

MIRAD TEHNIC

FIXĂRI ȘI ETANȘĂRI ÎN CONSTRUCȚII



ANTI-CORROSION RO FASTENERS

PRODUCT CATALOGUE

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CORROSHIELD® FASTENERS

TAPPERMAN® FASTENERS



Cu o experienta de peste 10 ani in oferirea de solutii de fixare si etansare pentru inchideri perimetrale la constructii, sisteme de siguranta personala si colectivea pe acoperisuri, echipa noastra va ajuta in alegerea corecta a sistemelor care va sunt necesare, dupa care livram prompt si la preturi corecte oriunde aveti nevoie de produsele noastre, la sediul dumneavoastra sau direct in santier, oriunde in tara.

Fixarile mecanice utilizate pentru inchiderile la constructiile industriale este necesar sa fie superioare din punct de vedere calitativ, fiind supuse unor eforturi mai intense si pe o perioada mai lunga de timp, actiunea agentilor corozivi naturali fiind amplificata de catre substantele degajate in cursul proceselor industriale si a activitatilor mult mai intense decat intr-un mediu non-industrial. Drept urmare, acoperirile protective si anticorozive ale sistemelor de fixare, mai ales a celor utilizate la constructii industriale, trebuie sa fie cel putin la nivelul materialelor de prins, intre pretul acestora trebuind sa existe un raport logic.

Utilizarea unor materiale de calitate, scumpe, dar fixate cu niste suruburi de calitate indoielnica sau fara certificari tehnice, conduce, in cele din urma, la pierderea de resurse, timp si bani cu inlocuiri, reparatii repetate, deteriorari ale materialelor de baza, etc. Acoperirile protective si anticorozive ale sistemelor de fixare trebuie sa fie cel putin la nivelul materialelor de prins, intre pretul acestora trebuind sa existe un raport logic.

Controlul calitatii si trasabilitatea produselor, dar mai ales certificarea tehnica a acestora de catre institutii specializate si abilitate in acest sens (INCERC, TUV, ITB, etc.), este o conditiie obligatorie in acest domeniu. Toate produsele livrate de catre noi au variante cu agremente tehnice specifice lucrarilor de constructii, multe dintre ele fiind inovatii tehnice de exceptie sustinute de caracteristicile mult superioare celor oferite de catre alti producatori.

Alegerea unor furnizori de incredere, de mare prestigiu, dar mai ales verificati de catre noi in decursul multor ani de colaborare si a multor lucrari de inchideri la constructii realizate impreuna cu partenerii nostri din constructii-montaj, ne dau increderea ca va oferim cele mai bune solutii pentru constructiile dumneavoastra.

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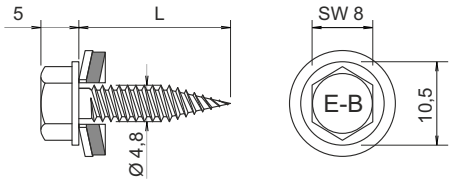
Coasere table

Suruburi speciale din otel zincat călit

- fara verf sau cu varf de forare redus fata de filet. Fara șpan, fara pregaurire
- din otel zincat sau otel inox
- cu sau fara saiba din otel cu EPDM
- pentru utilizare ca surub de coasere la suprapuneri de table de max 2 x 0.7 mm



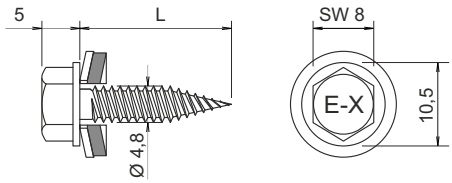
Otel zincat - cu sau fara saiba			Technic	
Denumire produs	Artikel-nummer	Mit verzinkter Scheibe Ø 14mm	Lungime surub [mm]	Perforare [mm]
TWINFAST 4.8 x 20	72730462		20	Suprapuneri 2x0.7





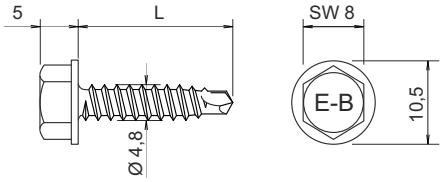
Otel Inoxidabil cu saiba EPDM			Technic	
Bezeichnung	Artikel-nummer	Mit Edelstahl-scheibe Ø 14mm	Lungime surub [mm]	Perforare [mm]
E-X RS 14 4.8 x 20	72005302		20	Suprapunere 2x0.8

Zulassungen





Otel zincat cu sau fara saiba			Technic	
Bezeichnung	Artikel-nummer	Scheibe	Lungime surub [mm]	Perforare [mm]
CZMT RS 4.8 x 19	72740300		19	Suprapuneri 2x1.2



De asemenea, disponibile, prețuri la cerere:
- Cu sau fara saiba EPDM
- Cap vopsit RAL



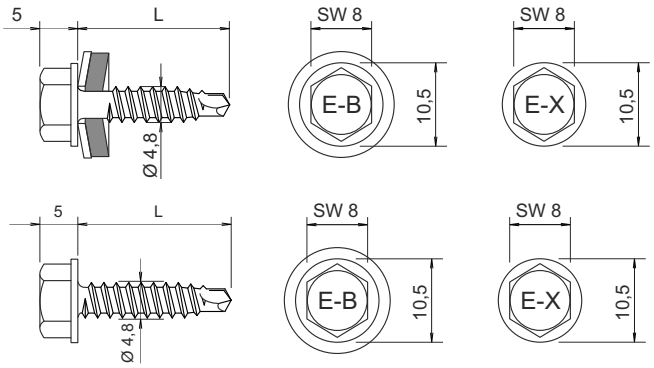
Coasere table

Șuruburi speciale autoperforante din oțel călit

- cu vârf de perforare redus
- otel zincat sau otel inoxidabil
- livrate cu sau fara saiba din EPDM
- penru coasere suprapuneri table subtiri

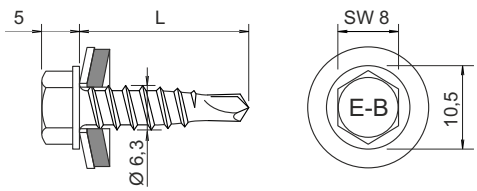
Denumire produs			Technic	
Bezeichnung	Artikel-nummer	Material	Gewinde-länge [mm]	Bohrleistung [mm]
CZMT RS 14 4.8 x 20	72740462	Otel zincat	18	Suprapuneri 2x1.0
E-X BOHR RS 4.8 x 19	72010300	INOX		Suprapuneri 2x1.0





Denumire produs			Technik	
Bezeichnung	Artikel-nummer	Scheibe	Gewinde-länge [mm]	Bohrleistung [mm]
CZMT RS 16 6.3 x 22	72460463	Otel zincat	22	Suprapuneri 2x1.0
CZMT RS 16 6.3 x 25	72460763		25	Suprapuneri 2x1.0





De asemenea, disponibile, prețuri la cerere:
- Cu sau fara saiba EPDM
- Cap vopsit RAL



Coasere table

Perforare 2x1.0mm

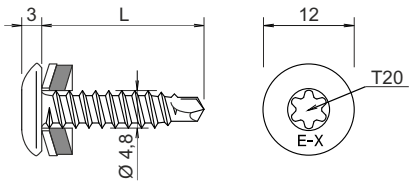
Surub cap semibombat cu saiba EPDM

- cap semibombat cu antrenare TORX
- varf de perforare redus pentru coasere suprapuneri de table
- din otel zincat sau otel INOX, cu saiba EPDM
- pentru coasere suprapuneri de table

- Cap vopsit RAL

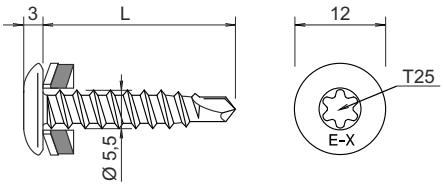


Gama produse			Technic	
Denumire produs	Artikel-nummer	Cu saiba Ø 12mm	Gewinde-länge [mm]	Bohrleistung [mm]
E-X T25 BOHR RS 12 4.8 x 20	72001101	INOX	20	Suprapuneri 2x1.0
CZMT LVR 12 4.8 x 20 TX20		Otel zincat	20	Suprapuneri 2x1.0





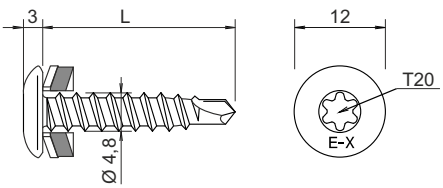
Gama produse			Technic	
Denumire produs	Artikel-nummer	Cu saiba EPDM	Lungime ilet [mm]	Perforare [mm]
E-X T25 BOHR RS 12 5.5 x 22	72001501	INOX	22	Suprapuneri 2x1.0



Surub autoperforant max. 4 mm



Gama produse			Technic	
Denumire produs	Artikel-nummer	Cu saiba EPDM	Lungime ilet [mm]	Perforare [mm]
CZMT 4,8 x 20 V14 TX20, LV	72001501	Otel zincat	20	LV Max. 4 mm



Cap vopsit RAL

Anti-Corrosion RAL Colour Matched

Substructuri din otel

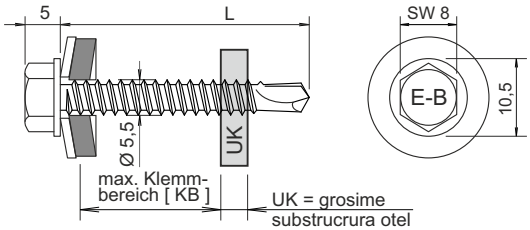
Perforare 5.0 / 8.0mm

Șuruburi speciale autoperforante din oțel călit

- protejate anticoroziv prin zincare
- cu sau fara saiba din EPDM Premontata
- pentru fixare table pe substructuri din otel

Gama produse otel zincat			Technik	
Denumire produs	Artikel-nummer	Scheibe Ø 16mm	Lungime filet [mm]	Pachet min.- max. [mm]
CZMT LV 3 V16 5.5 x 19	72150463		19	0 - 2
CZMT LV 3 V16 5.5 x 22	72150563		22	0 - 5
CZMT LV 3 V16 5.5 x 25	72150663		25	0 - 8
CZMT LV 3 V16 5.5 x 32	72150763		32	0 - 15
CZMT LV 3 V16 5.5 x 38	72150863		38	0 - 21
CZMT LV 3 V16 5.5 x 50	72151063		50	0 - 33
CZMT LV 3 V16 5.5 x 60	72151163		60	0 - 43





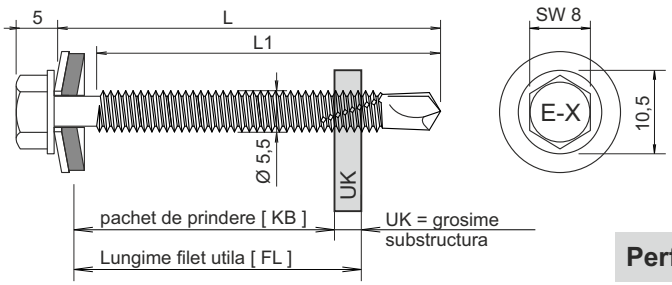
Perforare maxim UK = 5.0mm

Șuruburi speciale autoperforante din oțel inoxidabil A2

- cu saiba din otel inoxidabil A2, cu EPDM vulcanizat
- pentru fixare table pe substructuri din otel

Bruttopreise €/100 Stück			Technic		
Denumire produs	Artikel-nummer	Cu saiba EPDM Ø 16mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
E-X BOHR 3 16 5.5 x 26	72040603	40,95 €	26	9	0 - 3
E-X BOHR 3 16 5.5 x 32	72040703	44,60 €	32	15	0 - 9
E-X BOHR 3 16 5.5 x 38	72040803	48,35 €	38	21	0 - 15
E-X BOHR 3 16 5.5 x 50	72040903	61,55 €	50	33	0 - 27
E-X BOHR 3 16 5.5 x 65	72041103	71,40 €	65	48	0 - 42





Perforare maxima 5.25mm

Substructuri din otel

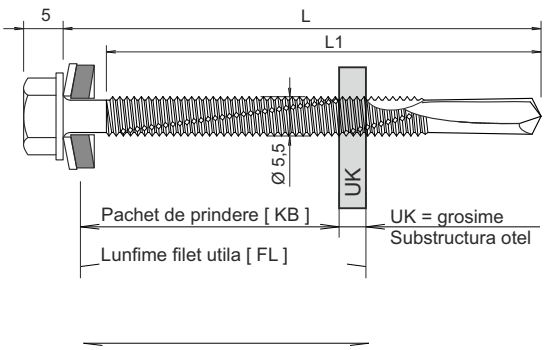
Perforare 5.0 ~ 12.50mm

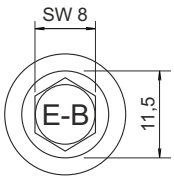
Șuruburi speciale autoperforante din oțel călit

