40	59,65	E-X 16 BZ 6.3 x 115
E-X 16 A 6.5 x 130	63,25	66,50	E-X 16 BZ 6.3 x 130
E-X 16 A 6.5 x 150	73,50	76,75	E-X 16 BZ 6.3 x 150
E-X 16 A 6.5 x 175	90,55	93,80	E-X 16 BZ 6.3 x 175
E-X 16 A 6.5 x 200	116,75	120,00	E-X 16 BZ 6.3 x 200
E-X 16 A 6.5 x 220	131,75	135,00	E-X 16 BZ 6.3 x 220
E-X 16 A 6.5 x 240	147,30	150,55	E-X 16 BZ 6.3 x 240
E-X 16 A 6.5 x 260	161,75	165,00	E-X 16 BZ 6.3 x 260
E-X 16 A 6.5 x 280	176,75	180,00	E-X 16 BZ 6.3 x 280
E-X 16 A 6.5 x 300	191,50	194,75	E-X 16 BZ 6.3 x 300

Application

Fastened on a wooden substructure or a steel substructure with a flange thickness of up to 3.0 mm.

Application

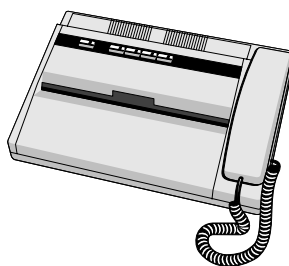
Fastened on a steel substructure with a flange thickness of 1.25 mm or more.

Available from stock:

- Stainless steel 1.4401 (A4), Price on application
- Width across flats 8 mm
- Coloured fasteners

Pentru orice informatie privind produsele, selectarea si utilizarea acestora :

INFOLINE:
0332 803469

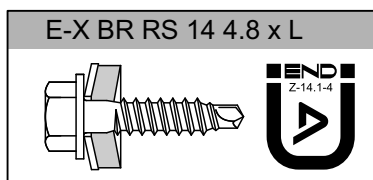
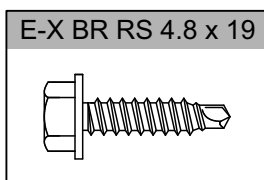


Puteti sa ne contactati la orice ora pentru comenzi sau orice tip de informatii tehnice, iar noi va vom raspunde in cel mai scurt timp posibil.

E-mail:
info@mirad-tehnic.ro

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Surub autoperforant din otel inoxidabil 1.4301 cu sau fara saiba premontata din otel inox 1.4301. Saiba are vulcanizata etansare EPDM. Perforeaza doar table si profile din aluminiu.

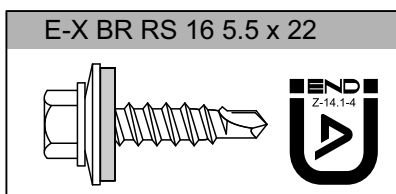


Further information on the approval, compliance certificate and bearing ratios is provided on page 38.

Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 14 [€ / 100 buc]	Capacitate perf. maxima [mm]
E-X BOHR RS 4.8 x 19	12,15	-	pregaurire
E-X BOHR RS 14 4.8 x 20	-	15,15	

Aplicatii

Montarea inchiderilor cu foi de tabla; va rugam sa cautati informatii despre produs la pagina 34. Extras din Agreement ETA.

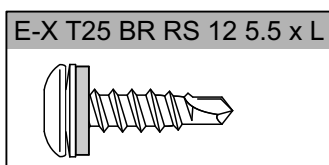


Further information on the approval, compliance certificate and bearing ratios is provided on page 38.

Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 16 [€ / 100 items]	Capacitate perf. [mm]
E-X BOHR RS 16 5.5 x 22	16,90	20,15	pregaurire

Aplicatii

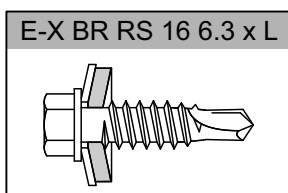
Montarea inchiderilor cu foi de tabla; va rugam sa cautati informatii despre produs la pagina 34.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 12 [€ / 100 items]	Capacitate perf. [mm]
E-X T25 BR RS 12 5.5 x 22	18,80	21,60	pregaurire

Aplicatii

Montarea inchiderilor cu foi de tabla. Surubul este indicat in special pentru montarea tablelor sinus pe fatade.

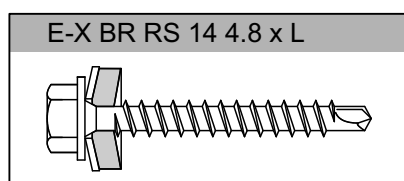


Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 16 [€ / 100 items]	Capacitate perf. [mm]
E-X BOHR RS 16 6.3 x 25	28,75	32,00	pregaurire

Aplicatii

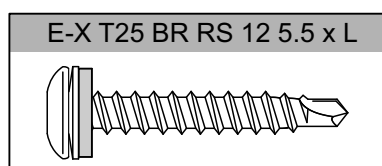
Montarea inchiderilor cu foi de tabla; va rugam sa cautati informatii despre produs la pagina 34.

Surub autoperforant din otel inoxidabil 1.4301 cu sau fara saiba premontata din otel inox 1.4301. Saiba are vulcanizata etansare EPDM



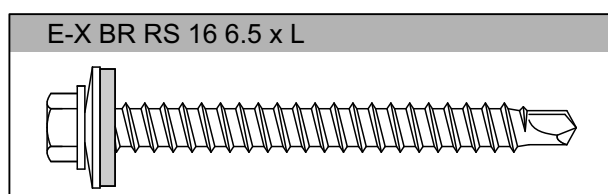
Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 14 [€ / 100 items]	Capacitate perf. [mm]
E-X BOHR RS 14 4.8 x 35	18,40	21,30	Lemn
E-X BOHR RS 14 4.8 x 80	35,95	38,85	

Application
Montaje pe substructuri din lemn.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 12 [€ / 100 items]	Capacitate perf. [mm]
E-X T25 BR RS 12 5.5 x 38	25,30	28,10	Lemn

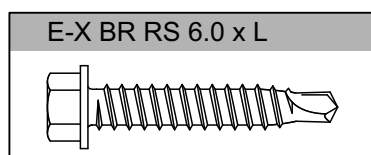
Application
Montaje pe substructuri din lemn. Surubul este indicat in special pentru montarea tablelor sinus pe fatade.



Approval by the building authorities according to Z-14.1-4 has been applied for.

Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 16 [€ / 100 items]	Capacitate perf. [mm]
E-X BOHR RS 16 6.5 x 50	38,10	41,35	Lemn
E-X BOHR RS 16 6.5 x 65	43,55	46,80	
E-X BOHR RS 16 6.5 x 80	58,60	60,85	

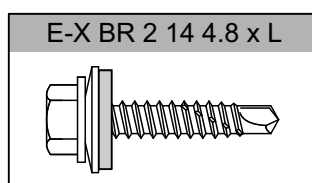
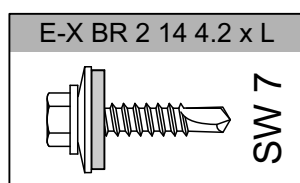
Application
Montaje pe substructuri din lemn.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 16 [€ / 100 items]	Capacitate perf. otel [mm]
E-X BOHR RS 16 6.0 x 35	30,40	33,65	3.0 mm

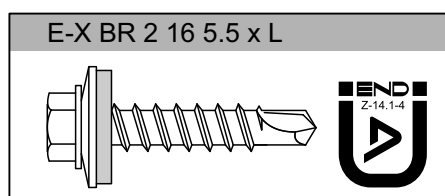
Application
Montarea cu suruburi (coasere) a profilelor si tablelor pe substructuri din otel..

Surub autopercutant din oțel inoxidabil 1.4301 cu sau fara saiba premontata din oțel inox 1.4301. Saiba are vulcanizata etansare EPDM



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 14 [€ / 100 items]	Capacitate perf. oțel [mm]
E-X BOHR 2 14 4.2 x 19 SW 7	16,10	19,00	2.5
E-X BOHR 2 14 4.8 x 16	17,20	20,10	
E-X BOHR 2 14 4.8 x 20	18,70	21,60	
E-X BOHR 2 14 4.8 x 25	21,65	24,55	

Application
Montarea foilor de tabla.

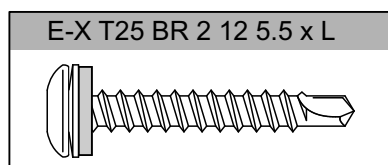


Weitere Informationen zur Zulassung, dem Übereinstimmungsnachweis und den Tragfähigkeitswerten finden Sie auf Seite 38.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 16 [€ / 100 items]	Capacitate perf. [mm]
E-X BOHR 2 16 5.5 x 25	18,25	21,50	3.5
E-X BOHR 2 16 5.5 x 28	19,20	22,45	
E-X BOHR 2 16 5.5 x 38	26,95	29,20	
E-X BOHR 2 16 5.5 x 50	33,85	37,10	
E-X BOHR 2 16 5.5 x 58	37,10	40,35	
E-X BOHR 2 16 5.5 x 65	41,65	44,90	
E-X BOHR 2 16 5.5 x 80	57,60	60,85	
E-X BOHR 2 16 5.5 x 100	62,50	65,75	

Application
Montaj table pe profile subtiri din oțel (< 3.5 mm) sau pe caseta structurala.

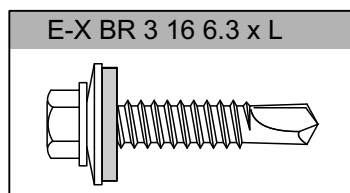
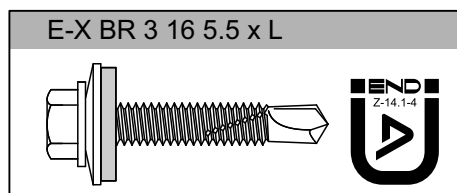


Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 12 [€ / 100 items]	Capacitate perf. oțel [mm]
E-X T25 BR 2 12 5.5 x 25	19,55	21,35	3.5
E-X T25 BR 2 12 5.5 x 38	24,20	27,00	
E-X T25 BR 2 12 5.5 x 50	37,20	39,00	

Application
Montaj table pe profile subtiri din tabla sau pe caseta structurala. Surubul este indicat in special pentru montarea tablelor sinus pe profile la fatade.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Surub autoperforant din otel inoxidabil 1.4301 cu sau fara saiba premontata din otel inox 1.4301. Saiba are vulcanizata etansare EPDM

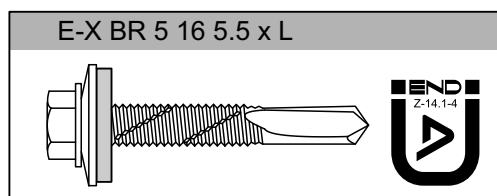


Further information on the approval, compliance certificate and bearing ratios is provided on page 39.

Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 16 [€ / 100 items]	Capacitate perf. [mm]
E-X BOHR 3 16 5.5 x 26	22,10	24,35	6.0
E-X BOHR 3 16 5.5 x 32	24,00	29,25	
E-X BOHR 3 16 5.5 x 38	26,95	28,20	
E-X BOHR 3 16 5.5 x 50	35,40	38,65	
E-X BOHR 3 16 5.5 x 65	43,20	46,45	
E-X BOHR 3 16 6.3 x 25	35,60	38,85	

Application

Montaj pe structuri din otel de maxim 6 mm.



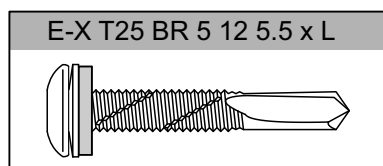
Further information on the approval, compliance certificate and bearing ratios is provided on page 39.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 16 [€ / 100 items]	Capacitate perf. otel [mm]
E-X BOHR 5 16 5.5 x 38	37,30	40,55	12.5
E-X BOHR 5 16 5.5 x 50	40,10	43,35	
E-X BOHR 5 16 5.5 x 65	46,10	49,35	
E-X BOHR 5 16 5.5 x 80	63,75	67,00	
E-X BOHR 5 16 5.5 x 100	63,25	66,50	

Application

Montaj pe structuri din otel de maxim 12,5 mm.



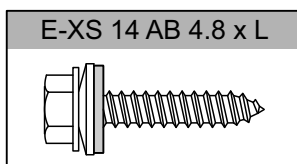
Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 12 [€ / 100 items]	Capacitate perf. [mm]
E-X T25 BR 5 12 5.5 x 38	38,65	41,45	12.5

Application

Montaj pe structuri din otel de maxim 12,5 mm. Surubul este indicat in special pentru montarea tablelor sinus

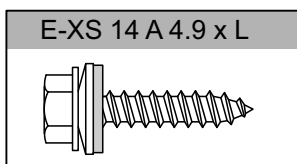
Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Surub autoperforant din otel inoxidabil 1.4301 cu sau fara saiba premontata din otel inox 1.4301. Saiba are vulcanizata etansare EPDM



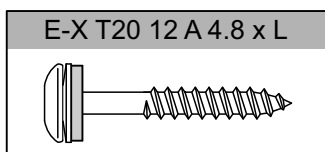
Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 14 [€ / 100 items]
E-XS 14 AB 4.8 x 16	12,25	15,15
E-XS 14 AB 4.8 x 19	12,75	15,65
E-XS 14 AB 4.8 x 25	13,95	16,85
E-XS 14 AB 4.8 x 32	15,75	18,65
E-XS 14 AB 4.8 x 38	17,00	19,90
E-XS 14 AB 4.8 x 50	20,10	23,00
E-XS 14 AB 4.8 x 60	23,65	26,55

Application
Montaj pe structuri din otel.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 14 [€ / 100 items]
E-XS 14 A 4.9 x 25	13,95	16,85
E-XS 14 A 4.9 x 32	15,75	18,65
E-XS 14 A 4.9 x 38	17,00	19,90
E-XS 14 A 4.9 x 60	23,65	26,55

Application
Montaje pe substructura din lemn.

