

DANTECH

SOLUTIONS D.O.O.

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KATALOG 2025.



e-željezara
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DTS 500 FARMER VIJAK

PLASTIFIKACIJA DEBLJINE DO 60 µm
Powder coating to 60 µm

OTPORNOST NA UV ZRAČENJE
Resistant to UV radiation

IZDRŽLJIVA DUGOGODIŠNJA ZAŠTITA
Durable coating for years

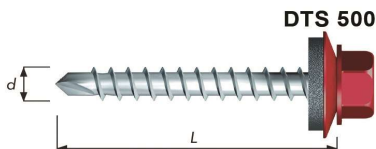
OTPORNOST NA MEHANIČKA OŠTEČENJA
Flake - resistant coating

DOSTUPNO U 180 RAL TONOVA
180 coating colours available

Vulkanizirana čelična podložna pločica EPDM
Self-vulcanizing bonded steel/EPDM washer

Otpornost na niske i visoke tem. preko 200 C
Resistant to freeze and high tem. over 200 C

Kapacitet bušenja lima 2 x 1,0 mm
Drilling capacity up to 2 x 1,0 mm

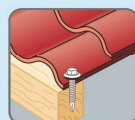


d x L (mm)	PAKIRANJE
4,8 x 20	8 x 250
4,8 x 35	8 x 250
4,8 x 50	8 x 200
4,8 x 60	8 x 100
4,8 x 75	8 x 100
4,8 x 100	8 x 100

RAL TONOVI - COLOURS

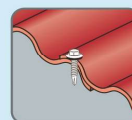

Predstavljene boje prikazane su samo kao bazne nijanse u ponudi.
Molimo koristite samo originalnu RAL ton kartu za stvarnu nijansu boje.

Presented colours are shown just for a brief colour reference. Please use only professional RAL table for actual colour selection.

MONTAŽA - FIXING


4,8 x 35
4,8 x 50
4,8 x 60
4,8 x 75
4,8 x 100

spajanje čeličnog lima na drvenu konstrukciju
fixing steel sheets to wooden construction



4,8 x 20

spajanje lim - lim
steel sheets overlapping

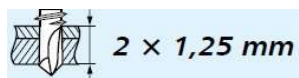
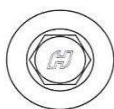
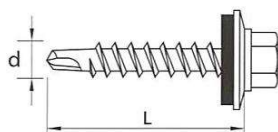
DTS 500

Samobušeci vijak sa šesterokutnom glavom i vulkaniziranom podloškom

- Za međusobno spajanje limova

- Za spajanje limova na drvenu konstrukciju

ZN
ZN / RAL
INOX



ZN

$\frac{D}{L}$	Ø4,8	Ø6,5
20	o	o
25		o
28		
35	o	o
45		
50	o	o
60	o	
70	o	
75	o	o
100	o	

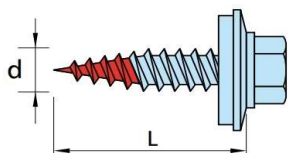


$\frac{D}{L}$	Ø4,8	Ø6,5
20	o	o
25		o
28		
35	o	o
45		
50	o	o
60	o	
70	o	
75	o	o
100	o	



$\frac{D}{L}$	Ø4,8
19	o
25	o
35	o





ZN

$\frac{D}{L}$	$\frac{D}{L}$
$\frac{D}{L}$	$\frac{D}{L}$
19	Ø 4,8

BI-METAL
A2

$\frac{D}{L}$	$\frac{D}{L}$	$\frac{D}{L}$
$\frac{D}{L}$	$\frac{D}{L}$	$\frac{D}{L}$
19	Ø 4,8	Ø 6,0
25		

PRODUCT DESCRIPTION AND CHARACTERISTICS

- Bi-metal screws made of stainless steel A2, with hardened carbon steel drilling point.
- Intended for use in environment up to C5 category acc. to EN ISO 12944-2.
- Screws available with assembled stainless steel washer with EPDM sealing ring E (mm) - Ø14, Ø16 or without sealing washer.
- The design of the screws enables fast and tight joining of metal elements with a thickness of 2 x 0.5 to 2 x 1.0 mm, without the formation of metal chips during assembly, which can cause corrosion.
- Innovative conical geometry of the screw reduces installation time and the sharp tip of the thread reduces the screw slippage on the sheet surface.
- The designed thread geometry ensures tight pressure of the fixed elements and high load-bearing capacity of the connection.
- The product meets the requirements of class A1 reaction to fire, according to EC 96/603/EC.



DRILLER®

BI-METAL
A2

Class A1 reaction to fire
EC 96/603/ EC

APPLICATION

- Fast, chipless and tight stitching of thin metal sheets
- Steel sheets overlapping
- Assembly of photovoltaic installation elements

INSTALLATION INSTRUCTIONS

- Set the screw perpendicular to the surface of the fastened elements.
- Set the proper rotational speed of the screwdriver acc. to Tab. A2.
- Installation with a minimum pressure force of 15-20 KG depending on the hardness of the base material.
- Use a screwdriver with adjustable torque for assembly. Installation torque $M_{t, nom}$ according to Table A2.
- Press the washer correctly to ensure tightness and prevent corrosion in the fixing point.