- protejate anticoroziv prin zincare
- cu sau fara saiba din EPDM Premontata
- pentru fixare table pe substructuri din otel



Gama produse otel zincat			Technic		
Denumire produs	Artikel-nummer	Cu saiba EPDM Ø 16mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
E-VS BOHR 5 16 5.5 x 32	72852263		32	8	0 - 1
E-VS BOHR 5 16 5.5 x 38	72852463		38	14	0 - 2
E-VS BOHR 5 16 5.5 x 51	72852563		51	27	0 - 15
E-VS BOHR 5 16 5.5 x 67	72853063		67	43	0 - 31
E-VS BOHR 5 16 5.5 x 76	72853563		65	52	9 - 40
E-VS BOHR 5 16 5.5 x 85	72853600163		65	61	18 - 49
E-VS BOHR 5 16 5.5 x 100	72853963		65	76	33 - 64
E-VS BOHR 5 16 5.5 x 115	72854063		65	91	48 - 79
E-VS BOHR 5 16 5.5 x 130	72854163		65	106	63 - 94
E-VS BOHR 5 16 5.5 x 150	72854263		65	126	83 - 114





PERFORARE MAXIMA 12.5mm

Șuruburi speciale autoperforante din oțel inoxidabil A2

- cu saiba din otel inoxidabil A2, cu EPDM vulcanizat
- pentru fixare table pe substructuri din otel



Bruttopreise €/100 Stück			Technic		
Denumire produs	Artikel-nummer	Cu saiba EPDM Ø 16mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
E-X BOHR 5 16 5.5 x 38	72050803	64,00 €	38	7	0 - 1
E-X BOHR 5 16 5.5 x 50	72051003	67,45 €	50	19	0 - 7
E-X BOHR 5 16 5.5 x 65	72051103	75,10 €	65	34	0 - 22
E-X BOHR 5 16 5.5 x 80	72051203	97,40 €	65	49	13 - 37
E-X BOHR 5 16 5.5 x 100	72051503	109,35 €	65	69	33 - 57
Die Länge 38mm und 80mm auch in A4-Qualität lieferbar, mit Dichtscheibe Ø 19mm!					
E-X A4 BOHR 5 19 5.5 x 38	72050800604	80,15 €	38	7	0 - 1
E-X A4 BOHR 5 19 5.5 x 80	72051200604	121,95 €	65	49	13 - 37

Substructuri din otel

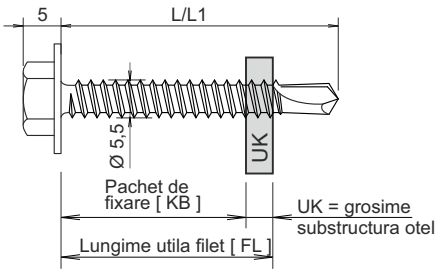
Perforare 5.0 ~ 12.50mm

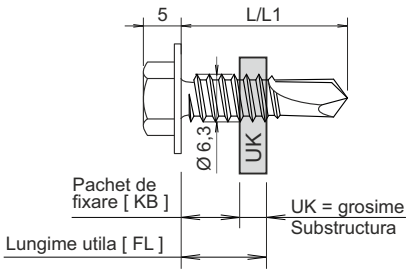
Șuruburi speciale autoperforante din oțel călit

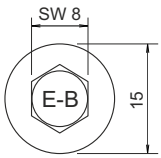
- protectie anticoroziva **Corroshield OC - Test 500 ore atmosfera salina**
- guler larg sub cap (Ø 15mm) pentru o presiune optima pe tabla
- pentru fixarea profilelor Z sau U, a tablelor portante pe substructuri din oțel

Gama produse OCMT			Technic		
Denumire produs	Artikel-nummer	Fara EPDM	L1 [mm]	FL [mm]	KB min.- max. [mm]
OCMT LV3 Guler 5.5 x 25	72350600		25	15	0 - 10
E-VS BOHR 3 COL 5.5 x 50	72351000		50	40	0 - 35
Cu o capacitate totală de găurire de 6,0 mm și diam Ø 6,3 mm					
E-VS BOHR 3 COL 6.3 x 22	72360500		22	9	0 - 3







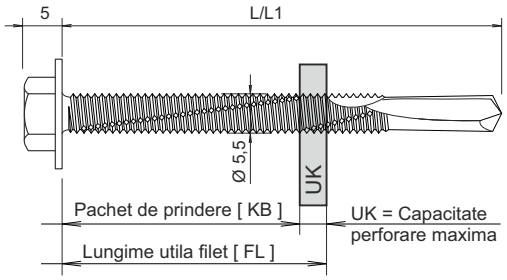


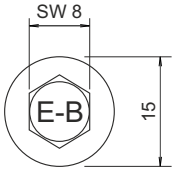
Ø 5.5mm
PERFORARE MAXIMA 5.0mm

Ø 6.3mm
TERFORARE MAXIMA 6.0mm

Gama de produse OCMT Guler			Technic		
Denumire produs	Artikel-nummer	Ohne Scheibe	L1 [mm]	FL [mm]	KB min.- max. [mm]
E-VS BOHR 5 COL 5.5 x 35	72340800		35	12	0 - 3
E-VS BOHR 5 COL 5.5 x 50	72341000		50	27	0 - 15







LEVIN™ DRILL POINT

SCRATCHSHIELD™

Tight Stitch · Improved Pull Out · Anti-Corrosion · RAL Colour Matched

CAPACITATE PERFORARE 12.5mm

Substructuri din otel

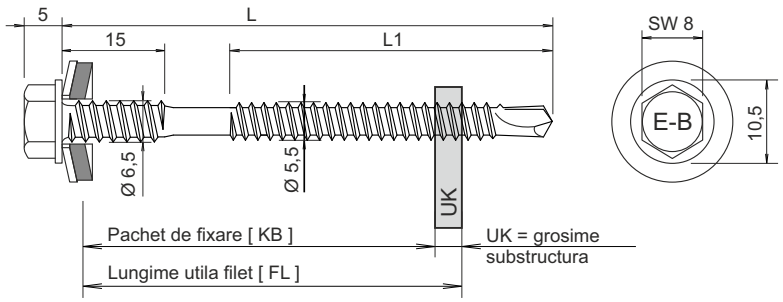
Perforare 2.0 ~ 5.0 mm

Șuruburi speciale autoperforante din oțel călit

- protejate anticoroziv **Corroshield OC - Test 500 ore in atmosfera salina**
- cu șaibe de etanșare 19 mm premontate din oțel galvanizat, cu EPDM vulcanizat
- pentru fixarea panourilor pe substructuri din otel 2.5 ~ 5.0 mm



Suruburi pentru panou			Technik		
Denumire produs	Artikel-nummer	Cu saiba EPDM Ø 19mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
OCMT LV 3 M5.5/6.3-14 x 50	72931263		33	46	25 - 41
OCMT LV 3 M5.5/6.3-14 x 62	72931363		38	51	25 - 46
OCMT LV 3 M5.5/6.3-14 x 82	72931563		38	66	40 - 61
OCMT LV 3 M5.5/6.3-14 x 105	72931763		48	84	48 - 79
OCMT LV 3 M5.5/6.3-14 x 120	72931863		68	106	50 - 101
OCMT LV 3 M5.5/6.3-14 x 135	72931963		68	116	60 - 111
OCMT LV 3 M5.5/6.3-14 x 155	72932063		78	136	70 - 131
OCMT LV 3 M5.5/6.3-14 x 175	72932163		78	166	100 - 161
OCMT LV 3 M5.5/6.3-14 x 200	72932263		78	186	120 - 181
OCMT LV 3 M5.5/6.3-14 x 235	72932363		78	216	150 - 211
OCMT LV 3 M5.5/6.3-14 x 255	72932363				170 - 231



CAPACITATE PERFORARE 5.0mm

METAPP®

FEATURES

- Material : Carbon Steel
- Hex Washer Head
- ScratchShield™
- Double thread
- LEVIN® Drill Point
- Max. Drilling Capacity: (5.5mm) Steel
- Bonded Washer: Galvanized Steel Plate with EPDM Washer



LEVIN™ DRILL POINT



SCRATCHSHIELD™

De asemenea, disponibile, prețuri la cerere:
- Cu capacele din plastic vopsite RAL
- Cap vopsit RAL



Substructuri din otel

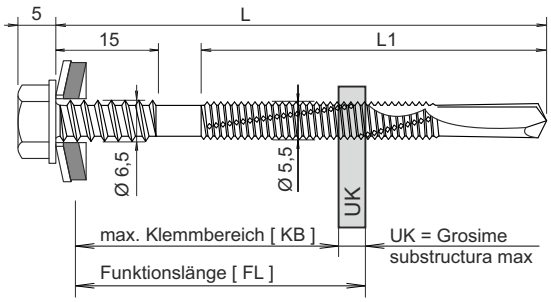
Perforare 5.0 ~ 12.5

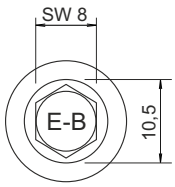
Șuruburi speciale autoperforante din oțel călit

- protejate anticoroziv **Corroshield OC - Test 500 ore in atmosfera salina**
- cu șaibe de etanșare 19 mm premontate din oțel galvanizat, cu EPDM vulcanizat
- pentru fixarea panourilor pe substructuri din otel 5.0 ~ 12.5 mm

Suruburi panou LV 5			Technic		
Bezeichnung	Artikel-nummer	Mit verzinkter Scheibe Ø 16mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
OCMT LV 5 M5.5/6.3-19 x 70	72951163				28 - 38
OCMT LV 5 M5.5/6.3-19 x 90	72951363				38 - 60
OCMT LV 5 M5.5/6.3-19 x 110	72951563				58 - 78
OCMT LV 5 M5.5/6.3-19 x 135	72951663				73 - 103
OCMT LV 5 M5.5/6.3-19 x 155	72951673				63 - 113
OCMT LV 5 M5.5/6.3-19 x 175	72951763				83 - 138
OCMT LV 5 M5.5/6.3-19 x 200	72951773				133 - 163
OCMT LV 5 M5.5/6.3-19 x 235	72951863				165 - 203
OCMT LV 5 M5.5/6.3-19 x 255	72952063				183 - 223
OCMT LV 5 M5.5/6.3-19 x 275	72952163				195 - 238
OCMT LV 5 M5.5/6.3-19 x 285	72952363				198 - 248
OCMT LV 5 M5.5/6.3-19 x					







PERFORARE MAXIMA 12.5mm

METAPP®

FEATURES

- Material : Carbon Steel
- Hex Washer Head
- ScratchShield™
- Double thread
- LEVIN® Drill Point
- Max. Drilling Capacity: (5.5mm) Steel
- Bonded Washer: Galvanized Steel Plate with EPDM Washer



LEVIN™ DRILL POINT



SCRATCHSHIELD™

De asemenea, disponibile, prețuri la cerere:
- Cu capacele din plastic vopsite RAL
- Cap vopsit RAL



Substructuri din otel

Perforare 5.0 ~ 12.0 mm

Șuruburi speciale autoperforante din oțel inoxidabil A2

- cu saiba premontatta de 16mm din inox A2, cu EPDM vulcanizat
- pentru montarea panourilor sandwish pe structuri din otel

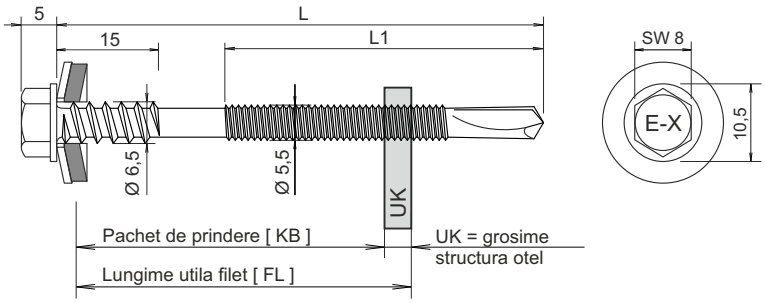


Zulassungen

CE - ETA

END

Preturi de lista €/100 buc			Technik		
Denumire produs	Artikel-nummer	Mit Edelstahl-scheibe Ø 16mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
E-X BOHR 5 HT 16 5.5 x 75	72071103	99,60 €	50	44	23 - 31
E-X BOHR 5 HT 16 5.5 x 95	72071503	114,65 €	65	64	28 - 51
E-X BOHR 5 HT 16 5.5 x 110	72071603	123,30 €	70	79	38 - 66
E-X BOHR 5 HT 16 5.5 x 130	72071793	132,00 €	70	94	58 - 81
E-X BOHR 5 HT 16 5.5 x 150	72071803	149,20 €	70	119	78 - 106
E-X BOHR 5 HT 16 5.5 x 165	72071903	167,45 €	70	134	93 - 121
E-X BOHR 5 HT 16 5.5 x 190	72072093	185,75 €	70	159	118 - 146
E-X BOHR 5 HT 16 5.5 x 210	72072103	199,75 €	70	179	138 - 166
E-X BOHR 5 HT 16 5.5 x 240	72072303	256,05 €	70	209	168 - 196
E-X BOHR 5 HT 16 5.5 x 270	72072703	287,45 €	70	239	198 - 226
E-X BOHR 5 HT 16 5.5 x 290	72072903	339,45 €	70	259	218 - 246
E-X BOHR 5 HT 16 5.5 x 340	72073403	390,70 €	70	309	268 - 299