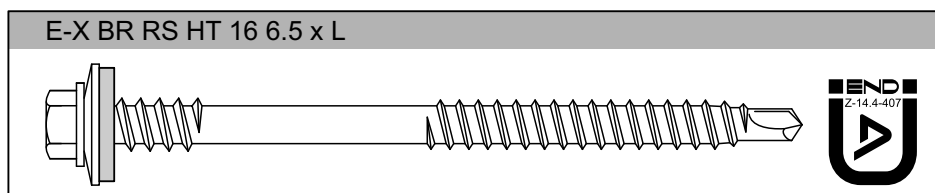


Name	Fara saiba etansare [€ / 100 items]	Cu saiba din otel inox Ø 12 [€ / 100 items]
E-X T20 12 A 4.8 x 25	15,55	18,35
E-X T20 12 A 4.8 x 32	15,90	18,70
E-X T20 12 A 4.8 x 38	16,40	19,20
E-X T20 12 A 4.8 x 50	19,40	22,20
E-X T20 12 A 4.8 x 60	21,65	24,45
E-X T20 12 A 4.8 x 80	27,05	29,85
E-X T20 12 A 4.8 x 100	33,20	36,00

Application
Montaje pe substructura din lemn.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Surub autoperforant din oțel inoxidabil 1.4301 cu sau fara saiba premontata din oțel inox 1.4301. Saiba are vulcanizata etansare EPDM

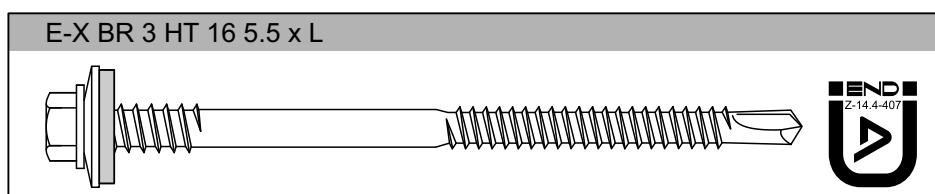


Further information on the approval, compliance certificate and bearing ratios is provided on page 36.

Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 16 [€ / 100 items]	Capacitate perf. [mm]	Pachet de prindere de la - la [mm]
E-X BOHR RS HT 16 6.5 x 80	53,30	66,55	Pe lemn	< 30
E-X BOHR RS HT 16 6.5 x 100	85,15	88,40		< 50
E-X BOHR RS HT 16 6.5 x 120	92,90	96,15		< 70
E-X BOHR RS HT 16 6.5 x 140	101,20	104,45		< 90
E-X BOHR RS HT 16 6.5 x 160	108,95	112,20		< 110
E-X BOHR RS HT 16 6.5 x 180	130,65	133,90		< 130
E-X BOHR RS HT 16 6.5 x 200	142,55	145,80		< 150
E-X BOHR RS HT 16 6.5 x 220	153,10	156,35		< 170
E-X BOHR RS HT 16 6.5 x 240	162,10	165,35		< 190

Application

Montajul panourilor sandwich pe substructura din lemn.

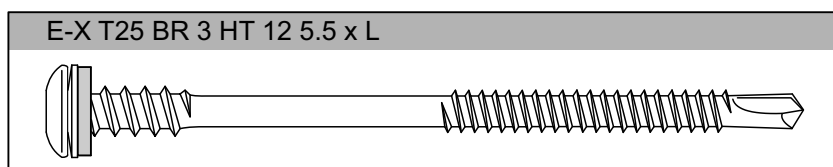


Further information on the approval, compliance certificate and bearing ratios is provided on page 36.

Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 16 [€ / 100 items]	Capacitate perf. [mm]	Pachet de prindere grosime panou [mm]
E-X BOHR 3 HT 16 5.5 x 70	62,40	65,65	5.5	22 - 47
E-X BOHR 3 HT 16 5.5 x 85	71,35	74,60		32 - 62
E-X BOHR 3 HT 16 5.5 x 95	73,85	77,10		42 - 72
E-X BOHR 3 HT 16 5.5 x 110	77,00	80,25		57 - 87
E-X BOHR 3 HT 16 5.5 x 130	84,45	87,70		77 - 107
E-X BOHR 3 HT 16 5.5 x 150	89,15	92,40		99 - 127
E-X BOHR 3 HT 16 5.5 x 165	102,50	105,75		112 - 142
E-X BOHR 3 HT 16 5.5 x 180	112,50	115,75		127 - 157
E-X BOHR 3 HT 16 5.5 x 200	128,10	131,35		148 - 177
E-X BOHR 3 HT 16 5.5 x 230	153,10	156,35		178 - 207

Application

Montajul panourilor sandwich pe substructura din oțel.

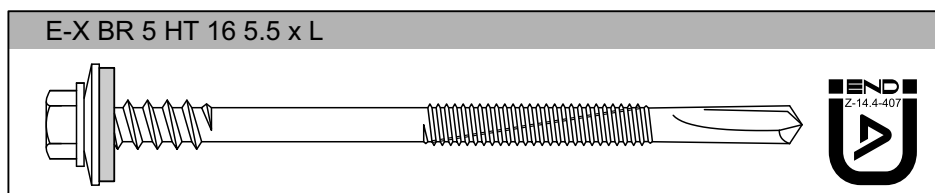


Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 12 [€ / 100 items]	Capacitate perf. performance [mm]	Clamping area from - to [mm]
E-X T25 BR 3 HT 12 5.5 x 120	78,85	83,85	5.5	69 - 96

Application

Montajul panourilor sandwich pe substructura din oțel. Indicat pentru fixarea panourilor cu tabla sinus..

Surub autoperforant din oțel inoxidabil 1.4301 cu sau fara saiba premontata din oțel inox 1.4301. Saiba are vulcanizata etansare EPDM.

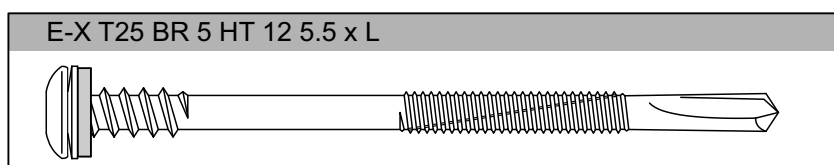


Further information on the approval, compliance certificate and bearing ratios is provided on page 37.

Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 16 [€ / 100 items]	Capacitate perf. performance [mm]	Pachet de prindere Grosime panou[mm]
E-X BOHR 5 HT 16 5.5 x 75	65,50	68,75	14.0	24 - 35
E-X BOHR 5 HT 16 5.5 x 95	77,45	80,70		28 - 55
E-X BOHR 5 HT 16 5.5 x 110	84,25	87,50		43 - 70
E-X BOHR 5 HT 16 5.5 x 125	91,10	94,35		58 - 85
E-X BOHR 5 HT 16 5.5 x 150	104,75	108,00		83 - 110
E-X BOHR 5 HT 16 5.5 x 165	119,20	122,45		98 - 125
E-X BOHR 5 HT 16 5.5 x 185	123,70	126,95		113 - 145
E-X BOHR 5 HT 16 5.5 x 210	144,75	148,00		138 - 170
E-X BOHR 5 HT 16 5.5 x 240	159,30	162,55		168 - 200

Application

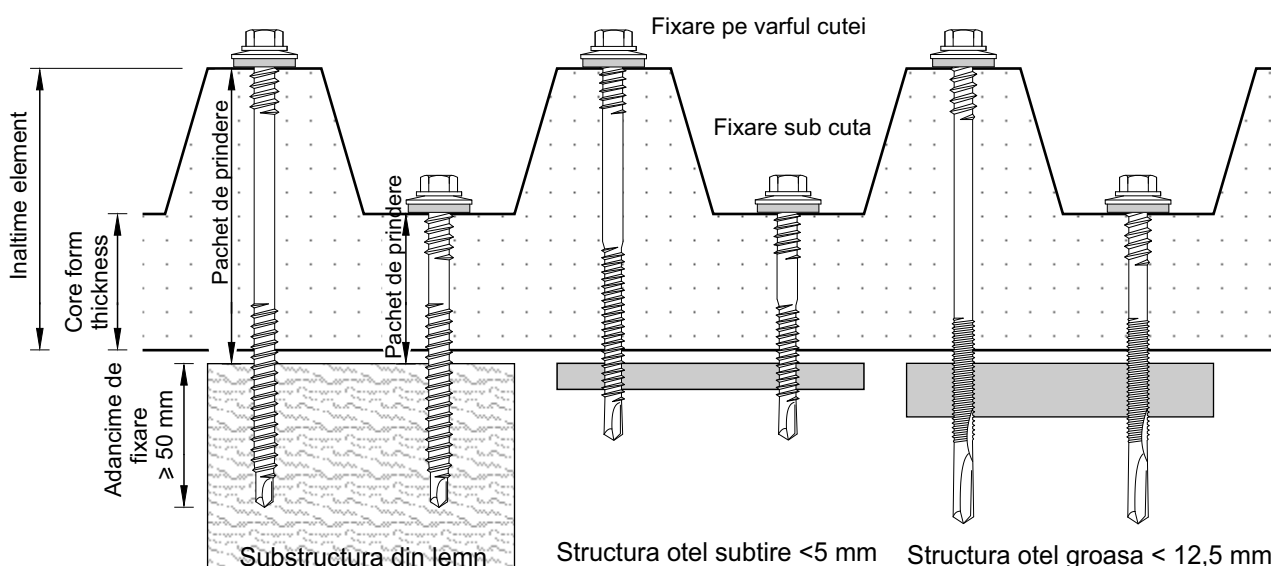
Montajul panourilor sandwich pe substructura din oțel.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 12 [€ / 100 items]	Capacitate perf. performance [mm]	Pachet de prindere Grosime panou[mm]
E-X T25 BR 5 HT 12 5.5 x 130	103,70	108,70	12.5	63 - 90

Application

Montajul panourilor sandwich pe substructura din oțel. Indicat pentru fixarea panourilor cu tabla sinus..



E-X BOHR RS HT 6.5 x L

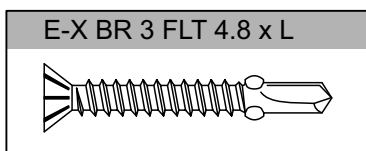
E-X BOHR 3 HT 5.5 x L

E-X BOHR 5 HT 5.5 x L

E-VS BOHR 3 HT 5.5 x L

E-VS BOHR 5 HT 5.5 x L

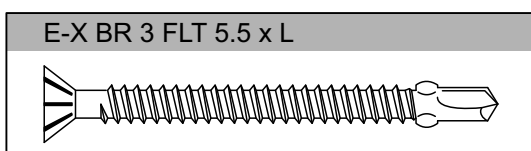
Surub autop perforant din otel inox1.4301 cu cap zenc cu rizuri si aripioare.



Name	Price [€ / 100 items]	Drive	Capacitate perf. [mm]	Grosime lemn [mm]
E-X BOHR FLT 4.8 x 38	18,40	PH 2	3.5	5 - 18
E-X BOHR FLT 4.8 x 50	26,95			5 - 30

Application

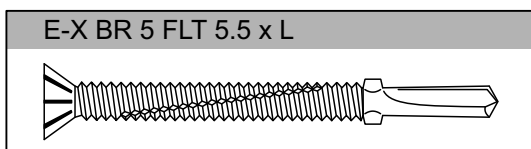
Pentru fixarea panourilor din lemn pe structuri din otel. grosimea minima a substructurii nu trebuie sa fie sub 1.25 mm.



Name	Price [€ / 100 items]	Drive	Capacitate perf. [mm]	Grosime lemn [mm]
E-X BOHR 3 FLT 5.5 x 60	31,20	PH 3	5.0	10 - 38
E-X BOHR 3 FLT 5.5 x 85	37,90			20 - 63
E-X BOHR 3 FLT 5.5 x 109	46,50			45 - 88
E-X BOHR 3 FLT 5.5 x 130	55,40			max. 105

Application

Pentru fixarea panourilor din lemn pe structuri din otel. grosimea minima a substructurii nu trebuie sa fie sub 1.25 mm.



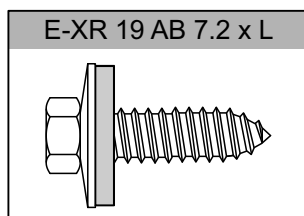
Name	Price [€ / 100 items]	Drive	Capacitate perf. [mm]	Grosime lemn [mm]
E-X BOHR 5 FLT 5.5 x 60	36,10	PH 3	12.5	5 - 24
E-X BOHR 5 FLT 5.5 x 85	39,00			13 - 49
E-X BOHR 5 FLT 5.5 x 109	47,00			37 - 73
E-X BOHR 5 FLT 5.5 x 130	67,20			max. 94

Application

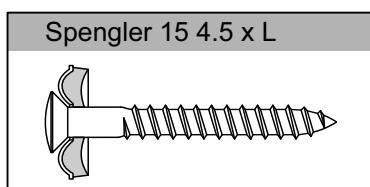
Pentru fixarea panourilor din lemn pe structuri din otel. grosimea minima a substructurii nu trebuie sa fie sub 1.25 mm.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

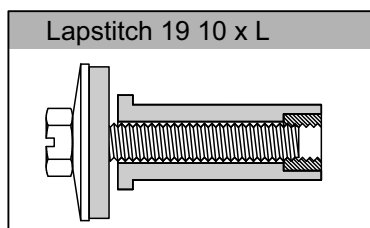
Surub autofiletant din oțel inoxidabil 1.4301 cu sau fara saiba premontata din oțel inox 1.4301. Saiba are vulcanizata etansare EPDM.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba din oțel inox Ø 19 [€ / 100 items]
E-XR 19 AB 7.2 x 19	26,60	31,85
E-XR 19 AB 7.2 x 25	29,60	34,85
E-XR 19 AB 7.2 x 38	40,90	46,15
Application		
Surub de reparatie. Inlocuieste surubul de 6,3 mm montat gresit in oțel sau aluminiu.		



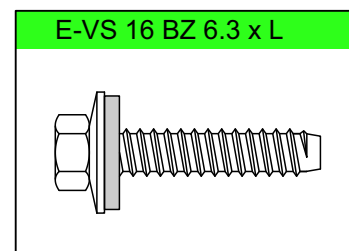
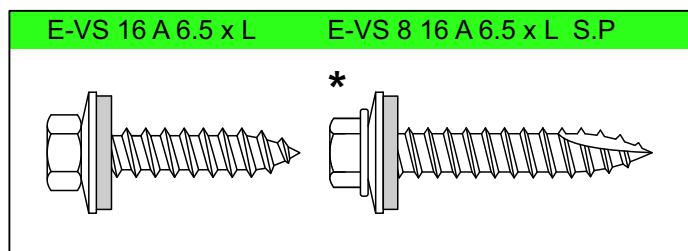
Name	Cu saiba din oțel inox Ø 15 [€ / 100 items]	Antrenare	Capacitate perforare [mm]
Spengler 15 4.5 x 25	10,90	PZ 2 or optional TORX 25	lemn
Spengler 15 4.5 x 35	12,95		
Spengler 15 4.5 x 45	15,00		
Application			
Montaje pe substructuri din lemn.			



Name	Cu sau fara saiba din aluminiu sau inox premontata Ø 19 [€ / 100 items]
Lapstitch 19 10 x 25	29,00
Application	
Fixarea si etansarea placilor de policarbonat la lumnatoare. Surub din oțel inox, corp din cauciuc.	

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Surub autofiletant din otel calit rezistent la coroziune. Otel zincat. Cu sau fara saiba EPDM premontata. Fixari pe sub structura din lemn(notate cu *) sau otel mai gros de 3 mm.



Name	Fara saiba etansare [€ / 100 items]	Cu saiba EPDM montata Ø 16 [€ / 100 items]	Denumire
E-VS 16 A 6.5 x 16	5,40	7,65	E-VS 16 BZ 6.3 x 16
E-VS 16 A 6.5 x 20 *	5,75	8,00	E-VS 16 BZ 6.3 x 20
E-VS 16 A 6.5 x 25 *	7,15	9,40	E-VS 16 BZ 6.3 x 25
E-VS 16 A 6.5 x 32 *	7,85	10,10	E-VS 16 BZ 6.3 x 32
E-VS 16 A 6.5 x 38 *	8,50	10,75	E-VS 16 BZ 6.3 x 38
E-VS 16 A 6.5 x 45 *	9,25	11,50	E-VS 16 BZ 6.3 x 45
E-VS 16 A 6.5 x 50 *	9,55	11,80	E-VS 16 BZ 6.3 x 50
E-VS 16 A 6.5 x 60	11,10	13,35	E-VS 16 BZ 6.3 x 60
E-VS 16 A 6.5 x 65 *	11,45	13,70	E-VS 16 BZ 6.3 x 65
E-VS 16 A 6.5 x 70	11,70	13,95	E-VS 16 BZ 6.3 x 70
E-VS 16 A 6.5 x 75 *	12,55	14,80	E-VS 16 BZ 6.3 x 75
E-VS 16 A 6.5 x 80	12,75	15,00	E-VS 16 BZ 6.3 x 80
E-VS 16 A 6.5 x 85	13,75	16,00	E-VS 16 BZ 6.3 x 85
E-VS 16 A 6.5 x 90 *	14,15	16,40	E-VS 16 BZ 6.3 x 90
E-VS 16 A 6.5 x 100 *	18,10	20,35	E-VS 16 BZ 6.3 x 100
E-VS 16 A 6.5 x 115	19,55	21,80	E-VS 16 BZ 6.3 x 115
E-VS 16 A 6.5 x 130 *	25,40	27,65	E-VS 16 BZ 6.3 x 130
E-VS 16 A 6.5 x 150 *	31,45	33,70	E-VS 16 BZ 6.3 x 150
E-VS 16 A 6.5 x 175 *	38,60	40,85	E-VS 16 BZ 6.3 x 175
E-VS 16 A 6.5 x 200 *	51,10	53,35	E-VS 16 BZ 6.3 x 200
E-VS 16 A 6.5 x 220	67,20	69,45	E-VS 16 BZ 6.3 x 220
E-VS 16 A 6.5 x 240	79,95	82,20	E-VS 16 BZ 6.3 x 240
E-VS 16 A 6.5 x 260	93,10	95,35	E-VS 16 BZ 6.3 x 260

Aplicatii

Fixarea elementelor de inchidere si placare pe substructuri din lemn sau otel cu grosime mai mare de 3.0 mm.

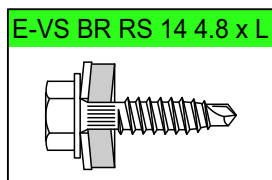
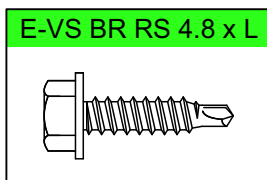
We also offer the screws marked with * in SW 8 mm and cutting thread (S.P) which are suitable for fastening trapezoidal steel sheets of up to 1.0 mm on a wooden substructure without pre-drilling.

Anwendung

Fixarea elementelor de inchidere sau placare pe substructuri din otel cu grosime mai mare de 3 mm.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

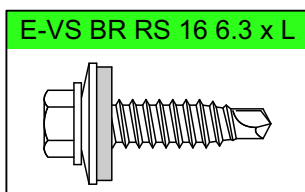
Surub autoperforant din otel calit, rezistent la coroziune, cu sau fara saiba cu EPDM premontata. Otel zincat.



Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPGM premontata Ø 14 [€ / 100 items]	Capacitate perforare performance [mm]
E-VS BOHR RS 4.8 x 19	2,75	-	Coasere table
E-VS BOHR RS 14 4.8 x 20*	-	3,70	

Application

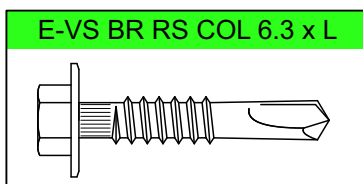
Coasere table. Fixarea longitudinala a tablelor. Please observe the product information on page 22 of our catalogue.



Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPGM premontata Ø 16 [€ / 100 items]	Capacitate perforare performance [mm]
E-VS BOHR RS 16 6.3 x 20	-	4,10	Coasere table
E-VS BOHR RS 16 6.3 x 25	-	5,40	

Application

Coasere table. Fixarea longitudinala a tablelor. Please observe the product information on page 22 of our catalogue.



Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPGM premontata Ø 16 [€ / 100 items]	Capacitate perforare performance [mm]
E-VS BOHR RS COL 6.3 x 22	8,00	-	2 x 1.00
E-VS BOHR RS COL 6.3 x 23	8,00	-	Coasere 2 x 1.25
E-VS BOHR RS COL 6.3 x 32	8,65	-	2 x 1.50

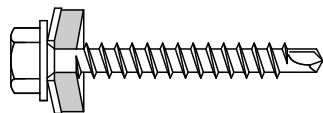
Application

Coasere table. Fixarea longitudinala a tablelor. Please observe the product information on page 23 of our catalogue.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Surub autop perforant din otel calit, rezistent la coroziune, cu sau fara saiba cu EPDM premontata. Otel zincat.

E-VS BR RS 14 4.8 x L

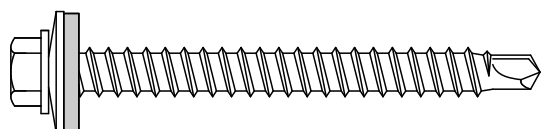


Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPGM premontata Ø 14 [€ / 100 items]	Capacitate perforare performance [mm]
E-VS BOHR RS 14 4.8 x 28	-	5,55	Lemn
E-VS BOHR RS 14 4.8 x 35	-	5,05	
E-VS BOHR RS 14 4.8 x 60	-	7,35	
E-VS BOHR RS 14 4.8 x 80	-	8,15	

Application

Montaje la conexiuni longitudinale, montarea profilelor subturi sau teblelor pe substructuri din lemn.

E-VS BR RS 16 6.5 x L

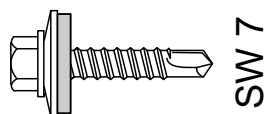


Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPGM premontata Ø 16 [€ / 100 items]	Capacitate perforare performance [mm]
E-VS BOHR RS 16 6.5 x 50	9,50	11,75	Lemn
E-VS BOHR RS 16 6.5 x 70	13,65	15,90	
E-VS BOHR RS 16 6.5 x 90	20,25	22,50	

Application

Montaje pe substructuri din lemn.

E-VS BR 3 14 4.2 x L



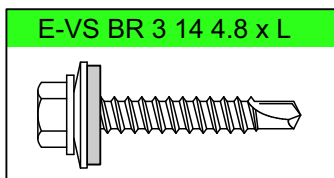
Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPGM premontata Ø 14 [€ / 100 items]	Capacitate perforare performance [mm]
E-VS BOHR 3 14 4.2 x 13	2,45	3,40	2.0
E-VS BOHR 3 14 4.2 x 16	2,75	3,70	
E-VS BOHR 3 14 4.2 x 19	3,80	3,75	
E-VS BOHR 3 14 4.2 x 25	4,30	5,25	
E-VS BOHR 3 14 4.2 x 32	4,80	5,75	

Application

Montaje pe substructuri din otel.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

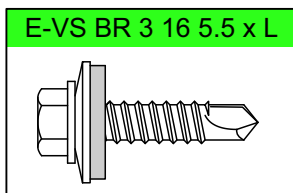
Surub autopercutant din otel calit, rezistent la coroziune, cu sau fara saiba cu EPDM premontata. Otel zincat.



Name	Fara saiba EPDM [€/ 100 items]	Cu saiba EPDM premontata Ø 14 [€/ 100 items]	Capacitate perforare performance [mm]
E-VS BOHR 3 14 4.8 x 13	2,00	2,95	3.0
E-VS BOHR 3 14 4.8 x 16	2,60	2,55	
E-VS BOHR 3 14 4.8 x 19	2,75	2,70	
E-VS BOHR 3 14 4.8 x 22	3,15	4,10	
E-VS BOHR 3 14 4.8 x 25	3,25	4,20	
E-VS BOHR 3 14 4.8 x 32	3,70	4,65	
E-VS BOHR 3 14 4.8 x 38	4,55	5,50	
E-VS BOHR 3 14 4.8 x 45	4,95	5,90	
E-VS BOHR 3 14 4.8 x 50	6,00	6,95	
E-VS BOHR 3 14 4.8 x 60	7,15	7,10	

Application

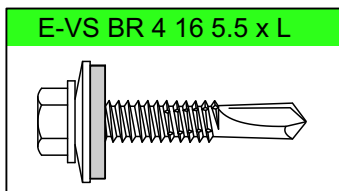
Montaje pe substructuri din otel cu grosime de maxim 3 mm.



Name	Fara saiba EPDM [€/ 100 items]	Cu saiba EPDM premontata Ø 16 [€/ 100 items]	Capacitate perforare performance [mm]
E-VS BOHR 3 16 5.5 x 19	3,15	3,40	5.0
E-VS BOHR 3 16 5.5 x 22	3,65	3,90	
E-VS BOHR 3 16 5.5 x 25	4,05	4,30	
E-VS BOHR 3 16 5.5 x 32	4,95	5,20	
E-VS BOHR 3 16 5.5 x 38	5,95	6,20	
E-VS BOHR 3 16 5.5 x 50	6,30	6,55	
E-VS BOHR 3 16 5.5 x 60	7,55	7,80	

Application

Montaje pe substructuri din otel cu grosime de maxim 5 mm.

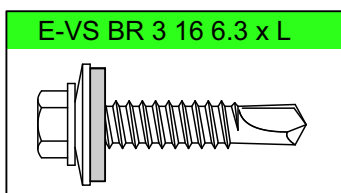


Name	Fara saiba EPDM [€/ 100 items]	Cu saiba EPDM premontata Ø 16 [€/ 100 items]	Capacitate perforare performance [mm]
E-VS BOHR 4 16 5.5 x 24	5,25	6,50	8.0
E-VS BOHR 4 16 5.5 x 26	6,05	7,30	

Application

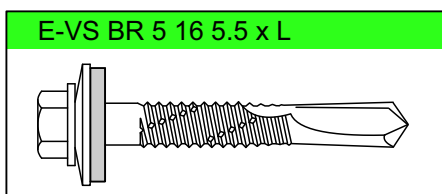
Montaje pe substructuri din otel cu grosime de maxim 8 mm.