CAPACITATE PERFORARE 14.0mm

Auch lieferbar, Preise auf Anfrage:
- Mit größeren Dichtscheiben
- Farbige Befestiger

Substructuri din otel

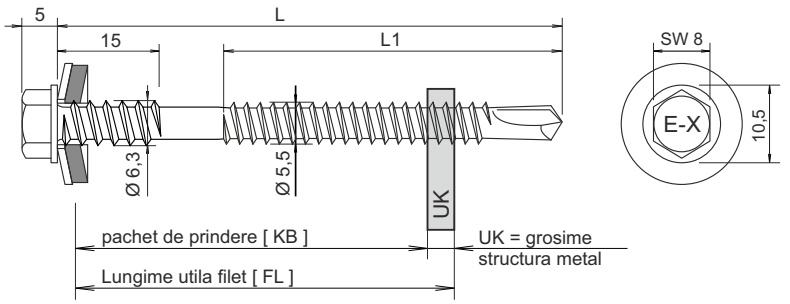
Perforare 2.0 ~ 5.0 mm

Șuruburi speciale autoperforante din oțel inoxidabil A2

- cu saiba premontatta de 16mm din inox A2, cu EPDM vulcanizat
- pentru montarea panourilor sandwish pe structuri din otel

Preturi de lista €/100 buc			Technic		
Denumire produs	Artikel-nummer	Mit Edelstahl-scheibe Ø 16mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
E-X BOHR 3 HT 16 5.5 x 70	72061103	83,00 €	50	54	18 - 49
E-X BOHR 3 HT 16 5.5 x 85	72061203	94,35 €	50	69	33 - 64
E-X BOHR 3 HT 16 5.5 x 95	72061303	97,55 €	50	79	43 - 74
E-X BOHR 3 HT 16 5.5 x 110	72061503	101,45 €	50	94	58 - 89
E-X BOHR 3 HT 16 5.5 x 130	72061703	110,85 €	70	114	58 - 109
E-X BOHR 3 HT 16 5.5 x 150	72061803	116,85 €	70	134	78 - 129
E-X BOHR 3 HT 16 5.5 x 165	72061903	133,75 €	70	149	93 - 144
E-X BOHR 3 HT 16 5.5 x 180	72062003	146,35 €	80	164	98 - 159
E-X BOHR 3 HT 16 5.5 x 200	72062103	166,10 €	80	184	118 - 179
E-X BOHR 3 HT 16 5.5 x 230	72062303	197,65 €	80	214	148 - 209
E-X BOHR 3 HT 16 5.5 x 250	72062503	214,35 €	80	234	168 - 229
E-X BOHR 3 HT 16 5.5 x 270	72062703	242,35 €	80	254	188 - 249
E-X BOHR 3 HT 16 5.5 x 290	72062903	272,45 €	80	274	208 - 269





PERFORARE MAXIMA 5.5mm

Zulassungen

Auch lieferbar, Preise auf Anfrage:
- Mit größeren Dichtscheiben
- Farbige Befestiger

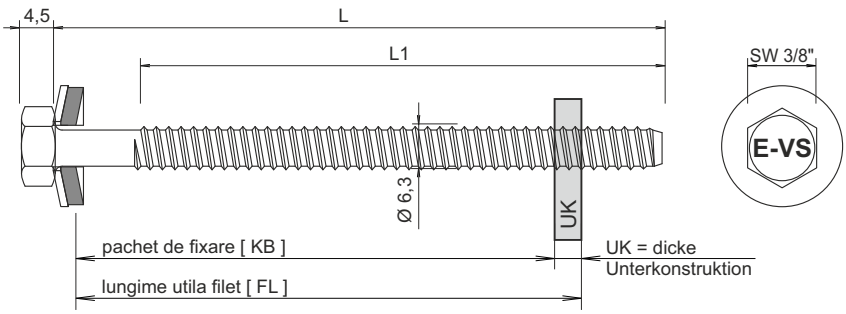
Substructuri din otel

Șuruburi speciale autoperforante din oțel călit

- protejate anticoroziv **prin zincare**
- cu șaibe de etanșare 16 mm premontate din oțel galvanizat, cu EPDM vulcanizat
- pentru fixarea panourilor pe substructuri din otel 2.5 ~ 14.0 mm



Bruttopreise €/100 Stück			Technik		
Bezeichnung	Artikel-nummer	Mit verzinkter Scheibe Ø 16mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
E-VS 16 BZ 6.3 x 16	71210163	9,40 €	16	3	0 - 1
E-VS 16 BZ 6.3 x 20	71210263	9,90 €	20	7	0 - 4
E-VS 16 BZ 6.3 x 25	71210363	11,55 €	25	12	0 - 9
E-VS 16 BZ 6.3 x 32	71210463	12,45 €	32	19	0 - 16
E-VS 16 BZ 6.3 x 38	71210563	13,25 €	38	25	0 - 22
E-VS 16 BZ 6.3 x 45	71210663	14,15 €	45	32	0 - 29
E-VS 16 BZ 6.3 x 50	71210763	14,55 €	50	37	0 - 34
E-VS 16 BZ 6.3 x 60	71210863	16,40 €	60	47	0 - 44
E-VS 16 BZ 6.3 x 65	71210963	16,85 €	65	52	0 - 49
E-VS 16 BZ 6.3 x 70	71211063	17,20 €	70	57	0 - 54
E-VS 16 BZ 6.3 x 75	71211163	18,25 €	70	62	3 - 59
E-VS 16 BZ 6.3 x 80	71211263	18,45 €	70	67	8 - 64
E-VS 16 BZ 6.3 x 85	71211363	19,70 €	70	72	13 - 69
E-VS 16 BZ 6.3 x 90	71211463	20,20 €	70	77	18 - 74
E-VS 16 BZ 6.3 x 100	71211563	25,05 €	70	87	28 - 84
E-VS 16 BZ 6.3 x 115	71211663	26,85 €	70	102	43 - 99
E-VS 16 BZ 6.3 x 130	71211763	34,05 €	70	117	58 - 114
E-VS 16 BZ 6.3 x 150	71211863	41,50 €	70	137	78 - 134
E-VS 16 BZ 6.3 x 175	71211963	50,30 €	70	162	103 - 159
E-VS 16 BZ 6.3 x 200	71212063	65,65 €	70	187	128 - 184
E-VS 16 BZ 6.3 x 220	71212163	85,45 €	70	207	148 - 204
E-VS 16 BZ 6.3 x 240	71212263	101,20 €	70	227	168 - 224
E-VS 16 BZ 6.3 x 260	71212363	117,40 €	70	247	188 - 244



Diametrul gaurii	
Otel, t Bauteil II [UK]	
1.25 - 1.5 mm	5.0 mm
2.0 - 4.0 mm	5.3 mm
6.0 mm	5.5 mm
ab 7.0 mm	5.7 mm

Aus Lagervorrat lieferbar, Preise auf Anfrage:
- Mit größeren Dichtscheiben
- Farbige Befestiger

Substructuri din otel

Șuruburi speciale autoperforante din oțel inoxidabil A2

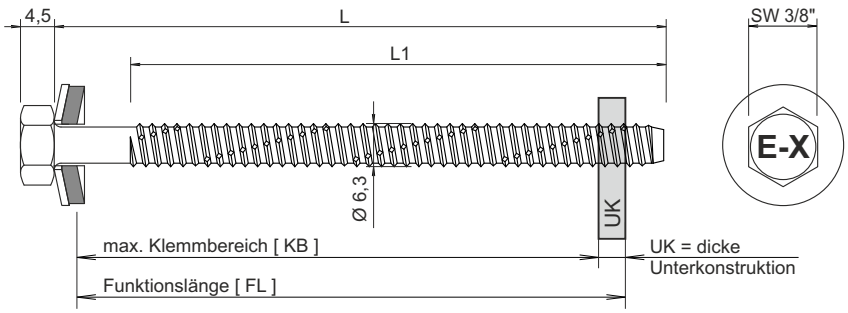
- cu saiba premontatta de 16mm din inox A2, cu EPDM vulcanizat
- pentru montarea panourilor sandwish pe structuri din otel

Bruttopreise €/100 Stück			Technik		
Bezeichnung	Artikel-nummer	Mit Edelstahl-scheibe Ø 16mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
E-X 16 BZ 6.3 x 16	01110103	23,00 €	16	8	0 - 1
E-X 16 BZ 6.3 x 20	01110203	23,05 €	20	12	0 - 4
E-X 16 BZ 6.3 x 25	01110303	26,05 €	25	17	0 - 9
E-X 16 BZ 6.3 x 32	01110403	30,45 €	32	26	0 - 16
E-X 16 BZ 6.3 x 38	01110503	35,90 €	38	30	0 - 22
E-X 16 BZ 6.3 x 45	01110603	37,75 €	45	38	0 - 30
E-X 16 BZ 6.3 x 50	01110703	39,80 €	50	42	0 - 34
E-X 16 BZ 6.3 x 60	01110803	47,70 €	60	52	0 - 44
E-X 16 BZ 6.3 x 65	01110903	51,35 €	65	57	0 - 49
E-X 16 BZ 6.3 x 70	01111003	55,15 €	70	62	0 - 54
E-X 16 BZ 6.3 x 75	01111103	57,75 €	70	67	3 - 59
E-X 16 BZ 6.3 x 80	01111203	60,25 €	70	72	8 - 64
E-X 16 BZ 6.3 x 85	01111303	62,90 €	70	77	13 - 69
E-X 16 BZ 6.3 x 90	01111403	67,60 €	70	82	18 - 74
E-X 16 BZ 6.3 x 100	01111503	72,25 €	70	92	28 - 84
E-X 16 BZ 6.3 x 115	01111603	81,40 €	70	107	43 - 99
E-X 16 BZ 6.3 x 130	01111703	90,70 €	70	122	58 - 114
E-X 16 BZ 6.3 x 150	01111803	104,60 €	70	142	78 - 134
E-X 16 BZ 6.3 x 175	01111903	127,90 €	70	167	103 - 159
E-X 16 BZ 6.3 x 200	01112003	163,60 €	70	192	128 - 184
E-X 16 BZ 6.3 x 220	01112103	184,00 €	70	212	148 - 204
E-X 16 BZ 6.3 x 240	01112203	205,20 €	70	232	168 - 224
E-X 16 BZ 6.3 x 260	01112303	224,95 €	70	252	188 - 244
E-X 16 BZ 6.3 x 280	01112403	245,30 €	70	272	208 - 264
E-X 16 BZ 6.3 x 300	01112503	265,40 €	70	292	228 - 284



Zulassungen

CE - ETA



Aus Lagervorrat lieferbar, Preise auf Anfrage:
- Mit größeren Dichtscheiben
- Edelstahl A4
- Schlüsselweite 8 mm
- Farbige Befestiger

Diametru pregaurire	
Otel, t Bauteil II [UK]	
1.25 - 1.5mm	5.0mm
2.0 - 4.0mm	5.3mm
6.0mm	5.5mm
ab 7.0mm	5.7mm

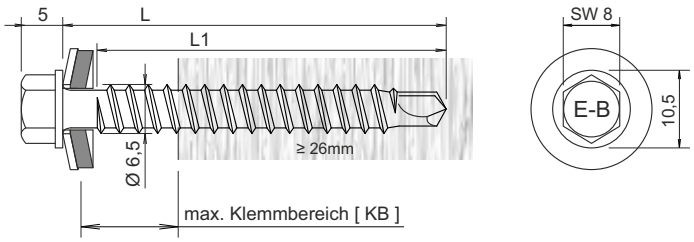
Substructuri din lemn

Șuruburi speciale autoperforante din oțel călit

- vârf de perforare redus
- protejate anticoroziv
- livrate cu saiba EPDM
- pentru fixarea tablelor pe substructuri din lemn



Gama de produse			Technic		
Denumire produs	Artikel-nummer	Scheibe Ø 16mm	L1 [mm]	FL [mm]	Pachet min.- max. [mm]
TIMTAPP RS 16 6.5 x 38	72460863		38	21	0 - 1
TIMTAPP RS 16 6.5 x 50	72461063		50	33	0 - 13
TIMTAPP RS 16 6.5 x 70	72461263	otel zincat	50	53	18 - 33
TIMTAPP RS 16 6.5 x 80	72461363		50	63	28 - 43
TIMTAPP RS 16 6.5 x 90	72461463		50	73	38 - 53