Surub autoperforant din otel calit, rezistent la coroziune, cu sau fara saiba cu EPDM premontata. Otel zincat.



Name	Fara saiba EPDM [€/ 100 items]	Cu saiba EPDM premontata Ø 16 [€/ 100 items]	Capacitate perforare performance [mm]
E-VS BOHR 3 16 6.3 x 19	5,80	6,05	6.0
E-VS BOHR 3 16 6.3 x 22	6,60	7,85	
E-VS BOHR 3 16 6.3 x 25	7,10	7,35	
E-VS BOHR 3 16 6.3 x 32	8,25	8,50	
E-VS BOHR 3 16 6.3 x 38	8,40	8,65	
E-VS BOHR 3 16 6.3 x 50	9,15	10,40	8.0
E-VS BOHR 3 16 6.3 x 65	11,60	12,85	
E-VS BOHR 3 16 6.3 x 80	13,10	14,35	
E-VS BOHR 3 16 6.3 x 100	16,65	16,90	
E-VS BOHR 3 16 6.3 x 120	18,70	19,95	
E-VS BOHR 3 16 6.3 x 140	22,00	23,25	
E-VS BOHR 3 16 6.3 x 160	23,30	24,55	

Application
Montaje pe substructuri din otel.

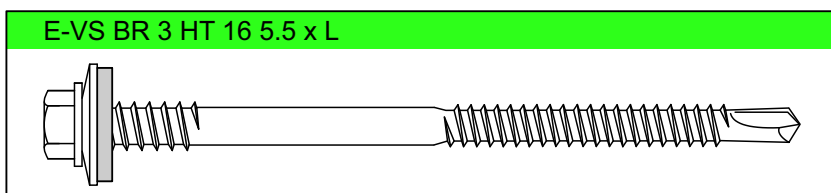


Name	Fara saiba EPDM [€/ 100 items]	Cu saiba EPDM premontata Ø 16 [€/ 100 items]	Capacitate perforare performance [mm]
E-VS BOHR 5 16 5.5 x 32	7,85	10,10	12.5
E-VS BOHR 5 16 5.5 x 38	8,45	10,70	
E-VS BOHR 5 16 5.5 x 51	12,85	13,10	
E-VS BOHR 5 16 5.5 x 67	14,55	14,80	
E-VS BOHR 5 16 5.5 x 76	17,25	18,50	
E-VS BOHR 5 16 5.5 x 85	19,95	20,20	
E-VS BOHR 5 16 5.5 x 100	20,05	22,30	
E-VS BOHR 5 16 5.5 x 115	27,60	29,85	
E-VS BOHR 5 16 5.5 x 130	33,05	35,30	
E-VS BOHR 5 16 5.5 x 150	35,40	37,65	

Application
Montaje pe substructuri din otel.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

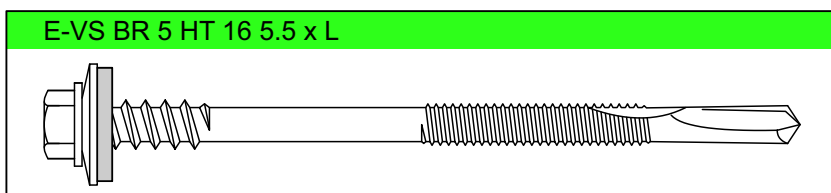
Surub autopercutant din oțel calit, rezistent la coroziune, cu sau fara saiba cu EPDM premontata. Oțel zincat.



Name	Fara saiba EPDM [€/ 100 items]	Cu saiba EPDM premontata Ø 16 [€/ 100 items]	Capacitate perforare performance [mm]	Pachet de prindere Grosime panou [mm]
E-VS BOHR 3 HT 16 5.5 x 60	-	8,25	5.0	25 - 40
E-VS BOHR 3 HT 16 5.5 x 65	-	9,90		25 - 45
E-VS BOHR 3 HT 16 5.5 x 80	-	10,80		40 - 60
E-VS BOHR 3 HT 16 5.5 x 98	-	12,65		50 - 78
E-VS BOHR 3 HT 16 5.5 x 120	-	14,20		60 - 100
E-VS BOHR 3 HT 16 5.5 x 130	-	18,45		70 - 110
E-VS BOHR 3 HT 16 5.5 x 150	-	23,20		70 - 130
E-VS BOHR 3 HT 16 5.5 x 180	-	34,55		100 - 160
E-VS BOHR 3 HT 16 5.5 x 200	-	44,10		120 - 180
E-VS BOHR 3 HT 16 5.5 x 230	-	56,25		150 - 210

Application

Montajul panourilor termoizolante pe structuri din oțel mai subtiri de 5 mm.



Name	Fara saiba EPDM [€/ 100 items]	Cu saiba EPDM premontata Ø 16 [€/ 100 items]	Capacitate perforare performance [mm]	Pachet de prindere Grosime panou [mm]
E-VS BOHR 5 HT 16 5.5 x 75	-	9,50	12.5	25 - 35
E-VS BOHR 5 HT 16 5.5 x 85	-	13,55		38 - 46
E-VS BOHR 5 HT 16 5.5 x 105	-	16,75		38 - 64
E-VS BOHR 5 HT 16 5.5 x 130	-	21,55		61 - 90
E-VS BOHR 5 HT 16 5.5 x 140	-	24,25		71 - 100
E-VS BOHR 5 HT 16 5.5 x 150	-	27,05		61 - 110
E-VS BOHR 5 HT 16 5.5 x 160	-	29,25		70 - 120
E-VS BOHR 5 HT 16 5.5 x 175	-	31,45		85 - 135
E-VS BOHR 5 HT 16 5.5 x 190	-	42,80		100 - 150
E-VS BOHR 5 HT 16 5.5 x 210	-	54,40		130 - 180
E-VS BOHR 5 HT 16 5.5 x 240	-	74,25		152 - 200
E-VS BOHR 5 HT 16 5.5 x 285	1-	97,10		200 - 245

Application

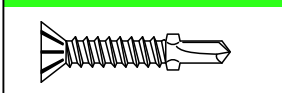
Montajul panourilor termoizolante pe structuri din oțel mai subtiri de 12,5 mm.

La pagina 9 este explicat si desenat conceptul de pachet de prindere (grosime pachet), ainaltime element de fixare, fixarea pe varful cutei sau fixarea sub cuta panoului.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Surub autoprotent din otel zincat, rezistent la coroziune, cu cap zenc si aripioare.
Rizuri sub cap.

E-VS BR 2 FLT 4.2 x L

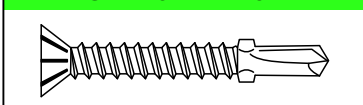


Name	Price [€ / 100 items]	Drive	Capacitate perforare performance [mm]	Grosime lemn [mm]
E-VS BOHR 2 FLT 4.2 x 25	2,70	PH 2	2.5	9

Application

Pentru fixarea rapida a elementelor din lemn pe substructuri din otel cu grosime mai mare de 1 mm.

E-VS BR 3 FLT 4.8 x L

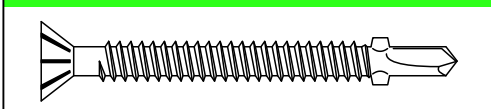


Name	Price [€ / 100 items]	Drive	Capacitate perforare performance [mm]	Grosime lemn [mm]
E-VS BOHR 3 FLT 4.8 x 32	3,00	PH 2	3.5	12
E-VS BOHR 3 FLT 4.8 x 38	3,20			18
E-VS BOHR 3 FLT 4.8 x 45	4,50			25
E-VS BOHR 3 FLT 4.8 x 50	5,55			30

Application

Pentru fixarea rapida a elementelor din lemn pe substructuri din otel cu grosime mai mare de 1,25 mm..

E-VS BR 3 FLT 5.5 x L

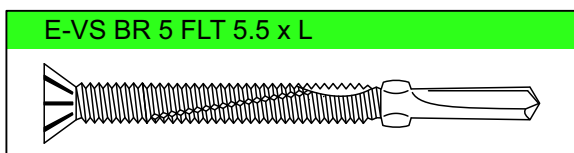


Name	Price [€ / 100 items]	Drive	Capacitate perforare performance [mm]	Grosime lemn [mm]
E-VS BOHR 3 FLT 5.5 x 38	6,10	PH 3	5.0	13
E-VS BOHR 3 FLT 5.5 x 55	6,75			30
E-VS BOHR 3 FLT 5.5 x 60	8,25			35
E-VS BOHR 3 FLT 5.5 x 85	14,30			60
E-VS BOHR 3 FLT 5.5 x 109	18,70			84
E-VS BOHR 3 FLT 5.5 x 130	20,70			105
E-VS BOHR 3 FLT 5.5 x 150	22,75			125

Application

Pentru fixarea rapida a elementelor din lemn pe substructuri din otel cu grosime mai mare de 1 mm. 1.25 mm.

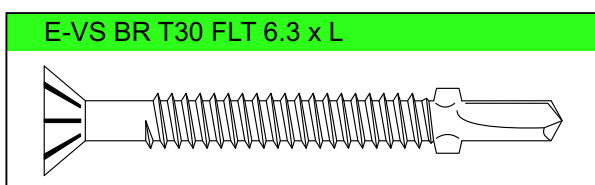
Surub autoperforant din otel zincat, rezistent la coroziune, cu cap zenc si aripioare.
Rizuri sub cap.



Name	Price [€ / 100 items]	Drive	Capacitate perforare performance [mm]	Grosime lemn [mm]
E-VS BOHR 5 FLT 5.5 x 60	17,55	PH 3	12.5	27
E-VS BOHR 5 FLT 5.5 x 85	23,70			52
E-VS BOHR 5 FLT 5.5 x 109	27,45			76
E-VS BOHR 5 FLT 5.5 x 130	33,10			97
E-VS BOHR 5 FLT 5.5 x 150	35,65			117

Application

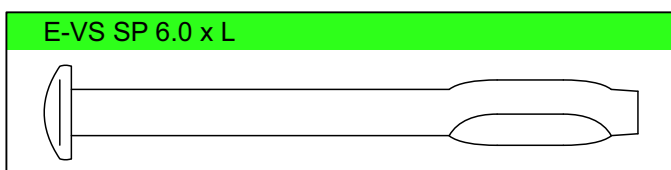
Pentru fixarea rapida a elementelor din lemn pe substructuri din otel cu grosime mai mare de 1,25 mm.



Name	Price [€ / 100 items]	Drive	Capacitate perforare performance [mm]	Grosime lemn [mm]
E-VS BOHR T30 FLT 6.3 x 45	8,10	T 30	6.0	10 - 20
E-VS BOHR T30 FLT 6.3 x 50	9,30			12 - 28
E-VS BOHR T30 FLT 6.3 x 60	12,00			12 - 36
E-VS BOHR T30 FLT 6.3 x 70	13,95			15 - 45
E-VS BOHR T30 FLT 6.3 x 80	15,45			25 - 57
E-VS BOHR T30 FLT 6.3 x 100	16,80			35 - 75

Application

Pentru fixarea rapida a elementelor din lemn pe substructuri din otel cu grosime mai mare de 1,25 mm.



Name	Fara saiba [€ / 100 items]	Cu saiba din otel zincat Ø 19 [€ / 100 items]	Pachet de prindere maxim [mm]
E-VS SP 6.0 x 40	11,60	15,65	< 10
E-VS SP 6.0 x 135	23,20	27,25	< 105
E-VS SP 6.0 x 155	25,60	29,65	< 125
E-VS SP 6.0 x 185	29,70	33,75	< 155

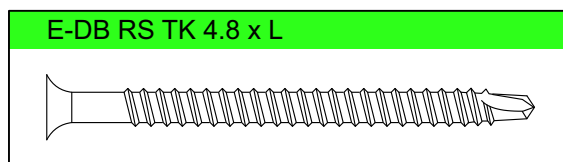
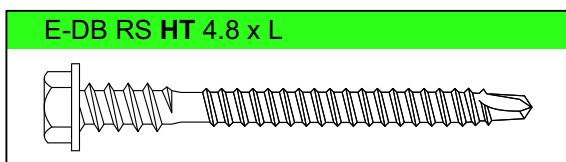
Application

Pentru fixari rapide pe structuri din beton. Necesita gaurire d = Ø 6.0 mm, adancime gaura mai mare de 30 mm .

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Mirad Tehnic - Fixari si etansari in constructii

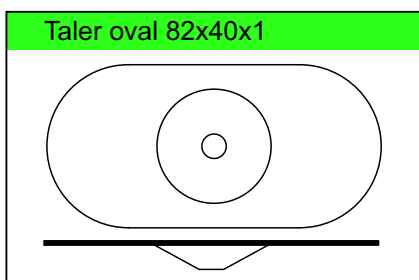
Suruburi autoperforante din otel zincat, cu acoperire organica anticoroziva.



Name	Price [€ / 100 items]	Name
E-DB RS 4.8 x 50	4,80	E-DB RS TK 4.8 x 50
E-DB RS 4.8 x 60	7,15	_____
E-DB RS HT 4.8 x 60	12,95	_____
E-DB RS 4.8 x 70	8,95	E-DB RS TK 4.8 x 70
E-DB RS 4.8 x 80	10,95	E-DB RS TK 4.8 x 80
E-DB RS HT 4.8 x 80	12,50	_____
_____	19,15	E-DB RS TK 4.8 x 90
E-DB RS HT 4.8 x 100	16,35	E-DB RS TK 4.8 x 100
E-DB RS 4.8 x 110	14,25	E-DB RS TK 4.8 x 110
E-DB RS HT 4.8 x 120	20,95	E-DB RS TK 4.8 x 120
E-DB RS 4.8 x 130	18,25	E-DB RS TK 4.8 x 130
E-DB RS HT 4.8 x 140	26,55	E-DB RS TK 4.8 x 140
E-DB RS 4.8 x 150	27,55	E-DB RS TK 4.8 x 150
E-DB RS HT 4.8 x 160	41,90	_____
E-DB RS HT 4.8 x 180	53,20	_____
E-DB RS HT 4.8 x 200	62,50	_____
E-DB RS HT 4.8 x 220	77,55	_____
E-DB RS HT 4.8 x 240	89,75	_____
E-DB RS HT 4.8 x 260	101,40	_____
E-DB RS HT 4.8 x 280	116,35	_____
E-DB RS HT 4.8 x 300	132,65	_____

Application

Fixarea mecanica a termohidroizolatiilor si altor izolatii pe lemn, tabla cutata sau tabla trapezoidala.
Capacitate de perforare 2 x 1.0 mm thick.



Name	Price [€ / 100 items]
stress plate, oval 82 x 40 x 1 HT	10,90
stress plate, oval 82 x 40 x 1 TK	10,90
stress plate, round 50 x 0.50	4,90

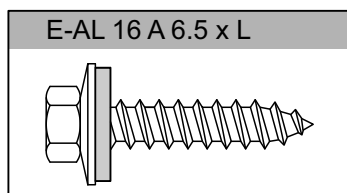
Application

Fixarea mecanica a materialelor izolatoare pe fatade sau acoperis plan.

Pentru fixari mecanice la termohidroizolatii, va putem oferi gama **SFS Intec - Guardian**. Solicitati oferta reprezentantului nostru sau la info@mirad-tehnic.ro.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

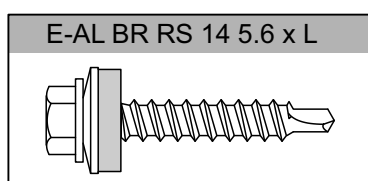
Suruburi speciale autofiletante si autopercorante din aluminiu F44 cu sau fara saiba din aluminiu cu EPDM premontata.



Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPDM aluminiu Ø 16 [€ / 100 items]
E-AL 16 A 6.5 x 20	6,75	9,25
E-AL 16 A 6.5 x 25	7,65	10,15
E-AL 16 A 6.5 x 32	8,15	10,65
E-AL 16 A 6.5 x 38	8,30	10,80
E-AL 16 A 6.5 x 50	8,45	10,95
E-AL 16 A 6.5 x 60	11,15	13,65
E-AL 16 A 6.5 x 65	12,35	14,85
E-AL 16 A 6.5 x 70	13,70	16,20
E-AL 16 A 6.5 x 75	15,22	17,75
E-AL 16 A 6.5 x 80	17,20	19,70
E-AL 16 A 6.5 x 90	20,05	22,55

Application

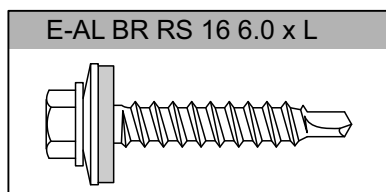
Fixarea profilelor sau tablelor din aluminiu pe substructuri din aluminiu sau lemn. Necesita pregaurire.



Name	Fara saiba EPDM [€ / 100 items]	Cu saiba EPDM aluminiu Ø 14 [€ / 100 items]	max. drilling performance [mm]
E-AL BOHR RS 14 5.6 x 19	11,60	13,80	Wooden
E-AL BOHR RS 14 5.6 x 35	14,85	17,05	

Application

Fixarea profilelor sau tablelor din aluminiu pe substructuri din aluminiu sau lemn.



Name	Fara saiba EPDM [€ / 100 items]	With Aluminium washer Ø 16 [€ / 100 items]	max. drilling performance [mm]
E-AL BOHR RS 16 6.0 x 35	15,45	17,95	Wooden

Application

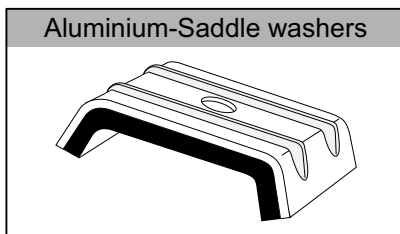
Fixarea profilelor sau tablelor din aluminiu pe substructuri din aluminiu sau lemn.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

Calota rigidizare cuta

END

Calota de rigidizare din aluminiu cu garnitura EPDM. Pentru fixarea sigura a tablelor si panourilor termoizolante, a panourilor pentru luminatoare, etc.

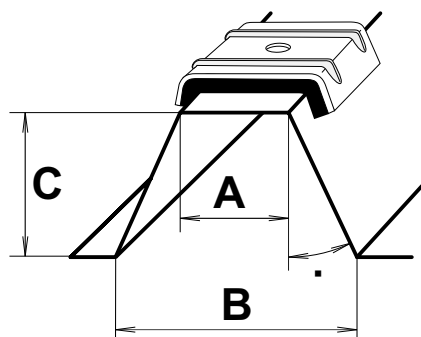


Name	Latime cuta sup. [mm]	Unghiul cutei	Aluminiu natur [€ / 100 items]	Vopsite RAL [€ / 100 items]	
R 38	19/34	19	34°	15,45	18,55
G 4	20/32	20	32°	15,45	18,55
30/200	20/29	20	29°	15,45	18,55
N 1000 T	23/30	23	30°	16,35	19,60
ROMA D	24/22	24	22°	15,45	18,55
30/153	24/30	24	30°	15,45	18,55
TRP 20	24/32	24	32°	16,35	19,60
150/45	25/27	25	27°	16,35	19,60
100/24	28/35	28	35°	16,35	19,60
MONTANA THERM	30/22	30	22°	18,90	22,70
TRP 40	30/27	30	27°	18,90	22,70
KINGSPAN	31/23	31	23°	18,90	22,70
40/167	34/23	34	23°	18,90	22,70
35/203	36/36	36	36°	20,65	24,80
40/183	40/17	40	17°	20,65	24,80
35/207	40/36	40	36°	20,65	24,80
EKO 50	42/44	42	44°	24,05	28,90
SAB 52	50/42	50	42°	24,05	28,90
50/250	57/18	57	18°	24,05	28,90
WAVE 18/76		Radius 24		15,45	18,55
WAVE 150/50		Radius 30		20,65	24,80
WAVE 130/30		Radius 40		20,65	24,80
WAVE 177/55		Radius 48		24,05	28,90

Application

Calota de rigidizare, se utilizeaza impreuna cu surubul pentru panou corespunzator pentru fixarea sigura a panourilor sandwich, a tablelor cutate din otel sau aluminiu, a panourilor de luminator.. Surubul are intotdeauna saiba de 16 mm premontata.

To determine the correct saddle washer profile, we require details as shown in the figure below.



- A** Upper flange width
- B** Inner width on lower flange
- C** Profile height
- OR
- A** Upper flange width
- Profile angle

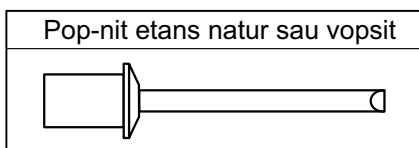
Other profiles on request

Permanently elastic

Non-ageing

Securely sealed

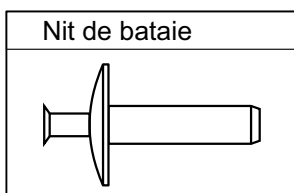
Nituri pop ALU/Ot, nituri de bataie of ALU/Ot.



Name	Price [€ / 100 items]	Pachet de prindere from - to [mm]	Diametru pregaurire [mm]
ALU/NIRO 4.8 x 11	5,45	5.0 - 6.5	4.9
ALU/NIRO 6.4 x 12	8,00	6.5 - 8.0	6.6

Application

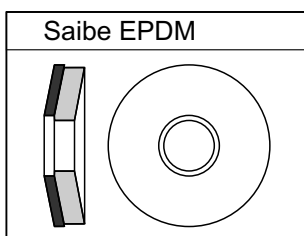
Se pot livra o gama foarte mare de nituri pot STANDARD, ETANSE, cu GULER, cu FISURARE, etc. din aluminiu, otel, INOX,. Natur sau vopsite RAL.



Name	Price [€ / 100 items]	Clamping area [mm]
ALU/NIRO 5.0 x 20	8,50	bis 5.0

Application

Fixarea substructurilor din aluminiu sau otel pe beton, zidarie, etc. Se solicita probe.



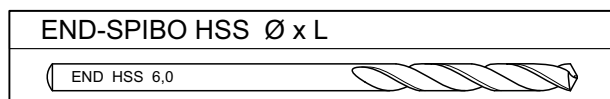
Material	Ø 12 mm	Ø 14 mm	Ø 16 mm	Ø 19 mm	Ø 22 mm	Ø 25 mm	Ø 29 mm
INOX	3,10	3,75	4,45	5,75	8,10	10,95	13,55
ALUMINIUM	2,30	2,80	3,25	4,30	5,85	8,10	10,25
GALVANISED	2,15	2,60	3,05	4,05	5,50	7,65	9,65

The inner diameter is tailored to the screw diameter.

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

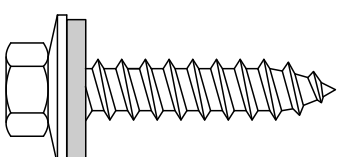
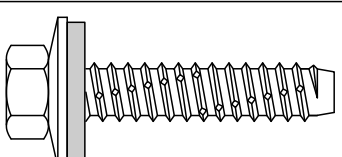
Mirad Tehnic - Fixari si etansari in constructii

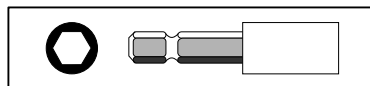
HSS spiral drill with point thinning, right-hand cutting, spiral length up to 30 mm.
Price in € per item.



Ø \ mm	66	90	135	185	205	260	280	mm \ Ø
3.0	1,20	1,80	2,10	-	-	-	-	3.0
3.1	1,25	-	2,15	-	-	-	-	3.1
3.3	1,25	-	2,15	-	-	-	-	3.3
3.5	1,25	1,80	2,15	-	-	-	-	3.5
4.0	1,40	-	2,70	-	-	-	-	4.0
4.1	1,40	1,80	2,75	-	-	-	-	4.1
4.2	1,40	1,85	2,75	-	-	-	-	4.2
4.3	-	1,85	-	-	-	-	-	4.3
4.5	1,50	1,85	3,20	-	-	-	-	4.5
4.7	1,50	2,15	3,20	-	-	-	-	4.7
4.8	1,70	2,15	3,30	-	-	-	-	4.8
4.9	1,70	2,15	3,30	-	-	-	-	4.9
5.0	1,70	2,15	3,45	7,10	8,75	9,60	10,00	5.0
5.1	1,70	2,15	3,55	-	-	-	-	5.1
5.2	1,70	2,15	3,55	-	8,75	-	-	5.2
5.3	1,95	2,15	3,55	7,10	8,75	9,60	-	5.3
5.4	-	-	-	-	-	-	-	5.4
5.5	1,95	2,45	3,55	7,10	8,75	9,60	12,70	5.5
5.6	1,95	2,45	3,55	-	-	-	-	5.6
5.7	1,95	2,45	4,00	7,10	8,75	10,25	13,30	5.7
5.8	1,95	2,45	4,00	7,10	8,75	10,25	13,30	5.8
5.9	1,95	2,45	4,00	7,10	8,75	10,25	13,30	5.9
6.0	1,95	2,45	4,00	7,10	9,60	-	-	6.0
6.5	2,25	-	-	-	-	-	-	6.5
Ø \ mm	66	90	135	185	205	260	280	mm \ Ø

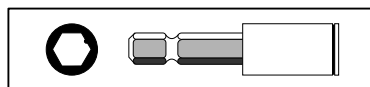
Tabel pregauriri

Thread type	Beam thickness St 37	Drill diameter	
A 	Wood 0.63 mm 0.75 mm 0.88 - 1.25 mm 1.5 - 3.0 mm	4.8 mm 3.5 mm 4.0 mm 4.5 mm 5.0 mm	In accordance with the approval the figures relate to steel, S235Jxx acc. to DIN EN 10 025 S280GD+xx or S320GD+xx acc. to DIN EN 10 147
BZ 	1.25 - 1.5 mm 2.0 - 4.0 mm 4.0 - 6.0 mm ab 7.0 mm	5.0 mm 5.3 mm 5.5 mm 5.7 mm	



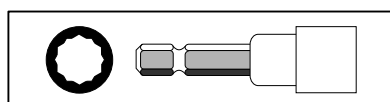
Cheie coada 1/4", in SW3/8" or Sw8

€ per items 2.40



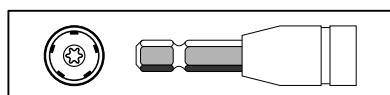
Cheie coada 1/4", cu inel de retinere SW3/8" or SW8
sau cheie magnetica Sw8, Sw10, Sw13, SW17

€ per items 670



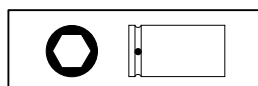
Socket with drivebar 1/4" for BI-HEX, SW 11

€ per items



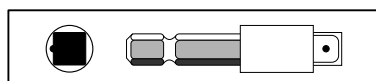
Clamp follower T25 1/4", for TORX 25

€ per items 22,00



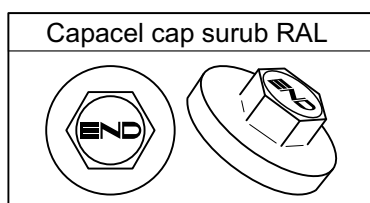
Wrench insert 1/4", in 3/8" or 1/2", in SW3/8" or Sw8

€ per items 5,70



Drivebar only 1/4" x 3/8"

€ per items



Capacel cap surub RAL

SW 8, Diameter 19 mm

€ per 100 items 1,85

SW 3/8", Diameter 19 mm

€ per 100 items 1,85

SW 3/8", Diameter 25 mm

€ per 100 items 3,60

SW 3/8", Diameter 29 mm

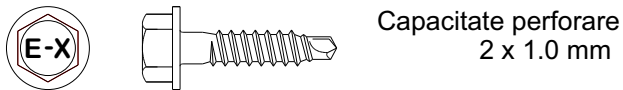
€ per 100 items 3,60

Preturile sunt exprimate in euro/UM, fara TVA. Preturi de lista. Suporta discounturi.