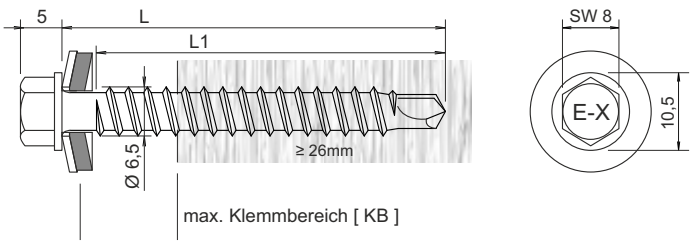


Suruburi autoperforante di otel inoxidabil A2

- vârf de perforare redus
- cu saiba din otel inox A2 cu EPDM vulcanizat
- pentru fixarea tablelor pe substructuri din lemn



Bruttopreise €/100 Stück			Technik	
Bezeichnung	Artikel-nummer	Mit Edelstahl-scheibe Ø 16mm	L1 [mm]	KB min.- max. [mm]
E-X BOHR RS 16 6.5 x 38	72011023	57,25 €	34	0 - 5
E-X BOHR RS 16 6.5 x 50	72011103	64,90 €	46	0 - 17
E-X BOHR RS 16 6.5 x 65	72011203	71,90 €	61	0 - 32
E-X BOHR RS 16 6.5 x 80	72011303	98,45 €	75	0 - 47
E-X BOHR RS 16 6.5 x 100	72011703	111,45 €	75	23 - 67



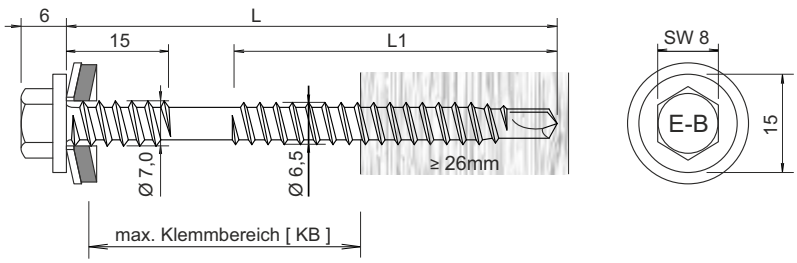
Structuri din lemn sau beton

Șuruburi speciale autofiletante din oțel călit

- varf conic de intrare in material
- protejate anticoroziv **Corroshield OC - Test 500 ore in atmosfera salina**
- cu șaibe de etanșare 19 mm premontate din oțel galvanizat, cu EPDM vulcanizat
- pentru fixarea panourilor termoizolante pe structuri din lemn sau beton



Gama deproduse otel acoperit OC			Technic	
Denumire produs	Artikel-nummer	Cu saiba EPDM Ø 19 mm	L1 [mm]	KB min.- max. [mm]
CONTAPP B-FIX -6.3/6.8 x 100	72463800233		57	41 - 60
CONTAPP B-FIX -6.3/6.8 x 130	72464100233		77	51 - 90
CONTAPP B-FIX -6.3/6.8 x 155	72464200233		77	71 - 110
CONTAPP B-FIX -6.3/6.8 x 185	72464400233		77	101 - 140
CONTAPP B-FIX -6.3/6.8 x 210	72464600233		77	121 - 160
CONTAPP B-FIX -6.3/6.8 x 230	72464800233		77	141 - 180
CONTAPP B-FIX -6.3/6.8 x 250	72465000233		77	161 - 200



ADANCIME DE FIXARE min 26mm

Cerinte suplimentare:

- Pentru lemn de esenta foarte tare se recomanda pregaurie d=5~5,5 mm
- Pentru structuri din beton trebuie pregaurire cu burghiu de 5 sau 5,5 mm

Burghie pentru beton SDS+:

- burghie de calitate superioara pentru gauri in beton precomprimat
- necesare la montajul panourilor cu suruburi autofiletante pe structuri din beton

Burghie beton SDS +		
Burghiu Beton SDS+ Ø5,5 x 410 x 350 mm 240231425387	1	
Burghiu Beton SDS+ Ø5,5 x 350 x 300 mm 240231425239	1	
Burghiu Beton SDS+ Ø5,5 x 310 x 260 mm 240231425228	1	
Burghiu Beton SDS+ Ø5,5 x 260 x 210 mm 240231425205	1	
Burghiu Beton SDS+ Ø5,5 x 210 x 170 mm 012105510	1	
Burghiu Beton SDS+ Ø5,5 x 160 x 100 mm 0121055160	1	



Substructuri din otel

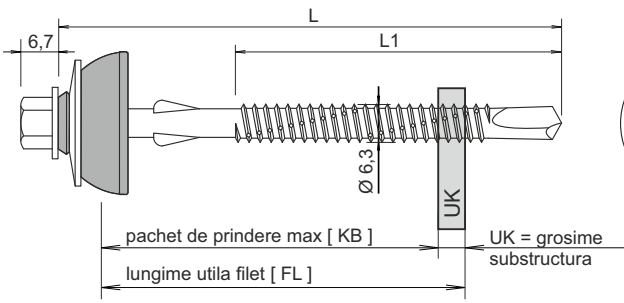
Perforare 2.0 ~ 12.0 mm

Șuruburi speciale autoperforante din oțel călit

- protectie anticoroziva lac organic Corroshield OC
- cu saiba speciala (FK) Ø 25mm din EPDM si saiba otel inox A2 Ø 22mm
- pentru fixarea plăcilor ondulate din fibrociment la substructurile din oțel

Preturi de lista €/100 buc			Technis		
Denumire produs	Artikel-nummer	Mit Form-kappe Ø 25mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
DDBS 3 FK 6.3 x 105	71271588		50	81	45 - 76
DDBS 3 FK 6.3 x 115	71271688		60	91	45 - 86
DDBS 3 FK 6.3 x 125	71271788		60	101	55 - 96
DDBS 3 FK 6.3 x 145	71271888		60	121	75 - 116
DDBS 3 FK 6.3 x 175	71271988		60	151	105 - 146
DDBS 3 FK 6.3 x 200	71272088		60	176	130 - 171
DDBS 3 FK 6.3 x 230	71272188		60	206	160 - 201

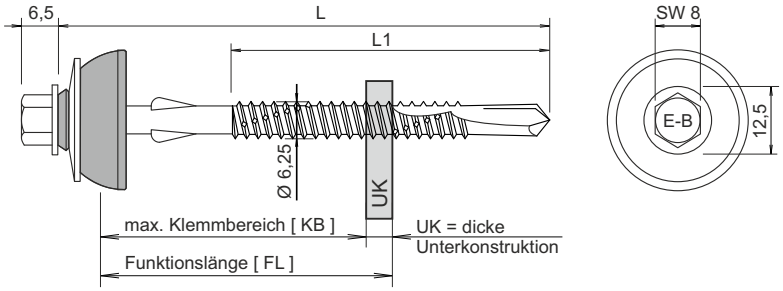




GROSIME SUBSTRUCTURA 5.0mm



Bruttopreise €/100 Stück			Technik		
Bezeichnung	Artikel-nummer	Mit Form-kappe Ø 25mm	L1 [mm]	FL [mm]	KB min.- max. [mm]
DDBS 5 FK B 6.3 x 110	71281588	79,10 €	55	76	45 - 64
DDBS 5 FK B 6.3 x 120	71281688	88,10 €	65	86	45 - 74
DDBS 5 FK B 6.3 x 130	71281788	92,80 €	65	96	55 - 84
DDBS 5 FK B 6.3 x 145	71281888	101,65 €	65	111	70 - 99
DDBS 5 FK B 6.3 x 175	71281988	112,60 €	65	141	100 - 129
DDBS 5 FK B 6.3 x 200	71282088	143,95 €	65	166	125 - 154
DDBS 5 FK B 6.3 x 235	71282188	169,75 €	65	201	160 - 189



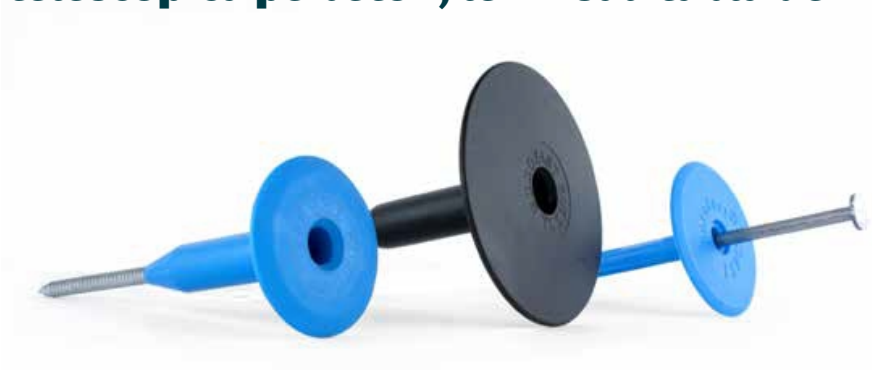
GESAMTBOHRLEISTUNG 12.5mm

Fixarea telescopica a termohidroizolatiilor

Eurofast este cel mai mare producator european pentru fixari mecanice la termohidroizolatii.

- Fixari certificate tehnic european prin **Agrement Tehnic European ETA-23/0651**
- Suruburi cu acoperire organica Eurofast 15C 15-cycles Kesternich
- Ciuperci din poliamida (albastre), polipropilena (negre), simple sau cu tepi

Fixarea telescopica pe beton, lemn sau tabla de max 2x1.0mm



- Fixarea mecanica termohidroizolatiilor la acoperis plan pe suport din tabla cutata, lemn sau beton, etc. se realizeaza prin intermediul unui ansamblu Ciuperca +Surub

S/N	DESCRIERE PRODUS	Grosime izolatie mm	Buc / Bax
	Ansamblu Fixare IZOLATIE pe TABLA CUTATA		
	Ciuperca TKL 65 + Surub EDS-B 4,8 x 70 mm	100 mm	**100**
	Ciuperca TKL 85 + Surub EDS-B 4,8 x 70 mm	120 mm	**100**
	Ciuperca TKL 105 + Surub EDS-B 4,8 x 70 mm	140 mm	**100**
	Ciuperca TKL 135 + Surub EDS-B 4,8 x 70 mm	160 mm	**100**
	Ciuperca TKL 165 + Surub EDS-B 4,8 x 70 mm	200 mm	**100**
	Ciuperca TKL 185 + Surub EDS-B 4,8 x 70 mm	220 mm	**100**



	Ansamblu Fixare izolatie pe BETON		
	Ciuperca TKL 65 + Surub EFHD 6,3 x 70 mm	80	**100**
	Ciuperca TKL 65 + Surub EFHD 6,3 x 100 mm	100	**100**
	Ciuperca TKL 85 + Surub EFHD 6,3 x 100 mm	120	**100**
	Ciuperca TKL 105 + Surub EFHD 6,3 x 70 mm	140	**100**
	Ciuperca TKL 105 + Surub EFHD 6,3 x 100 mm	160	**100**
	Ciuperca TKL 135 + Surub EFHD 6,3 x 100 mm	200	**100**
	Ciuperca TKL 135 + Surub EFHD 6,3 x 140 mm	240	**100**



Fixarea rigida a termohidroizolatiilor

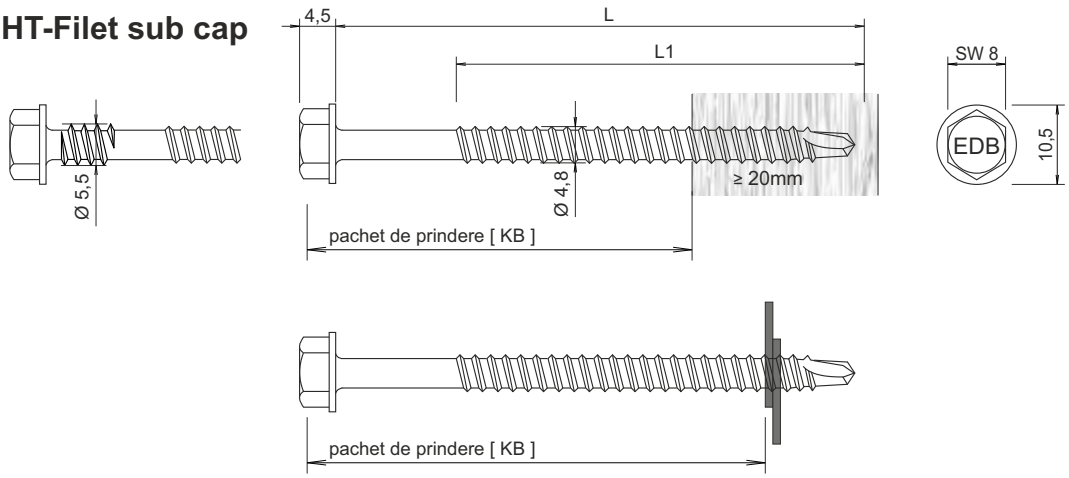
Eurofast este cel mai mare producator european pentru fixari mecanice la termohidroizolatii.