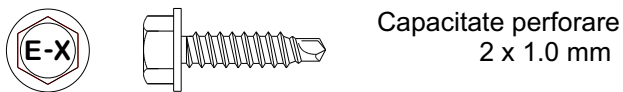
Stitching screws



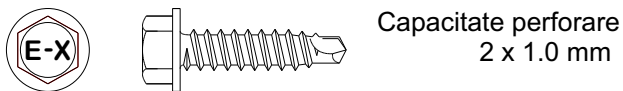
Otel inoxidabil (E-X[®])



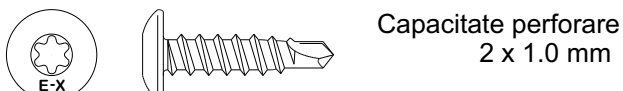
E-X BR RS 4.8 x 20



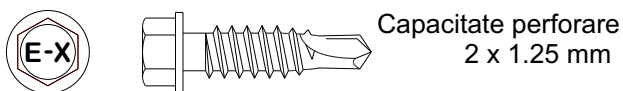
E-X BR RS 4.8 x 19



E-X BR RS 5.5 x 22 / ... 38

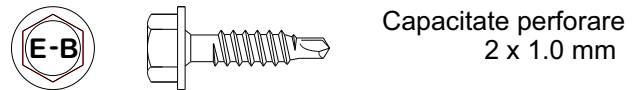


E-X T25 BR RS 5.5 x 22 / ... 38

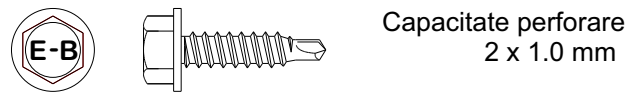


E-X BR RS 6.3 x 25

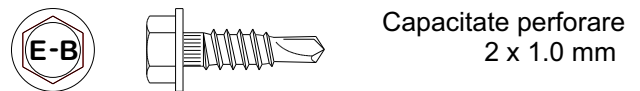
Otel calit zincat (E-VS[®])



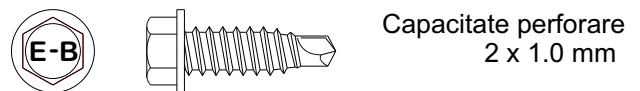
E-VS BR RS 4.8 x 20 / ...28



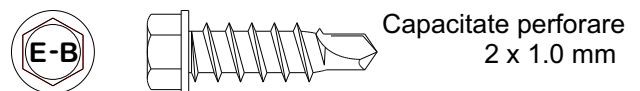
E-VS BR RS 4.8 x 19



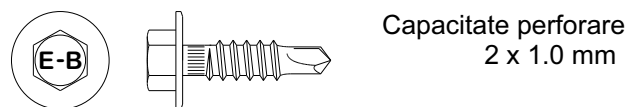
E-VS8 BR RS 5.5 x 20 / ... 28



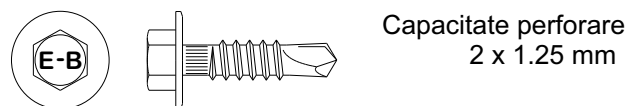
E-VS8 BR RS 6.3 x 19 / ... 25



E-VS BR RS 7.8 x 25

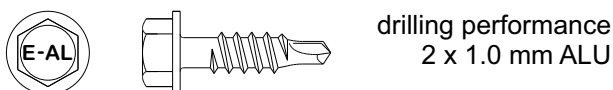


E-VS BR RS COL 6.3 x 22

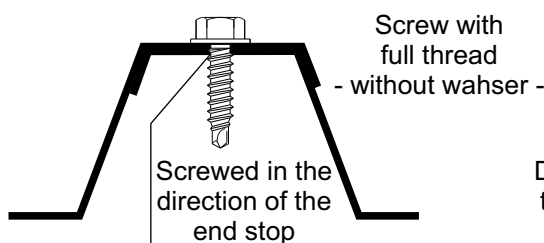


E-VS BR RS COL 6.3 x 23

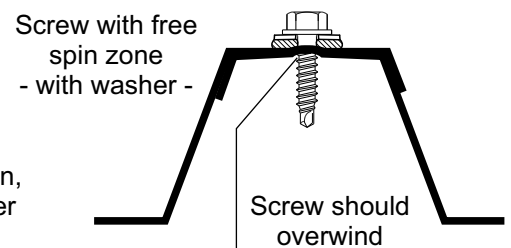
Aluminium (E-AL[®])



E-AL BR RS 5.6 x 20



Depending on the application, these screws are used either with or without a washer.



Im Zulassungsbescheid Z-14.4 - 407, Blatt 4.5

Verbindungs-element Bohrschraube
E-X Bohr RS HT 6,5 x L
Dichtscheibe ≥ 16 mm

Werkstoffe Schraube
nichtrostender Stahl,
Werkst.-Nr.: 1.4301

Scheibe
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
mit aufvulkanisierter
EPDM-Dichtung

Bauteil II, Nadelholz Sortierklasse S10 nach DIN 4074-1								
Sandwichdicke d oder D in mm	40	50	60	70	80	≥ 100		
	Verschraubung anschlagorientiert verschrauben							
Einschraubtiefe	t _{ef} ≥ 50 mm einschließlich Bohrspitze						Belastungsart	
Bauteil I, Blechdicke t _{bl} bzw t _{blz} in mm S280 GD+xx bis S350 GD+xx nach DIN EN 10326	0,50	0,90	0,90	0,90	0,90	0,90		0,90
	0,55	1,00	1,00	1,00	1,00	1,00	1,00	
	0,63	1,10	1,10	1,10	1,10	1,10	1,10	
	0,75	1,10	1,10	1,10	1,10	1,10	1,10	
	≥ 0,88	1,10	1,10	1,10	1,10	1,10	1,10	
	Bei t _{blz} aus S320 GD dürfen alle Werte um 8,2% erhöht werden. Bei t _{blz} aus S350 GD dürfen alle Werte um 16,7% erhöht werden.							
0,50	2,00	2,00	2,00	2,00	2,00	2,00	<p>Zugkraft N_{Rk} in kN</p>	
0,55	2,00	2,00	2,00	2,00	2,00	2,00		
0,63	2,00	2,00	2,00	2,00	2,00	2,00		
0,75	2,00	2,00	2,00	2,00	2,00	2,00		
0,88	2,00	2,00	2,00	2,00	2,00	2,00		
1,00	2,00	2,00	2,00	2,00	2,00	2,00		
Maximale Kopfauslenkung U Sandwichdicke d oder D in mm	40	5	6	7	8	9	16	<p>Maximale Kopfauslenkung U, in mm</p>
	50	5	6	7	8	9	16	
	60	5	6	7	8	9	16	
	70	5	6	7	8	9	16	
	80	5	6	7	8	9	16	
	≥ 100	5	6	7	8	9	16	

Im Zulassungsbescheid Z-14.4 - 407, Blatt 2.20

Verbindungs-element Bohrschraube
E-X Bohr 3 HT 5,5 x L
Dichtscheibe ≥ 16 mm

Werkstoffe Schraube
nichtrostender Stahl,
Werkst.-Nr.: 1.4301

Scheibe
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
mit aufvulkanisierter
EPDM-Dichtung

Bauteil II, Stahl mit t_{bl} in mm, S235Jxx nach DIN EN 10025-2, S280GD+xx oder S320GD+xx nach DIN EN 10326								
Blechdicke [mm]	D [mm]	1,5	2,0	2,5	3,0	4,0		
	Verschraubung anschlagorientiert verschrauben							
Bauteil I, Blechdicke t _{bl} bzw t _{blz} in mm S280 GD+xx bis S350 GD+xx nach DIN EN 10326	≥ 0,50	40	0,80	0,80	0,80	0,80	0,90	<p>Querkraft V_{Rk} in kN</p>
	≥ 0,50	60	1,00	1,10	1,20	1,20	1,30	
Bei t _{blz} aus S320 GD dürfen alle Werte um 8,2% erhöht werden. Bei t _{blz} aus S350 GD dürfen alle Werte um 16,7% erhöht werden.								
0,50	/	2,10	2,20	2,20	2,20	2,20	2,20	<p>Zugkraft N_{Rk} in kN</p>
0,55	/	2,10	2,60	2,60	2,60	2,60	2,60	
0,63	/	2,10	3,00	3,00	3,00	3,00	3,00	
0,75	/	2,10	3,20	3,70	3,70	3,70	3,70	
0,88	/	2,10	3,20	3,80	3,80	3,80	3,80	
1,00	/	2,10	3,20	4,00	4,00	4,00	4,00	
Maximale Kopfauslenkung U Sandwichdicke d oder D in mm	40	10,0	3,5	3,5	3,5	3,5	3,5	<p>Maximale Kopfauslenkung U, in mm</p>
	50	12,5	4,5	4,5	4,5	4,5	4,5	
	60	15,0	6,0	6,0	6,0	6,0	5,8	
	70	17,5	7,5	7,5	7,5	7,5	7,3	
	80	20,0	9,0	9,0	9,0	9,0	8,8	
	≥ 100	20,0	12,0	12,0	12,0	12,0	11,7	

maximale Durchdringung Σ (t_{blz} + t) 5,5 mm

Im Zulassungsbescheid Z-14.4 - 407, Blatt 2.21

Verbindungs-element Bohrschraube
E-X Bohr 5 HT 5,5 x L
Dichtscheibe ≥ 16 mm

Werkstoffe Schraube
nichtrostender Stahl,
Werkst.-Nr.: 1.4301

Scheibe
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
mit aufvulkanisierter
EPDM-Dichtung

Bauteil II, Stahl mit t_{bl} in mm, S235Jxx nach DIN EN 10025-2, S280GD+xx oder S320GD+xx nach DIN EN 10326								
Blechdicke [mm]	D [mm]	3,0	4,0	5,0	6,0	≥ 10,0		
	Verschraubung anschlagorientiert verschrauben							
Bauteil I, Blechdicke t _{bl} bzw t _{blz} in mm S280 GD+xx bis S350 GD+xx nach DIN EN 10326	≥ 0,50	40	1,00	1,00	1,10	1,10	1,20	<p>Querkraft V_{Rk} in kN</p>
	≥ 0,50	60	1,00	1,00	1,10	1,20	1,30	
Bei t _{blz} aus S320 GD dürfen alle Werte um 8,2% erhöht werden. Bei t _{blz} aus S350 GD dürfen alle Werte um 16,7% erhöht werden.								
0,50	/	2,40	2,40	2,40	2,40	2,40	2,40	<p>Zugkraft N_{Rk} in kN</p>
0,55	/	2,60	2,60	2,60	2,60	2,60	2,60	
0,63	/	3,00	3,00	3,00	3,00	3,00	3,00	
0,75	/	3,60	3,60	3,60	3,60	3,60	3,60	
0,88	/	4,20	4,20	4,20	4,20	4,20	4,20	
1,00	/	4,70	4,70	4,70	4,70	4,70	4,70	
Maximale Kopfauslenkung U Sandwichdicke d oder D in mm	40	3,5	3,0	3,0	3,0	3,0	3,0	<p>Maximale Kopfauslenkung U, in mm</p>
	50	5,0	5,0	5,0	5,0	5,0	5,0	
	60	6,0	6,0	6,0	6,0	6,0	6,0	
	70	7,5	7,5	7,5	7,5	7,5	7,5	
	80	9,0	9,0	9,0	9,0	9,0	9,0	
	≥ 100	12,0	12,0	12,0	12,0	12,0	12,0	

maximale Durchdringung Σ (t_{blz} + t) 14 mm

Im Zulassungsbescheid Z-14.4 - 407, Blatt 5.5		Bauteil II, Nadelholz Sortierklasse S10 nach DIN 4074-1								
	<p>Verbindungs- element E-X A 6,5 x L Dichtscheibe ≥ 16 mm</p> <p>Werkstoffe Schraube nichtrostender Stahl, Werkst.-Nr.: 1.4301</p> <p>Scheibe nichtrostender Stahl, Werkst.-Nr.: 1.4301 mit aufvulkanisierter EPDM-Dichtung</p>	Sandwichdicke d oder D in mm	30	40	50	60	80	≥ 100	Belastungsart	
		\varnothing Bohrloch [mm]	4,8							<p>Querkraft V_{Rk} in kN</p>
		Einschraubtiefe	$t_{ef} \geq 45$ mm							
<p>Bauteil I, Blechdicke t_{N1}, bzw. t_{N2} in mm S280 GD+xx bis S350 GD+xx nach DIN EN 10326</p>		0,50	0,60	0,60	0,60	0,60	0,60	0,60	<p>Querkraft V_{Rk} in kN</p>	
		0,55	0,70	0,70	0,70	0,70	0,70	0,70		
		0,63	0,80	0,80	0,80	0,80	0,80	0,80	<p>Zugkraft N_{Rk} in kN</p>	
		0,75	0,80	0,80	0,80	0,80	0,80	0,80 ^a		
		0,88	0,80	0,80	0,80	0,80	0,80	0,80 ^a	<p>Maximale Kopfauslenkung U, in mm</p>	
		1,00	0,80	0,80	0,80	0,80	0,80	0,80 ^a		
		a) Bei t_{N2} aus S320 GD dürfen die Werte V_{Rk} um 0,10 kN erhöht werden.								
		0,50	1,60	1,60	1,60	1,60	1,60	1,60	<p>Maximale Kopfauslenkung U, in mm</p>	
		0,55	1,90 ^b	1,90 ^b	1,90 ^b	1,90 ^b	1,90 ^b	1,90 ^b		
		0,63	2,30 ^b	2,30 ^b	2,30 ^b	2,30 ^b	2,30 ^b	2,30 ^b	<p>Maximale Kopfauslenkung U, in mm</p>	
		0,75	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b		
		0,88	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b	<p>Maximale Kopfauslenkung U, in mm</p>	
		1,00	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b	2,80 ^b		
		b) Bei t_{N1} aus S320 GD dürfen die Werte N_{Rk} um 8,2% erhöht werden.								
			4	6	7	9	13	18		

Im Zulassungsbescheid Z-14.4 - 407, Blatt 3.8		Bauteil II, Stahl mit t_{N1} in mm, S235Jxx nach DIN EN 10025-2, S280GD+xx oder S320GD+xx nach DIN EN 10326									
	<p>Verbindungs- element E-X BZ 6,3 x L Dichtscheibe ≥ 16 mm</p> <p>Werkstoffe Schraube nichtrostender Stahl, Werkst.-Nr.: 1.4301</p> <p>Scheibe nichtrostender Stahl, Werkst.-Nr.: 1.4301 mit aufvulkanisierter EPDM-Dichtung</p>	t_{N1} [mm]	1,25	1,5	2,0	2,5	3,0	4,0	$\geq 6,0$	Belastungsart	
		\varnothing Bohrloch [mm]	5,0	5,3					5,5 bzw. 5,7 bei $\geq 7,0$		<p>Querkraft V_{Rk} in kN</p>
		Verschraubung	anschlagorientiert verschrauben								
<p>Bauteil I, Blechdicke t_{N1}, bzw. t_{N2} in mm S280 GD+xx bis S350 GD+xx nach DIN EN 10326</p>		0,50	0,70	0,70	0,70	0,70	0,70	0,70	<p>Querkraft V_{Rk} in kN</p>		
		0,55	0,80	0,80	0,80	0,80	0,80	0,80		0,80	
		0,63	1,00	1,00 ^a	1,10 ^a	1,10 ^a	1,10 ^a	1,20 ^a	1,20 ^a	<p>Zugkraft N_{Rk} in kN</p>	
		0,75	1,10	1,20 ^a	1,30 ^a	1,40 ^a	1,50 ^a	1,50 ^a	1,60 ^b		
		a) Bei t_{N2} aus S320 GD dürfen diese Werte um 0,10 kN erhöht werden. b) Bei t_{N1} aus S320 GD dürfen diese Werte um 0,20 kN erhöht werden.									
		0,50	1,20	1,60 ^b	2,10 ^a	2,10 ^a	2,10 ^a	2,10 ^a	2,10 ^a	<p>Maximale Kopfauslenkung U, in mm</p>	
		0,55	1,20	1,60 ^b	2,30 ^a	2,30 ^a	2,30 ^a	2,30 ^a	2,30 ^a		
		0,63	1,20	1,60 ^b	2,60 ^a	2,60 ^a	2,60 ^a	2,60 ^a	2,60 ^a	<p>Maximale Kopfauslenkung U, in mm</p>	
		0,75	1,20	1,60 ^b	2,80 ^b	3,00 ^a	3,00 ^a	3,00 ^a	3,00 ^a		
		0,88	1,20	1,60 ^b	2,80 ^b	3,40 ^b	3,40 ^b	3,40 ^b	3,40 ^b	<p>Maximale Kopfauslenkung U, in mm</p>	
		1,00	1,20	1,60 ^b	2,80 ^b	3,60 ^c	3,60 ^c	3,60 ^c	3,60 ^c		
		a) Bei t_{N1} aus S320 GD dürfen diese Werte um 0,10 kN erhöht werden. b) Bei t_{N1} , bzw. t_{N2} aus S320 GD dürfen diese Werte um 0,20 kN erhöht werden. c) Bei t_{N1} aus S320 GD dürfen diese Werte um 0,30 kN erhöht werden.									
		40	26,5	26,5	10,0	9,0	8,0	7,0	4,5	<p>Maximale Kopfauslenkung U, in mm</p>	
		50	40,0	40,0	12,5	11,5	10,5	8,5	5,5		
		60	40,0	40,0	15,5	14,5	13,5	10,0	7,0		
		70	40,0	40,0	18,5	16,0	14,0	11,5	9,0		
		80	40,0	40,0	21,5	18,0	14,5	13,5	11,5		
		100	40,0	40,0	27,0	23,0	19,0	17,5	14,0		
		120	40,0	40,0	32,5	29,5	26,5	25,0	21,0		
		140	40,0	40,0	38,5	36,5	34,5	32,5	28,0		

Mirad Tehnic - Fixari si etansari in constructii

Im Zulassungsbescheid Z-14.1-4, Blatt 3.65

maximale Durchdringung $\Sigma (t_1 + t_2) \geq 2 \times 1,00 \text{ mm}$

Verbindungs- element Bohrschraube E-X Bohr RS 4,8 x L
Dichtscheibe $\varnothing \geq 14 \text{ mm}$

Werkstoffe **Schraube** nichtrostender Stahl, Werkst.-Nr.: 1.4301
Scheibe nichtrostender Stahl, Werkst.-Nr.: 1.4301 mit aufvulkanisierter EPDM-Dichtung

		Bauteil II aus Stahl mit t_1 [mm] S235Jxx nach DIN EN 10 025 S280GD+xx oder S320GD+xx nach DIN EN 10 147						Bauteil II aus Holz; Sortierklasse \geq S10
		0,63	0,75	0,88	1,00	1,13	1,25	
Anzugsmoment		anschlagorientiert verschrauben						
		5 Nm (Richtwert)						
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Querkraft V_{Rk} [kN]	0,63	0,70 ac	1,00 ac	1,30 a	1,30 a	1,30 a	
		0,75	0,90 —	1,20 —	1,50 —	1,60 —	1,70 —	
		0,88	1,10 —	1,40 —	1,80 —	2,00 —	—	
		1,00	1,20 —	1,60 —	2,00 —	—	—	
		1,13	1,40 —	1,80 —	—	—	—	
		1,25	1,60 —	—	—	—	—	
	1,50	—	—	—	—	—		
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Zugkraft N_{Rk} [kN]	0,63	0,40 —	0,50 ac	0,60 ac	0,70 a	0,90 a	0,90 a
		0,75	0,40 —	0,50 —	0,60 —	0,70 —	0,90 —	1,00 —
		0,88	0,40 —	0,50 —	0,60 —	0,80 —	1,10 —	—
		1,00	0,40 —	0,50 —	0,60 —	0,80 —	—	—
		1,13	0,40 —	0,50 —	0,70 —	—	—	—
		1,25	0,40 —	0,50 —	0,70 —	—	—	—
	1,50	—	—	—	—	—	—	

Im Zulassungsbescheid Z-14.1-4, Blatt 3.66

maximale Durchdringung $\Sigma (t_1 + t_2) \geq 2 \times 1,00 \text{ mm}$

Verbindungs- element Bohrschraube E-X Bohr RS 5,5 x L
Dichtscheibe $\varnothing \geq 14 \text{ mm}$

Werkstoffe **Schraube** nichtrostender Stahl, Werkst.-Nr.: 1.4301
Scheibe nichtrostender Stahl, Werkst.-Nr.: 1.4301 mit aufvulkanisierter EPDM-Dichtung

		Bauteil II aus Stahl mit t_1 [mm] S235Jxx nach DIN EN 10 025 S280GD+xx oder S320GD+xx nach DIN EN 10 147						Bauteil II aus Holz; Sortierklasse \geq S10
		0,63	0,75	0,88	1,00	1,13	1,25	
Anzugsmoment		anschlagorientiert verschrauben						
		5 Nm (Richtwert)						
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Querkraft V_{Rk} [kN]	0,63	1,20 ac	1,30 ac	1,80 a	2,10 a	2,80 a	
		0,75	1,30 —	1,60 —	2,00 —	2,40 —	3,00 —	
		0,88	1,40 —	1,80 —	2,20 —	2,70 —	—	
		1,00	1,50 —	2,00 —	2,40 —	—	—	
		1,13	1,60 —	2,00 —	—	—	—	
		1,25	1,70 —	—	—	—	—	
	1,50	—	—	—	—	—		
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Zugkraft N_{Rk} [kN]	0,63	0,50 —	0,70 ac	0,90 ac	0,90 a	0,90 a	
		0,75	0,50 —	0,70 —	1,00 —	1,00 —	1,00 —	
		0,88	0,70 —	0,90 —	1,10 —	1,20 —	1,20 —	
		1,00	0,70 —	0,90 —	1,10 —	1,40 —	—	
		1,13	0,80 —	1,00 —	1,30 —	—	—	
		1,25	0,80 —	1,00 —	—	—	—	
	1,50	—	—	—	—	—		

Im Zulassungsbescheid Z-14.1-4, Blatt 3.116

maximale Durchdringung $\Sigma (t_1 + t_2) \geq 1,50 \text{ mm}$

Verbindungs- element Bohrschraube E-X Bohr 2 5,5 x L
Dichtscheibe $\varnothing \geq 16 \text{ mm}$

Werkstoffe **Schraube** nichtrostender Stahl, Werkst.-Nr.: 1.4301
Scheibe nichtrostender Stahl, Werkst.-Nr.: 1.4301 mit aufvulkanisierter EPDM-Dichtung

		Bauteil II aus Stahl mit t_1 [mm] S235Jxx nach DIN EN 10 025 S280GD+xx oder S320GD+xx nach DIN EN 10 147					Bauteil II aus Holz; Sortierklasse \geq S10	
		0,88	1,00	1,13	1,25	1,50		2,00
Anzugsmoment (Richtwert)		anschlagorientiert verschrauben						
		5 Nm					7 Nm	
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Querkraft V_{Rk} [kN]	0,63	1,20 —	1,50 —	1,70 —	1,70 abc	1,70 abc	
		0,75	1,60 —	1,80 —	2,00 —	2,00 ac	2,00 abc	
		0,88	2,00 —	2,20 —	2,30 —	2,40 —	2,40 ac	
		1,00	2,20 —	2,60 —	2,70 —	2,70 —	2,70 a	
		1,13	2,20 —	2,60 —	2,70 —	2,70 —	2,70 a	
		1,25	2,20 —	2,60 —	2,70 —	2,70 —	2,70 a	
		1,50	2,20 —	2,60 —	2,70 —	2,70 —	2,70 a	
		1,75	2,20 —	2,60 —	2,70 —	2,70 —	—	
	2,00	2,20 —	2,60 —	2,70 —	2,70 —	—		
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Zugkraft N_{Rk} [kN]	0,50	0,38 —	0,43 —	0,54 —	0,76 abc	1,19 abc	
		0,55	0,48 —	0,55 —	0,68 —	0,95 abc	1,50 abc	
		0,63	0,70 —	0,80 —	1,00 —	1,40 abc	2,20 abc	
		0,75	0,70 —	0,80 —	1,00 —	1,40 ac	2,20 abc	
		0,88	0,70 —	0,80 —	1,00 —	1,40 —	2,20 ac	
		1,00	0,70 —	0,80 —	1,00 —	1,40 —	2,20 a	
		1,13	0,70 —	0,80 —	1,00 —	1,40 —	2,20 a	
		1,25	0,70 —	0,80 —	1,00 —	1,40 —	2,20 a	
	1,50	0,70 —	0,80 —	1,00 —	1,40 —	2,20 a		
	1,75	0,70 —	0,80 —	1,00 —	1,40 —	—		
	2,00	0,70 —	0,80 —	1,00 —	1,40 —	—		