- Fixari certificate tehnic european prin **Agrement Tehnic European ETA-23/0651**
- in combinatie cu un taler metalic oval 82x40x1, ofera o fixare rigida a termoizolatiilor cu vata rigida pe acoperisuri plane cu lemn sau tabla pana la 2x1.0mm



Bezeichnung	Artikel-nummer	Ohne Scheibe	Technik L1 [mm]	FL [mm]	LEMN - UK KB min.-max. [mm]	OTEL-UK KB min.-max. [mm]
E-DB RS 4.8 x 50	74040700		30	39	18 - 24	18 - 37
E-DB RS 4.8 x 60	74040800		50	49	8 - 34	8 - 47
E-DB RS 4.8 x 70	74040900		50	59	18 - 44	18 - 57
E-DB RS 4.8 x 80	74041000		50	69	28 - 54	28 - 67
E-DB RS 4.8 x 110	74041300		50	99	58 - 84	58 - 97
E-DB RS 4.8 x 130	74041500		50	119	78 - 104	78 - 117
E-DB RS 4.8 x 150	74041700		50	139	98 - 124	98 - 137
E-DB RS HT 4.8 x 60	74060800		50	49	8 - 34	8 - 47
E-DB RS HT 4.8 x 80	74061000		50	69	28 - 54	28 - 67
E-DB RS HT 4.8 x 100	74061500		50	99	48 - 74	48 - 87
E-DB RS HT 4.8 x 120	74061600		50	109	68 - 94	68 - 107
E-DB RS HT 4.8 x 140	74061700		50	129	88 - 114	88 - 127
E-DB RS HT 4.8 x 160	74061800		50	149	108 - 134	108 - 147
E-DB RS HT 4.8 x 180	74061900		50	169	128 - 154	128 - 167
E-DB RS HT 4.8 x 200	74062000		50	189	148 - 174	148 - 187
E-DB RS HT 4.8 x 220	74062200		50	209	168 - 194	168 - 207
E-DB RS HT 4.8 x 240	74062400		50	229	188 - 214	188 - 227
E-DB RS HT 4.8 x 260	74062600		50	249	208 - 234	208 - 247
E-DB RS HT 4.8 x 280	74062800		50	269	228 - 254	228 - 267
E-DB RS HT 4.8 x 300	74063000		50	289	248 - 274	248 - 287

HT-Filet sub cap



Lemn: Adancime ancorare $l_{ef} \geq 20$mm
Tabla: Perforare maxima 2x1.0mm

EUROFAST®

Eurofast este cel mai mare producator european pentru fixari mecanice la termohidroizolatii.

Talere metalice rotunde sau ovale, drepte sau cu adancitura
- matriale rezistente la coroziune (aluzink)
- pentru fixarea vatei minerale la acoperisuri plane

- **DVF-EF-51N d=6,7 mm ALUZINK**



Bezeichnung	Artikel-nummer	Ohne Scheibe
Teller oval 82 x 40 x 1 HT	32000324	
Teller oval 82 x 40 x 1 TK	32000326	

- **DVF-EF-82/40N d=6,5 mm**

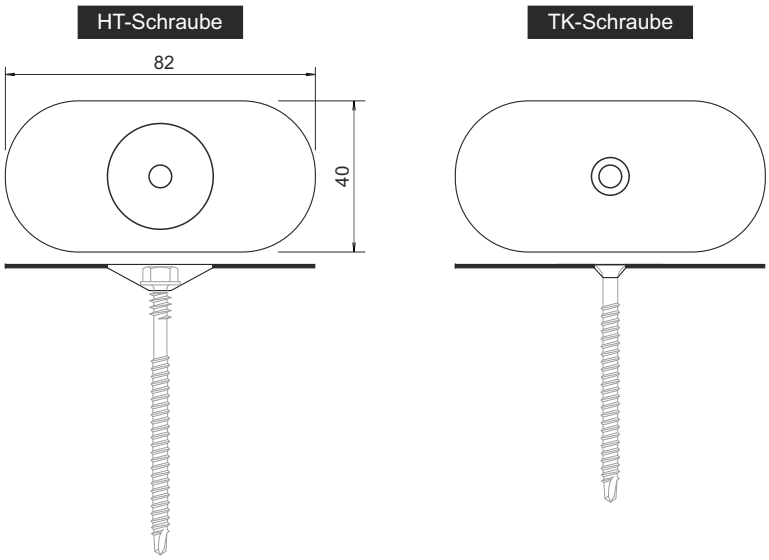


- **DVF-EF-8240H d=7.0mm**



- **DVF-EF-8240D d=6.5 mm**





- Fixari certificate tehnic european prin **Agrement Tehnic European ETA-23/0651**

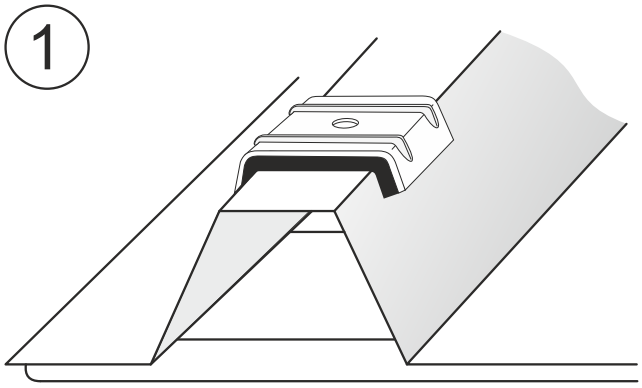
EUROFAST®

Calote de rigidizare cuta table cutate si panouri

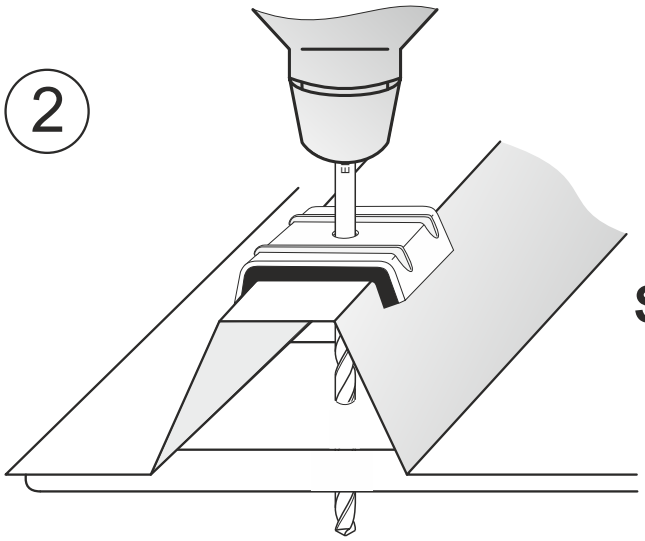
Calote din aluminiu, cu banda etansare EPDM aplicata, ce permit etansarea superioara si rigidizarea fixarilor la panouri sandwish si tabla trapez. Utilizarea acestor elemente cresc semnificativ gradul de siguranta a fixarii, permit incarcari mai mari pe o fixare, o etansare superioara a perforatiilor, evitarea deformarilor cutei la montaj, etc.

Pentru a asigura o instalare fără probleme tehnice,...

1

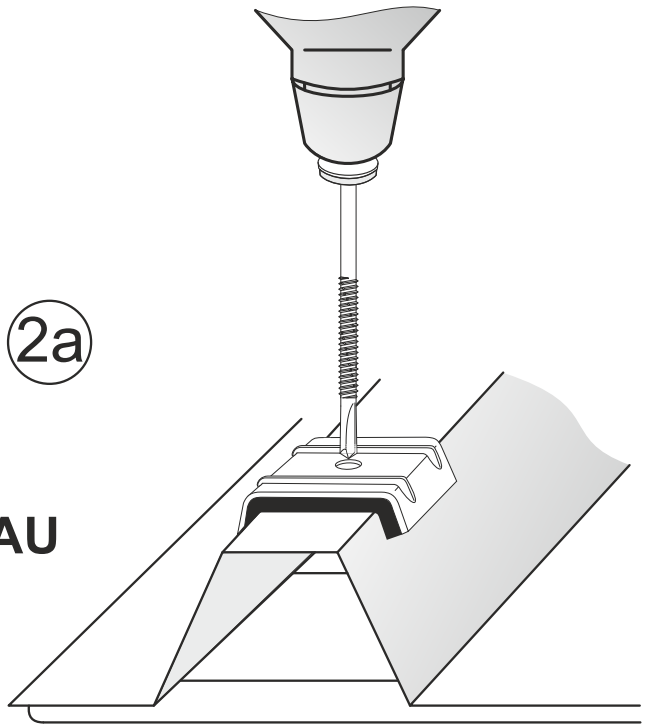


2

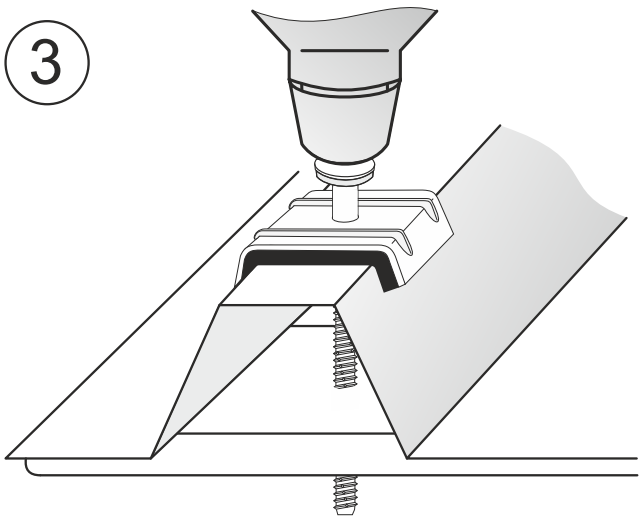


SAU

2a



3



① ... Asezati calota pe cuta superioara a tablei de fixat

② ... pentru montajul cu suruburi fara varf de perforare este necesara pregaurirea cu un burghiu...

2a ... pentru fixarea cu suruburi de panou autoperforante fixarea se face direct, fara a fi necesara o pregaurire. Gaura din calota serveste ca sablon de montaj, fixarea trecand prin calota, tabla/panou si structura din otel.

③ ... cu șurub autofiletant special METAP OCMT 5,5/6,3 x Lungime, pentru o fixare ferma pe structuri din lemn, beton sau substructura di profile de otel peste 3.0mm.

Calote de rigidizare cuta table cutate si panouri

Calote din aluminiu ramforsat
- cu banda de etansare din EPDM sau Polietilena expandata
- pentru montajul tablelor profilate si panourilor sandwish pe structuri suport.

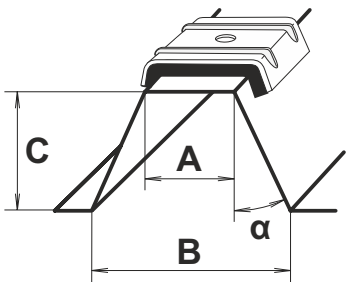
Se livreaza vopsite in culori RAL (9002, 9006, 7016, 3009, 3000, etc.)

Bruttopreise €/100 Stück					Technik	
Bezeichnung		Artikel-nummer	Blanke Kalotten	Farbige Kalotten	A [mm]	Winkel α
R 38	19/44	31062000			19	44°
G4	20/32	31134000			20	32°
Baufix 21-27° Stoc RAL 9002, 9006, 7016, 3009, 3000					21	27°
N 1000 T	23/30	31121000			23	30°
ROMA D	24/22	31191000			24	22°
39/333	24/30	31017000			24	30°
TRP 20	24/32	31031000			24	32°
Baufix 26-27° Stoc RAL 9002, 9006, 8017, 7016, 3009, 3000					25	27°
100/24	28/35	31082000			28	35°
MONTANA	30/22	31133000			30	22°
TRP 40	30/27	31032000			30	27°
KINGSPAN 32-27° RAL					32	27°
40/167	34/23	31013000			34	23°
35/203	36/36	31101000			36	36°
40/183	40/17	31052000			40	17°
Baufix 41- 39° RAL					41	39°
EKO 50	45/44	31181000			45	44°
SAB 52	50/40	31171000			50	40°
50/250	57/18	31015000			57	18°
WELLE 18/76	**R 24**				Radius 24	
WELLE 150/50	R 30	31094000			Radius 30	
WELLE 130/30	R 40	31092000			Radius 40	
WELLE 177/55	**R 48 pentru panouri cu tabla tip tigla**				Radius 48	









A Latime cuta superioara
B Latime cuta la baza
C Inaltime cuta
oder
A Latime calota
α Unghi aripa

Exemplu = Profil 26/27

A Obergurtbreite
B Lichte Weite am Untergurt
C Profilhöhe
oder
A Latime cuta
α Unghi aripa

26mm
27°

Nituri pop pentru imbinare suprapuneri de table

POP-NITURI din :

- ALU/Otel Standrd sau Etanse
- ALU/INOX,
- Cupru/Otel



Nit-pop Alu/Ot Standard			Technik	
Bezeichnung BLINDNIET	Artikel-nummer	Preis	Gaura [mm]	KB min.- max. [mm]
ALU/STAHL 4.0 x 8	10313301		4.2	2.5 - 4.5
ALU/STAHL 4.0 x 10	10313302		4.2	2.5 - 6.0
ALU/STAHL 4.0 x 16	10313306		4.2	10.0 - 12.0
ALU/STAHL 4.8 x 10	10313402		5.1	3.0 - 5.0
ALU/STAHL 4.8 x 12	10313404		5.1	4.0 - 7.0
ALU/STAHL 4.8 x 16	10313406		5.1	6.0 - 11.0

- alte dimensiuni la cerere



Nit-pop Alu/Inox			Technik	
Bezeichnung BLINDNIET	Artikel-nummer	Preis	Gaura [mm]	KB min.- max. [mm]
ALU/NIRO 4.8 x 8	10311301		4.9	2.5 - 4.5
ALU/NIRO 4.8 x 10	10311302		4.9	4.5 - 6.0
ALU/NIRO 4.8 x 12	10311304		4.9	6.0 - 8.0
ALU/NIRO 4.8 x 16	10311306		4.9	10.0 - 12.0

- alte dimensiuni la cerere



Nit-pop Inox/inox			Technik	
Bezeichnung BLINDNIET	Artikel-nummer	Preis	Vorbohren [mm]	KB min.- max. [mm]
NIRO/NIRO 4.0 x 8	10312101		4.1	2.0 - 5.0
NIRO/NIRO 4.0 x 10	10312202		4.1	3.5 - 6.5
NIRO/NIRO 4.0 x 12	10312301		4.1	5.0 - 8.0
NIRO/NIRO 4.8 x 10	10312302		4.9	4.0 - 6.0
NIRO/NIRO 4.8 x 12	10312304		4.9	6.0 - 8.0
NIRO/NIRO 4.8 x 16	10312306		4.9	9.5 - 11.0

- alte dimensiuni la cerere



Nit-pop Cupru/Ot			Technik	
Bezeichnung BLINDNIET	Artikel-nummer	Preis	Gaura [mm]	KB min.- max. [mm]
Cupru/Otel 4.0 x 8	10311301		4.9	2.5 - 4.5
Cupru/Otel 4.0 x 10	10311302		4.9	4.5 - 6.0
Cupru/Otel 4.0 x 12	10311304		4.9	6.0 - 8.0
Cupru/Otel 4.0 x 16	10311306		4.9	10.0 - 12.0

- alte dimensiuni la cerere

Nituri pop pentru imbinare suprapuneri de table

BULB-TITE, NITURI PLINE, NITURI VOPSITE RAL, NITURI CU GULER

- ALU/ALU
- ALU/OT PLINE
- ALU/OT TL 16 cu Guler larg

Nit-pop structural (garnitura)			Technic	
Denumire produs Tip BULB-TITE	Artikel-nummer	Preis	Gaura [mm]	KB min.- max. [mm]
W 3 - 5.2 x 17.5	10330003		5.3	0.5 - 4.8
W 4 - 5.2 x 19.1	10330004		5.3	1.5 - 6.4
W 6 - 5.2 x 22.2	10330006		5.3	4.8 - 9.5
W 8 - 5.2 x 25.4	10330008		5.3	7.9 - 12.7
W 10 - 5.2 x 28.6	10330010		5.3	11.1 - 15.9
W 12 - 5.2 x 31.8	10330012		5.3	14.3 - 19.1



Nit pop plin (etanș)			Technic	
Denumire produs NIT ETANS	Artikel-nummer	Preis	Gaura [mm]	KB min.- max. [mm]
ALU/NIRO 4.0 x 9.5	10321103	13,35 €	4.2	3.5 - 5.0
ALU/NIRO 4.8 x 11	10321303	13,95 €	4.9	5.0 - 6.5
ALU/NIRO 6.4 x 12.5	10321404	21,95 €	6.6	6.5 - 8.0



Nit pop vopsit RAL			Technic	
Denumire produs NIT ETANS	Artikel-nummer	Preis	Gaura [mm]	KB min.- max. [mm]
ALU/NIRO 4.0 x 10 RAL	10321103	13,35 €	4.2	1.0 - 6.0
ALU/NIRO 4.0 x 12 RAL	10321303	13,95 €	4.2	3.0 - 7.5
ALU/NIRO 4.8 x 12 RAL	10321404	21,95 €	5.0	4.5 - 8.0



- RAL STOC: 9010, 9007, 9005, 9002, 8019, 8017, 8004, 7024, 7016, 6020, 6005, 5010, 5005, 3011, 3009, 3000, 7035, 1001, 2011, etc.



Suruburi pentru fixarea structurilor din lemn



TIMTAPP® GRIP / STRUCTURAL SCREWS

FIXING LIGHT & HEAVY TIMBER CONSTRUCTIONS TO TIMBER SUBSTRATE



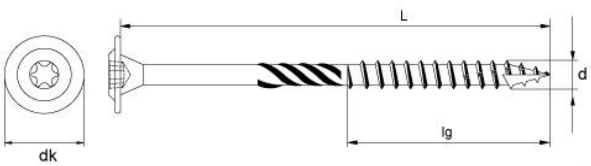
TIMTAPP® GRIP
BUTTON WASHER HEAD

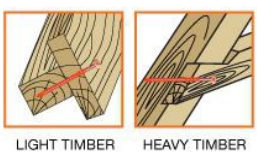


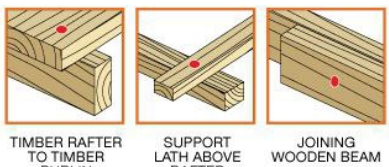
Ø Diameter (d)	L (mm)	lg (mm)	dk (mm)
6	60	42	14
6	80	50	14
6	100	50	14

FEATURES

- Material : Carbon Steel
- Button Washer Head (BWH)
- Torx Drive
- Partial Thread with Cleanchaf™
- Groove Thread
- T17™ Drill Point
- Min embedment (25mm) Timber







Coating options:

CORROSHIELD FASTENERS

OC SR CS HD

*Please refer to page 4 for more coating information.



CORROSHIELD FASTENERS

Suruburi pentru fixarea structurilor din lemn

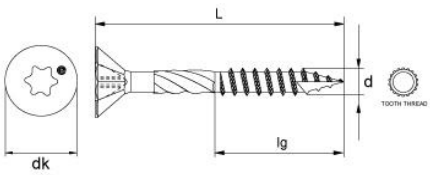
TIMTAPP® +Plus



Ø Diameter (d)	L (mm)	lg (mm)	dk (mm)
4	35	23	7.75
4	40	27	7.75
4	45	30	7.75
4	50	30	7.75
4	60	36	7.75
4	70	42	7.75
4	80	48	7.75
5	40	27	9.75
5	50	30	9.75
5	60	36	9.75
5	70	42	9.75
5	80	48	9.75
5	90	54	9.75
5	100	60	9.75
6	60	36	11.75
6	70	42	11.75
6	80	48	11.75
6	90	54	11.75
6	100	60	11.75
6	120	72	11.75
6	130	75	11.75
6	150	75	11.75
6	180	80	11.75

FEATURES

- Material : Carbon Steel
- Countersunk w/6 Ribs (CSK)
- Torx Drive
- Partial Thread with Cleanchaf™
- Tooth Thread™
- TY™ 17 Drill Point
- Min embedment (25mm) Timber



Drive options:





CHIPBOARD ON WOODEN BEAM | TIMBER RAFTER TO TIMBER PURLIN | SUPPORT LATH ABOVE RAFTER

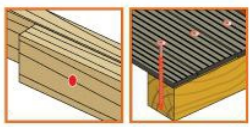
Coating options:

CORROSHIELD: OC, SR, CS, HD

TAPPERMAN: YZ

*Please refer to page 4 for more coating information.





JOINING WOODEN BEAM | TERRACE BOARD TO TIMBER PURLIN

Note: Max Clamp Thickness is calculated by allowance of 3 full threads extension beyond the substrates.

Suruburi pentru fixarea structurilor din lemn

TIMTAPP® GRIP
BUTTON WASHER HEAD

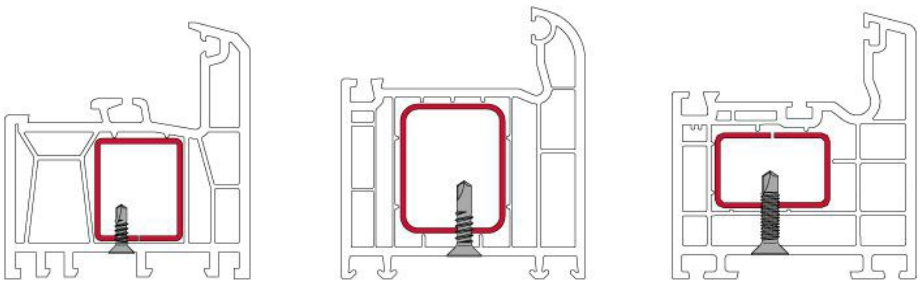
Ø Diameter (d)	L (mm)	lg (mm)	dk (mm)
6	120	50	14
6	140	70	14
6	160	70	14
6	180	70	14
6	200	70	14
6	220	70	14
6	240	70	14
6	260	70	14
6	280	70	14
6	300	70	14
8	80	50	22
8	100	50	22
8	120	80	22
8	140	80	22
8	150	80	22
8	160	80	22
8	170	80	22
8	180	80	22
8	200	80	22
8	220	80	22
8	240	80	22
8	260	80	22
8	280	80	22
8	300	80	22
8	320	80	22
8	340	80	22
8	360	80	22
8	380	80	22
8	400	80	22
10	160	80	25
10	170	80	25
10	180	80	25
10	200	80	25
10	220	80	25
10	240	80	25
10	260	80	25
10	280	80	25
10	300	80	25
10	320	80	25
10	340	80	25
10	360	80	25
10	380	80	25
10	380	80	25



WINDOW PRODUCTION SCREWS

WINDOW PRODUCTION

APPLICATION GUIDE



For fixing reinforced steel up to 3.0 mm in PVC windows with tight fitting reinforcement



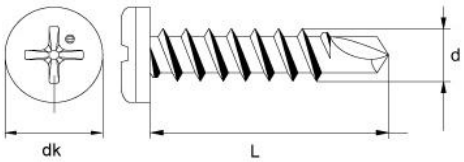
WINTAPP®



Ø Diameter (d)	L (mm)	dk (mm)
3.9	10	7.5
3.9	13	7.5
3.9	16	7.5
3.9	19	7.5

FEATURES

- Material : Carbon Steel
- Pan Head
- Phillips Drive
- Full Thread
- LEVIN® Drill Point
- Options : Automated Assembly
  Manual Assembly



Coating options:

CORROSHIELD OC

TAPPERMAN CZ

*Please refer to page 4 for more coating information.

Deep Drive

Anti-Corrosion

RAL Colour Matched



FRAME ASSEMBLY

CORROSHIELD FASTENERS

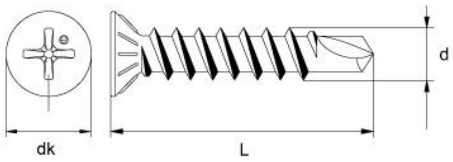
WINTAPP®



Ø Diameter (d)	L (mm)	dk (mm)
3.9	10	7.5
3.9	13	7.5
3.9	16	7.5
3.9	19	7.5

FEATURES

- Material : Carbon Steel
- Countersunk Head
- Phillips Drive
- 6 Underhead Ribs
- Full Thread
- LEVIN® Drill Point
- Options : Automated Assembly
  Manual Assembly



Coating options:

CORROSHIELD FASTENERS — OC

TAPPERMAN FASTENERS — CZ

*Please refer to page 4 for more coating information.