Im Zulassungsbescheid Z-14.1-4, Blatt 3.117

Verbindungselement Bohrschraube
E-X Bohr 3 5,5 x L
Dichtscheibe Ø ≥ 16 mm

Werkstoffe Schraube
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
Scheibe
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
mit aufvulkanisierter
EPDM-Dichtung

maximale Durchdringung $\Sigma(t+t) \leq 25$ mm

		Bauteil II aus Stahl mit t_1 [mm] S235Jxx nach DIN EN 10 025 S280GD+xx oder S320GD+xx nach DIN EN 10 147							Bauteil II aus Holz; Sortierklasse ≥ S10
		1,50	2,00	2,50	3,00	4,00	5,00	6,00	
Anzugsmoment (Richtwert)		anschlagorientiert verschrauben							
		2 Nm							
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Querkraft V_{Rk} [kN]	0,63	2,40 ac	2,40 ac	2,40 ac	2,40 abcd	2,40 abc	2,40 abc	
		0,75	2,70 ac	2,80 ac	2,80 ac	3,30 ac	3,30 ac	3,30 ac	
		0,88	3,00 —	3,50 —	3,50 —	4,20 —	4,20 —	4,20 —	
		1,00	3,20 —	3,60 —	3,60 —	4,30 —	4,30 —	4,30 —	
		1,13	3,20 —	3,60 —	3,60 —	4,30 —	4,30 —	4,30 —	
		1,25	3,20 —	3,60 —	3,60 —	4,30 —	4,30 —	4,30 —	
		1,50	3,20 —	3,60 —	3,60 —	4,30 —	—	—	
		1,75	3,20 —	3,60 —	3,60 —	4,30 —	—	—	
		2,00	3,20 —	3,60 —	3,60 —	4,30 —	—	—	
		Zugkraft N_{Rk} [kN]	0,50	0,54 ac	0,97 ac	0,97 ac	1,57 abcd	1,57 abc	—
		0,55	0,68 ac	1,23 ac	1,23 ac	1,98 abcd	1,98 abc	—	
		0,63	1,00 ac	1,80 ac	1,80 ac	2,90 abcd	2,90 abc	—	
		0,75	1,00 ac	1,80 ac	1,80 ac	3,50 ac	3,50 ac	—	
		0,88	1,00 —	1,80 —	1,80 —	4,10 —	4,10 —	—	
		1,00	1,00 —	1,80 —	1,80 —	4,60 —	4,70 —	—	
		1,13	1,00 —	1,80 —	1,80 —	4,60 —	5,40 —	—	
		1,25	1,00 —	1,80 —	1,80 —	4,60 —	6,00 —	—	
		1,50	1,00 —	1,80 —	1,80 —	4,60 —	—	—	
		1,75	1,00 —	1,80 —	1,80 —	4,60 —	—	—	
		2,00	1,00 —	1,80 —	1,80 —	4,60 —	—	—	

Im Zulassungsbescheid Z-14.1-4, Blatt 3.133

Verbindungselement Bohrschraube
E-X Bohr 5 5,5 x L
Dichtscheibe Ø ≥ 16 mm

Werkstoffe Schraube
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
Scheibe
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
mit aufvulkanisierter
EPDM-Dichtung

maximale Durchdringung $\Sigma(t+t) \leq 2,5$ mm

		Bauteil II aus Stahl mit t_1 [mm] S235Jxx nach DIN EN 10 025 S280GD+xx oder S320GD+xx nach DIN EN 10 147							Bauteil II aus Holz; Sortierklasse ≥ S10
		4,00	5,00	6,00	8,00	10,00	12,00	13,00	
Anzugsmoment (Richtwert)		anschlagorientiert verschrauben							
		8 Nm							
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Querkraft V_{Rk} [kN]	0,63			4,00 abcd	4,00 abcd	4,00 abcd		
		0,75			4,50 ac	4,50 ac	4,50 ac		
		0,88			4,90 ac	5,00 ac	5,00 ac		
		1,00			5,30 ac	5,40 ac	5,50 ac		
		1,13			5,70 —	5,90 ac	6,00 ac		
		1,25			6,10 —	6,30 ac	6,50 ac		
		1,50			6,10 —	6,30 —	6,50 —		
		1,75			6,10 —	6,30 —	6,50 —		
		2,00			6,10 —	6,30 —	6,50 —		
		Zugkraft N_{Rk} [kN]	0,50			1,84 abcd	1,84 abcd	1,84 abcd	
		0,55			2,32 abcd	2,32 abcd	2,32 abcd		
		0,63			3,40 abcd	3,40 abcd	3,40 abcd		
		0,75			3,90 ac	3,90 ac	3,90 ac		
		0,88			4,40 ac	4,40 ac	4,40 ac		
		1,00			4,90 ac	4,90 ac	4,90 ac		
		1,13			5,40 —	5,40 ac	5,40 ac		
		1,25			5,80 —	5,80 ac	5,80 ac		
		1,50			6,60 —	6,60 —	6,60 —		
		1,75			6,60 —	6,60 —	6,60 —		
		2,00			6,60 —	6,60 —	6,60 —		

Im Zulassungsbescheid Z-14.1-4, Blatt 4.8

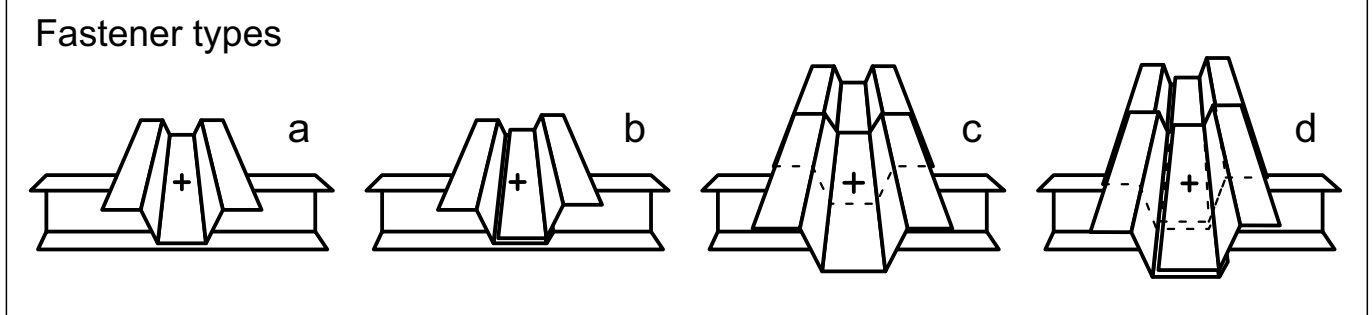
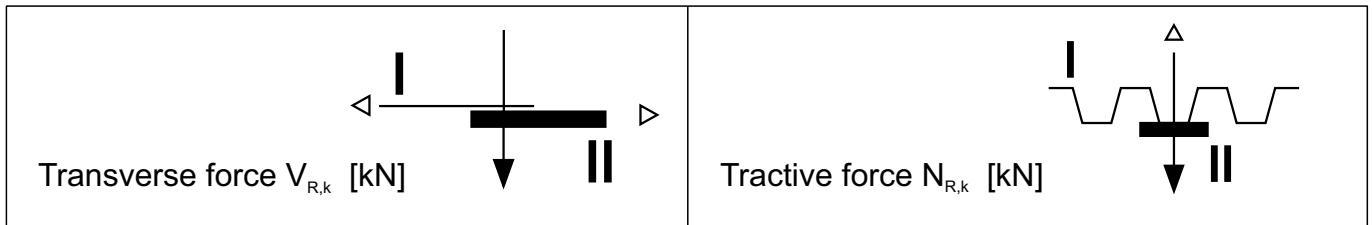
Verbindungselement E-X BZ 6,3 x L
Dichtscheibe Ø ≥ 16 mm

Werkstoffe Schraube
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
Scheibe
nichtrostender Stahl,
Werkst.-Nr.: 1.4301
mit aufvulkanisierter
EPDM-Dichtung

maximale Durchdringung $\Sigma(t+t) \leq 2,5$ mm

		Bauteil II aus Stahl mit t_1 [mm] S235Jxx nach DIN EN 10 025 S280GD+xx oder S320GD+xx nach DIN EN 10 147							Bauteil II aus Holz; Sortierklasse ≥ S10
		1,25	1,50	2,00	3,00	4,00	6,00	≥ 7,00	
Vorgebohrt mit		Ø 5,0		Ø 5,3			Ø 5,5	Ø 5,7	
Anzugsmoment		anschlagorientiert verschrauben, Richtwert 5 Nm							
Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147	Querkraft V_{Rk} [kN]	0,63	2,50 ac	2,70 ac	2,90 abcd	3,00 abcd	3,10 abcd	3,10 abcd	3,10 abcd
		0,75	2,60 ac	3,10 ac	3,30 ac	3,60 ac	3,70 abcd	3,70 abcd	3,70 abcd
		0,88	2,80 ac	3,20 ac	3,80 ac	4,10 ac	4,40 ac	4,40 ac	4,40 ac
		1,00	3,20 —	3,60 ac	4,10 ac	4,80 ac	4,90 ac	5,10 ac	5,10 ac
		1,13	3,40 —	4,00 —	4,60 ac	5,40 ac	5,60 ac	5,80 ac	5,80 ac
		1,25	3,60 —	4,20 —	5,00 ac	6,10 ac	6,30 ac	6,50 ac	6,50 ac
		1,50	3,70 —	4,40 —	5,70 —	6,80 —	7,10 —	7,30 —	7,30 —
		1,75	3,70 —	4,70 —	6,20 —	7,60 —	7,70 —	8,10 —	8,10 —
		2,00	3,80 —	4,90 —	6,90 —	7,80 —	7,90 —	8,10 —	8,10 —
		Zugkraft N_{Rk} [kN]	0,50	0,97 ac	1,35 ac	1,51 abcd	1,51 abcd	1,51 abcd	1,51 abcd
		0,55	1,23 ac	1,71 ac	1,91 abcd	1,91 abcd	1,91 abcd	1,91 abcd	1,91 abcd
		0,63	1,80 ac	2,50 ac	2,80 abcd	2,80 abcd	2,80 abcd	2,80 abcd	2,80 abcd
		0,75	2,00 ac	2,60 ac	3,10 ac	3,60 ac	3,60 abcd	3,60 abcd	3,60 abcd
		0,88	2,00 ac	2,70 ac	3,30 ac	3,80 ac	3,80 ac	3,80 ac	3,80 ac
		1,00	2,00 —	2,70 —	3,40 ac	4,00 ac	4,00 ac	4,00 ac	4,00 ac
		1,13	2,00 —	2,70 —	3,60 ac	4,40 ac	4,40 ac	4,40 ac	4,40 ac
		1,25	2,00 —	2,70 —	3,60 ac	4,80 ac	4,90 ac	4,90 ac	4,90 ac
		1,50	2,00 —	2,70 —	3,60 —	5,60 —	5,90 —	5,90 —	5,90 —
		1,75	2,00 —	2,70 —	3,60 —	5,80 —	6,90 —	7,10 —	7,10 —
		2,00	2,00 —	2,70 —	3,60 —	6,00 —	7,30 —	7,60 —	7,60 —

<p>Im Zulassungsbescheid Z-14.1-4, Blatt 4.1</p>		<p>Bauteil II aus Stahl mit t_1 [mm] S235Jxx nach DIN EN 10 025 S280GD+xx oder S320GD+xx nach DIN EN 10 147</p>									<p>Bauteil II aus Holz; Sortierklasse \geq S10 $s_p \geq 26$ mm</p>
		0,63	0,75	0,88	1,00	1,13	1,25	1,50	2,00		
Vorgebohrt mit	Ø 3,5	Ø 4,0	Ø 4,5			Ø 5,0			Ø 4,8		
Anzugsmoment	Richtwert 3 Nm					Richtwert 5 Nm					
<p>Bauteil I aus Stahl mit t_1 [mm] S280GD+xx oder S320GD+xx nach DIN EN 10 147</p>	Querkraft $V_{R,k}$ [kN]	0,63	0,75	0,88	1,00	1,13	1,25	1,50	2,00	2,90	
	Zugkraft $N_{R,k}$ [kN]	0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	1,50	2,00
		0,49	0,61	0,90	0,90	0,90	1,00	1,00	1,00	1,00	1,13
		0,59	0,75	1,10	1,10	1,10	1,20	1,20	1,20	1,20	1,43
		0,70	0,89	1,30	1,30	1,30	1,40	1,40	1,40	1,40	1,60
		0,76	0,95	1,40	1,40	1,40	1,50	1,50	1,50	1,50	1,80
		0,86	1,09	1,60	1,60	1,60	1,70	1,70	1,70	1,70	2,10
		0,97	1,23	1,80	1,80	1,80	1,90	1,90	1,90	1,90	2,30
		1,13	1,43	2,10	2,10	2,10	2,30	2,30	2,30	2,30	2,90
		1,13	1,43	2,10	2,10	2,10	2,30	2,30	2,30	2,30	2,90
<p>Verbindungs- element E-X A 6,5 x L Dichtscheibe $\varnothing \geq 16$ mm Werkstoffe Schraube nichtrostender Stahl, Werkst.-Nr.: 1.4301 Scheibe nichtrostender Stahl, Werkst.-Nr.: 1.4301 mit aufvulkanisierter EPDM-Dichtung</p>											



The fastener types which are permitted in the case of transverse load as a result of temperature without calculational verification are specified in the table next to the permitted forces.

In the case of intermediate values for part thickness I or II, the permissible transverse and tractive values for the thinner part must be selected.

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We are certified by DEKRA ISTI GmbH:

- For stainless steel drilling screws and screws types A and BZ under reg. no. ÜZ-001/2004.
- For screws to fasten sandwich profiles under reg. no. ÜZ-002/2004.