FRAME ASSEMBLY

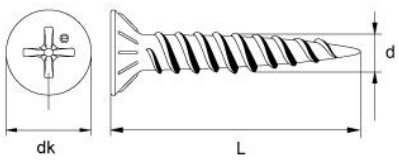
WINTAPP®



Ø Diameter (d)	L (mm)	dk (mm)
4.2	19	6.75
4.2	22	6.75
4.2	25	6.75
4.2	32	6.75
4.2	38	6.75
4.2	45	6.75
4.2	50	6.75
4.2	55	6.75

FEATURES

- Material : Carbon Steel
- Countersunk Head
- Phillips Drive
- 6 Underhead Ribs
- Full Thread
- Needle Drill Point
- Options : Automated Assembly
  Manual Assembly







FRAME ASSEMBLY

Coating options:

CORROSHIELD FASTENERS — OC

TAPPERMAN FASTENERS — CZ

*Please refer to page 4 for more coating information.

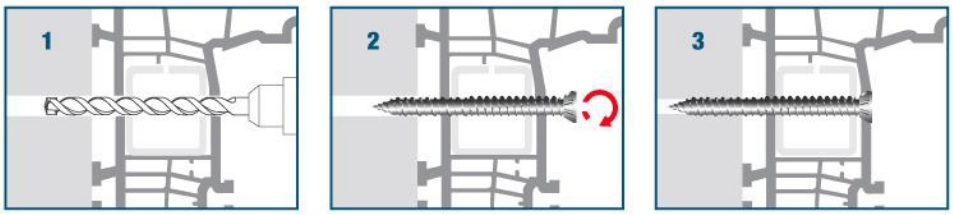
CORROSHIELD FASTENERS



WINDOW INSTALLATION SCREWS

WINDOW OR DOOR FRAME INSTALLATION SCREW INTO CONCRETE

INSTALLATION GUIDE: PRE-DRILL REQUIRED FOR CONCRETE SUBSTRATE



WINTAPP®
UNDERCUT FLAT HEAD



Ø Diameter (d)	L (mm)	dk (mm)
7.5	42	11.5
7.5	52	11.5
7.5	62	11.5
7.5	72	11.5
7.5	82	11.5
7.5	92	11.5
7.5	102	11.5
7.5	112	11.5
7.5	122	11.5
7.5	132	11.5
7.5	152	11.5
7.5	182	11.5
7.5	202	11.5
7.5	212	11.5
7.5	252	11.5
7.5	302	11.5

FEATURES

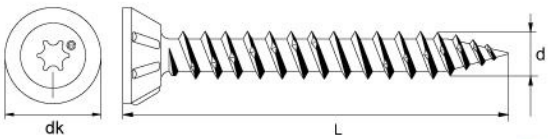
- Material : Carbon Steel
- Undercut Flat Head (UFH)
- Torx Drive
- 6 Underhead Ribs
- Full Thread + Grooved
- Gimlet Drill Point

Coating options:

CORROSHIELD OC

TAPPERMAN CZ

*Please refer to page 4 for more coating information.







CORROSHIELD® FASTENERS

Elemente pentru etansare la constructii metalice

Bureti profilati pentru inchidere goluri coama-streasina

- din polietilena expandata cu celula inchisa
- culoare gri antracit
- pentru inchiderea golurilor la coama/strasina (opresc surplusul de apa, vant, frunze, etc.)

S/N	DESCRIERE PRODUS	Buc/ Cutie
1	**Burete profilat panou 5 cute** - ISOPAN, Coilprofil, Plastsistem, Topanel, MBS	100
2	**Burete profilat panou 4 cute** - Megaprofil, Kingspan KS100	100
3	**Burete profilat panou 3 cute** - ISOPAN, Plastsistem	100
1	**Burete profilat Tabla T35** - Proinvest APE/PPE 35	100
2	**Burete profilat Tabla T45** _ Proinvest APE/PPE 45,	100
3	**Burete profilat panou T20** - Proinvest APE/PPE 20	100
1	**Burete profilat tabla trapez T150**	100



Bandă PE adeziva pentru punti termice

- din polietilena expandata cu celula inchisa caserata in silicon
- adeziva pe o parte, culoare gri antracit
- pentru punti termice si preluare denivelari la suprapuneri table pe structuri

S/N	DESCRIERE PRODUS	ml/Role	Buc / Bax
1	**Banda PE 40mm width x 4mm (thickness) x 15 mtr**	15	48
2	**Banda PE 50mm width x 3mm (thickness)x 15 mtr**	15	48
3	**Banda PE 20mm width x 3mm (thickness) x 15 mtr**	15	72
4	**Banda PE 9mm width x 3mm (thickness) x 15 mtr**	15	144



Bandă Butyl preformata

- din cauciuc butilic de inalta performanta
- aderent pe orice suprafata (tabla, lemn, beton) ramane elastic dupa intarire
- pentru lipirea si etansarea suprapunerilorde materiale in constructii.

6	**Butyl tape 8 x 3mm (thickness) x 15m/roll**	15	17
7	**Butyl tape 18x3mm (thickness) x 15m/roll**	15	10
8	**Butyl tape 20x3mm (thickness) x 15m/roll**	15	10



Mansoane etansare strapungeri teava

Master Flash Standard - Mansoane etansare din EPDM ce se monteaza prin tragere pe teava pe sus. Fixarea se face prin ad
unui adeziv siliconic superior intre talpa mansonului prevazuta cu rizuri si tabla acoperisului + fixare mecanica cu surub cap re

S/N	DESCRIERE PRODUS	Diametru teava	Buc / Bax
1	Master Flash Standard MF mini (0 - 25 mm)	0 - 25 mm	Stoc
	Master Flash Standard MF1 (0 - 70 mm)	0 - 70 mm	Stoc
2	Master Flash Standard MF2 (15 - 101 mm)	15 - 101 mm	Stoc
	Master Flash Standard MF3 (20 - 146 mm)	20 - 146 mm	Stoc
3	Master Flash Standard MF4 (70 - 177 mm)	70 - 177 mm	Stoc
	Master Flash Standard MF5 (101 - 209 mm)	101 - 209 mm	Stoc
4	Master Flash Standard MF6 (121 - 254 mm)	121 - 254 mm	Stoc
	Master Flash Standard MF7 (152 - 279 mm)	152 - 279 mm	Stoc
4	Master Flash Standard MF8 (171 - 304 mm)	171 - 343 mm	Stoc
	Master Flash Standard MF9 (241 - 520 mm)	241 - 520 mm	Stoc
5	Master Flash Standard MF MAXI (304 - 724 mm)	304 - 724 mm	Stoc
	Master Flash Standard MF MAXI XL (254 - 1000 mm)	254 - 1000 mm	Stoc



Master Flash MULTI - Mansoane etansare din EPDM ce se monteaza prin tragere pe teava pe sus sau prin lateral prin d2cu
fantei preformate, inchidere cu clips inox inox si adeziv. Fixarea se face prin adaugarea unui adeziv siliconic superior intre ta
mansonului prevazuta cu rizuri si tabla acoperisului + fixare mecanica cu surub cap redus

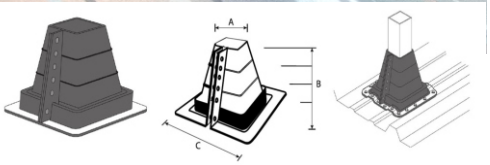
S/N	DESCRIERE PRODUS	Diametru teava	Buc / Bax
1	Master Flash MULTI - MFM2 - (15-101mm) + Clips inox	15-101mm	Stoc
	Master Flash MULTI - MFM3 20-146mm + Clips inox	0-146mm	Stoc
2	Master Flash MULTI - MFM4 69-177mm + Clips inox	69-177mm	Stoc
	Master Flash MULTI - MFM5 101-203mm + Clips inox	101-203mm	Stoc
3	Master Flash MULTI - MFM6 121-254 mm + Clips inox	121-254 mm	Stoc
	Master Flash MULTI - MFM7 152-279mm + Clips inox	152-279mm	Stoc
4	Master Flash MULTI - MFM8 171-304mm + Clips inox	171-304mm	Stoc
	Master Flash MULTI - MFM9 241-520mm + Clips inox	241-520mm	Stoc
5	Master Flash MULTI - MFM MAXI 304-723mm + Clips inox	304-723mm	Stoc
	Adeziv original Aztec 40 gr	40 gr	



Master Flash RETROFIT - Mansoane etansare despicate din fabricatie, din EPDM ce se monteaza prin lateral prin inchidere
si adeziv. Fixarea se face prin adaugarea unui adeziv siliconic superior intre talpa mansonului prevazuta cu rizuri si tabla acoper
fixare mecanica cu surub cap redus

S/N	DESCRIERE PRODUS	Diametru teava	Buc / Bax
1	Master Flash RETROFIT - MFRF1 - (22-101mm)	22 -101	
2	Master Flash RETROFIT - MFRF2 - (101-228mm)	101 - 228	
3	Master Flash RETROFIT - MFRF3 - (241-431 mm)	241 -431	
1			
	Master Flash SQUARE VENT Multi MFSQ1 0-127mm	0-101mm	Stoc
2	Master Flash SQUARE VENT Multi MFSQ2 0-254mm	0-254mm	Stoc
	Master Flash SQUARE VENT Multi MFSQ3 0-488mm	0-488mm	Stoc
	Master Flash Solar	EPDM BLACK	
	MF SOLAR 19-28mm	19-28mm	Stoc

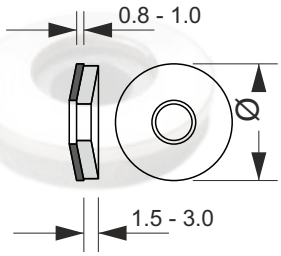




Elemente de etansare

Saube de etansare pentru suruburi cu EPDM vulcanizat

- Saibe din otel inoxidabil cu EPDM
- Saibe din aluminiu cu EPDM
- Saibe din otel zincat cu EPDM
- pentru etansarea sub capul surubului a fixarilor la inchideri pe structuri

Saibe de etansare suruburi				Technic
Diametre saiba (gaura interioara de 5.5; 6.0; 6.7; 8.5; 11.0)	Saiba INOX	Saiba ALU	Saiba otel zincat	
Ø 12mm	4,45 €	3,85 €	2,90 €	
Ø 14mm	5,30 €	3,85 €	3,55 €	
Ø 16mm	6,40 €	4,45 €	4,15 €	
Ø 19mm	8,15 €	5,85 €	5,50 €	
Ø 22mm	11,55 €	8,00 €	7,50 €	
Ø 25mm	15,55 €	11,00 €	10,45 €	
Ø 29mm	19,20 €	13,95 €	13,20 €	
Bei Bestellung muss der Innendurchmesser angegeben werden.				

Capacele acoperire cap surub hexagonal

Capacele cu hexagon SW8
- din plastic vopsit in masa in culori RAL
- **acopera capul surubului si saiba de 16 si 19 mm**
- disponibile in toate culorile RAL uzuale

Bruttopreise €/100 Stück

Bezeichnung	Artikel-nummer	Preis
Abdeckkappe SW3/8 Ø 19 MM	080019009	
Abdeckkappe SW3/8 Ø 25 MM	080025009	
Abdeckkappe SW3/8 Ø 29 MM	080029009	
Abdeckkappe SW 8 Ø 19 MM	081016009	
Abdeckkappe SW 8 Ø 19 MM	081019009	





MIRAD TEHNIC
FIXARI SI ETANSARI IN CONSTRUCTII

Burghie pentru metal

Hochwertige HSS-Spiralbohrer
- abgestimmt auf die verschiedenen Schrauben und Nieten
- Kernausspitzung
- rechtsschneidend
- Spirallänge 30mm



Bruttopreise €/Stück

Ø	Bohrerlänge [mm] 46-70	90	135	185	205	260	280	Ø
Ø 3.0	1,45 €	2,15 €	2,55 €	—	—	—	—	Ø 3.0
Ø 3.1	1,50 €	—	2,60 €	—	—	—	—	Ø 3.1
Ø 3.3	1,50 €	—	2,60 €	—	—	—	—	Ø 3.3
Ø 3.5	1,50 €	2,15 €	2,60 €	—	—	—	—	Ø 3.5
Ø 4.0	1,70 €	—	3,25 €	—	—	—	—	Ø 4.0
Ø 4.1	1,70 €	2,00 €	3,30 €	—	—	—	—	Ø 4.1
Ø 4.2	1,70 €	2,05 €	3,30 €	—	—	—	—	Ø 4.2
Ø 4.3	—	2,05 €	—	—	—	—	—	Ø 4.3
Ø 4.5	1,80 €	2,05 €	3,85 €	—	—	—	—	Ø 4.5
Ø 4.7	1,80 €	2,40 €	3,85 €	—	—	—	—	Ø 4.7
Ø 4.8	2,05 €	2,40 €	4,00 €	—	—	—	—	Ø 4.8
Ø 4.9	2,05 €	2,40 €	4,00 €	—	—	—	—	Ø 4.9
Ø 5.0	2,05 €	2,60 €	4,20 €	8,55 €	10,55 €	11,55 €	12,05 €	Ø 5.0
Ø 5.1	2,05 €	2,60 €	4,35 €	—	—	—	—	Ø 5.1
Ø 5.2	2,05 €	2,60 €	4,35 €	—	10,55 €	—	—	Ø 5.2
Ø 5.3	2,35 €	2,60 €	4,35 €	8,55 €	10,55 €	11,55 €	—	Ø 5.3
Ø 5.4	—	—	—	—	10,55 €	—	—	Ø 5.4
Ø 5.5	2,35 €	3,00 €	4,35 €	8,55 €	10,55 €	11,55 €	15,30 €	Ø 5.5
Ø 5.6	2,35 €	3,00 €	4,35 €	—	—	—	—	Ø 5.6
Ø 5.7	2,35 €	3,00 €	4,80 €	8,55 €	10,55 €	12,30 €	16,05 €	Ø 5.7
Ø 5.8	2,35 €	3,00 €	4,80 €	8,55 €	10,55 €	12,30 €	16,05 €	Ø 5.8
Ø 5.9	2,35 €	3,00 €	4,80 €	8,55 €	10,55 €	12,30 €	16,05 €	Ø 5.9
Ø 6.0	2,35 €	3,20 €	4,80 €	8,55 €	11,55 €	—	—	Ø 6.0
Ø 6.5	2,85 €	—	—	—	—	—	—	Ø 6.5

Vorbohrtabelle



Typ A

Stahl Trägerstärke	vorbohren Ø	Holz
0.63 mm	3.5mm	4.8mm
0.75 mm	4.0mm	
0.88 - 1.25 mm	4.5mm	
1.5 - 3.0 mm	5.0mm	



Typ BZ

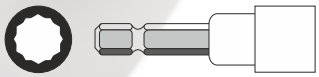
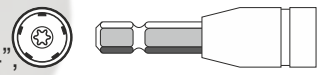
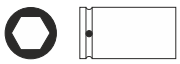
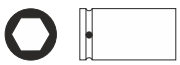
Stahl Trägerstärke	vorbohren Ø
1.25 - 1.5mm	5.0mm
2.0 - 4.0mm	5.3mm
6.0mm	5.5mm
ab 7.0mm	5.7mm

Chei hexagonale

Chei hexagonale pentru suruburi autoperforante sau suruburi fixare structuri

- chei hexagonale cu coada pentru surubelnite
- Kernausspitzung
- rechtsschneidend
- Spirallänge 30mm

Bruttopreise €/Stück

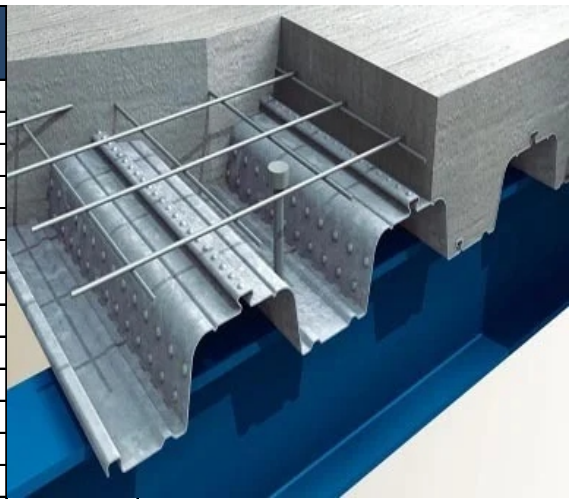
Denumire produs	Artikel-nummer	Preis / Stück
Cheie hexagonala cu coada 1/4” 		
SW 3/8” fara magnet	09100024	
SW 8 fara magnet	09100004	
Sw6, SW7, SW 8, SW10, Sw13, Sw17, SW3/8 cu Magnet	09100002	
Steckschlüssel mit Schaft 1/4” 		
SW 11 für BI-HEX	09100050	
Cheie torx T25, T20 cu coada 1/4”, 		
TORX T25, T20	09100100	
Steckschlüsseleinsatz 1/4" 		
SW 3/8”	09201100	
SW 8	09200100	
Tubulare simple sau de impact 		
* Antrenare 1/4 , 1/2, 3/8, 3/4, 1 Tol	09201300	
* Chei tubulare de la SW 8 pana la SW 64	09200300	
Antrenor pentru 1/4” x 3/8” 	09105000	

Conectori de forfecare TECNARIA

Conectori de forfecare Tecnaria CTF – plansee compuse otel-beton

- realizarea planseelor mixte otel-beton ofera avantaje de natura statica si economica.
- conectori fixati la rece cu bolturi din otel de inalta rezistenta cu ajutorul unor pistoale speciale
- fixarea conectorilor nu afecteaza si nu este afectat de tratamentul de suprafata al grinzii

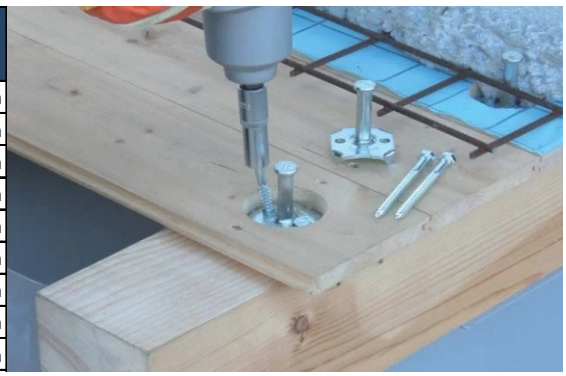
S/N	DESCRIERE PRODUS	Lungime conector
1	Conector CTF 020 CC + 2 capse + 2 bolturi	12 X 020 mm
	Conector CTF 025 CC + 2 capse + 2 bolturi	12 X 025 mm
2	Conector CTF 030 CC + 2 capse + 2 bolturi	12 X 030 mm
	Conector CTF 040 CC + 2 capse + 2 bolturi	12 X 040 mm
3	Conector CTF 060 CC + 2 capse + 2 bolturi	12 X 060 mm
	Conector CTF 070 CC + 2 capse + 2 bolturi	12 X 070 mm
4	Conector CTF 080 CC + 2 capse + 2 bolturi	12 X 080 mm
	Conector CTF 090 CC + 2 capse + 2 bolturi	12 X 090 mm
	Conector CTF 105 CC + 2 capse + 2 bolturi	12 X 105 mm
4	Conector CTF 125 CC + 2 capse + 2 bolturi	12 X 125 mm
	Conector CTF 135 CC + 2 capse + 2 bolturi	12 X 135 mm
	Conector Diapason CTF D 100 CC 55 x 100 + 4 capse + 4 bolt	55 X 100 mm
	Conector Diapason CTF D 125 CC 55 x 125 + 4 capse + 4 bolt	55 X 125 mm



Conectori de forfecare Tecnaria CTL Base sau Maxi – plansee compuse lemn-beton

- realizarea de podele din lemn existente – reconditionare plansee, reabilitari si renovari
- realizarea de plansee noi din lemn – cladiri noi sau plansee reconditionate complet
- conectorul tip CTL se fixeaza in contact direct cu grinda de lemn cu suruburi

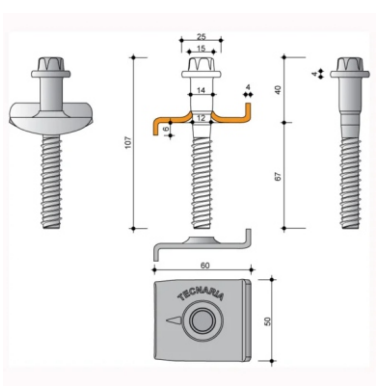
S/N	DESCRIERE PRODUS	Lungime conector
1	Conector lemn-beton CTLB 020 12 X 020 + 2 sur Ø 8x120 mm	12 X 020 mm
	Conector lemn-beton CTLB 030 12 X 030 + 2 sur Ø 8x120 mm	12 X 030 mm
2	Conector lemn-beton CTLB 040 12 X 040 + 2 sur Ø 8x120 mm	12 X 040 mm
	Conector lemn-beton CTLB 050 12 X 050 + 2 sur Ø 8x120 mm	12 X 050 mm
3	Conector lemn-beton CTLB 060 12 X 060 + 2 sur Ø 8x120 mm	12 X 060 mm
	Conector lemn-beton CTLB 080 12 X 080 + 2 sur Ø 8x120 mm	12 X 080 mm
4	Conector lemn-beton CTLB 105 12 X 105 + 2 sur Ø 8x120 mm	12 X 105 mm
	Conector lemn-beton CTLB 125 12 X 125 + 2 sur Ø 8x120 mm	12 X 125 mm
	Conector lemn-beton CTLB 150 12 X 150 + 2 sur Ø 8x120 mm	12 X 150 mm



Conectori de forfecare Tecnaria CTCEM – plansee compuse beton-beton

- Crearea planseelor circulabile din plansee nearmate – cazul planseelor fara trafic
- Cresterea rigiditatii – cazul planseelor slabe datorita sectiunii mici sau lipsa armarii
- Cresterea rezistentei – cazul cresterii sarcinilor de proiectare, schimbare destinatie





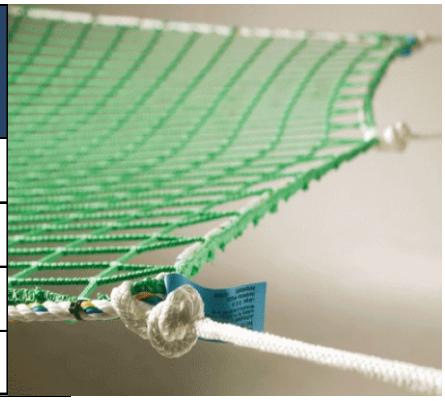


Plase de protectie pentru santiere de constructii

Plase de protectie anticadere in goluri de constructii tip S

- Plase noastre de siguranta fara noduri System S conform EN 1263-1 (bordate cu coarda)
- Energy absorption ochi 100 X 100 MM : app. 4.8 kJ = Plasa clasa de protectie A2
- Pentru protectia la cadere in goluri de constructie a lucratorilor
- Se livreaza cu Certificat de Calitate si Certificat de Conformitate

S/N	DESCRIERE PRODUS	L x l (ml)	Buc / Bax
1	Plasa anticadere Sistem S ochi 100 x 100mm - 5 x 10 m	5 x 10	1
2	Plasa anticadere Sistem S ochi 100 x 100mm - 6 x 10 m	6 x 10	1
3	Plasa anticadere Sistem S ochi 100 x 100mm - 7,5 x 15 m	7,5 x 15	1
4	Plasa anticadere Sistem S ochi 100 x 100mm - 12.5 x 25.5 m	12,5 x 25,5	1



Plase de protectie anticadere perimetre de constructii tip U

- Plase noastre de siguranta fara noduri System S conform EN 1263-1 (bordate cu coarda)
- Ochi 100 X 100 MM Plasa clasa de protectie A2, ochi 45 x 45 mm Clasa B1
- Pentru protectia la cadere in goluri de margine la constructie a lucratorilor
- Se livreaza cu Certificat de Calitate si Certificat de Conformitate







Plase utilizate ca platforme de lucru la acoperisuri plane

- Plase cmontate sub orizontul de lucru, armate cu chingi incrucisate
- Ochi 45 x 45 mm sau 60 x 60 mm Clasa B1
- Pentru a putea fi utilizate ca suport provizoriu la montajul tablelot cutate la acoperisuri
- Se livreaza cu Certificat de Calitate si Certificat de Conformitate



Conceptul Kee Safety - Armaturi pentru balustrade

PLAN

Solutia universala pentru balustrade de protectie.















RAMPA

Unghiuri reglabile intre 0° si 11°. Fitingurile va permit sa aliniati uniform suruburile de fixare a tevilor.













SCARI

Rezistenta maxima. Cost si efort de instalare minim.















BALUSTRADE DE PROTECTIE PENTRU PIETONI

Fiecare portiune de balustrada poate fiinlocuita individual foarte usor. Ca urmare, costurile reparatiilor, in caz de avarie, sunt reduse semnificativ.











Kee® Guard

Balustrade



Kee® Dome

Balustrade



Kee® Line

Linia vietii



Kee® Walk

Pasarele



easi-dec®

A KEE SAFETY PRODUCT



Kee® Anchor



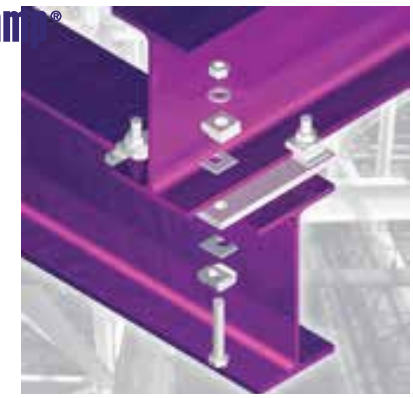
Box Bolt®

A KEE SAFETY PRODUCT



Beam Clamp®

A KEE SAFETY PRODUCT



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