Table A1: MATERIAL PARAMETERS OF FASTENER

Elements	Material
1 Screw	Bi-metal: stainless steel – SAE 304 with hardened carbon steel drilling point
2 Washer	Stainless steel washer with EPDM sealing ring S280GD, S320GD or S350GD - EN 10346, aluminium
3 Fixed element	S280GD, S320GD or S350GD - EN 10346, aluminium
4 Base material	S280GD, S320GD or S350GD - EN 10346, aluminium

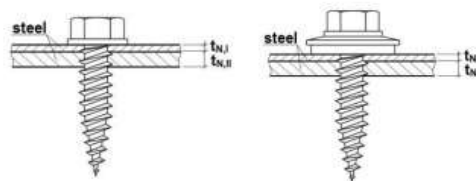


Table A2: FIXING PARAMETERS

Type	Screw diameter D [mm]	Screw length L [mm]	Head size AF [mm]	Drilling capacity Σt_i [mm] $t_{N, I} + t_{N, II}$	Max. thickness of fixed elements G+ Σt_i [mm] without washer steel/EPDM	Max. thickness of fixed elements G+ Σt_i [mm] with washer steel/EPDM $\geq \phi 14$	Installation torque $M_{t, nom}$ [Nm]	Drill speed [rpm]
WKFT (HS2)	4,8	19	8	2 x 0,5 – 2 x 1,0	11	8	3	max. 2500

DTS 501

Samobušeci vijak sa šesterokutnom glavom i vulkaniziranom podloškom

- Za spajanje limova na metalnu konstrukciju

- Debljina bušenja lima 2 - 6 mm

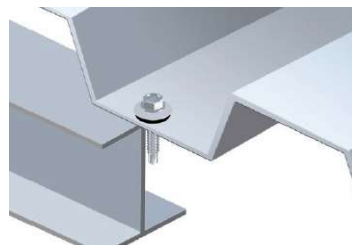
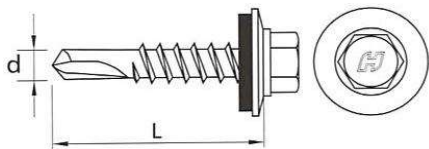
ZN

ZN / RAL

PROTECT 1000™

BI - METAL

INOX



ZN

$\frac{D}{L}$	Ø4,8	Ø5,5	Ø6,3
16	o		
19	o	o	o
22	o	o	o
25	o	o	o
32	o	o	o
35	o		
38	o	o	o
45	o	o	
50		o	o
55		o	
63		o	o
75		o	o

$\frac{D}{L}$	Ø4,8	Ø5,5	Ø6,3
16			
19			
22			
25	o	o	
32			
35			
38		o	
45			
50		o	
55			
63			
75		o	

INOX - AISI 410

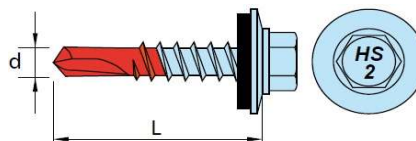
INOX

$\frac{D}{L}$	Ø4,8	Ø5,5
16	o	
19	o	o
22	o	o
25	o	o
32		o
35	o	
38		o
45		o
50		o

PROTECT 1000™



$\frac{D}{L}$	Ø5,5
25	o



BI - METAL AISI 304

BI-METAL
A2

$\frac{D}{L}$	Ø5,5
25	o
32	o
38	o
50	o

DTS 502

Samobušeci vijak sa šesterokutnom glavom i vulkaniziranom podloškom

- Za spajanje limova na čeličnu konstrukciju

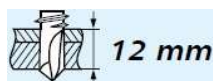
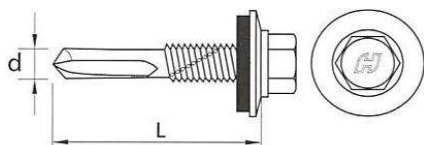
- Debljina bušenja čelika 4 - 20 mm

ZN

ZN / RAL

PROTECT 1000™

BI - METAL

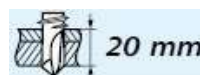


ZN

$\frac{D}{L}$	$\varnothing 5,5$
32	o
38	o
50	o
67	o
75	o

PL $\varnothing$
14
14
14
14
14

PROTECT 1000™

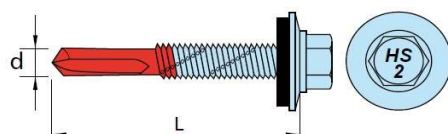


$\frac{D}{L}$	$\varnothing 5,5$
32	o
35	o
38	o
50	o
67	o
75	o

PL $\varnothing$
14
14
14
14
14
14

$\frac{D}{L}$	$\varnothing 5,5$
38	o
35	o

PL $\varnothing$
14
14



BI - METAL - AISI 304



$\frac{D}{L}$	$\varnothing 5,5$
38	o
50	o
75	o

PL $\varnothing$
14
14
14

VIJCI ZA SENDVIČ PANELE SANDWICH PANELS SCREWS





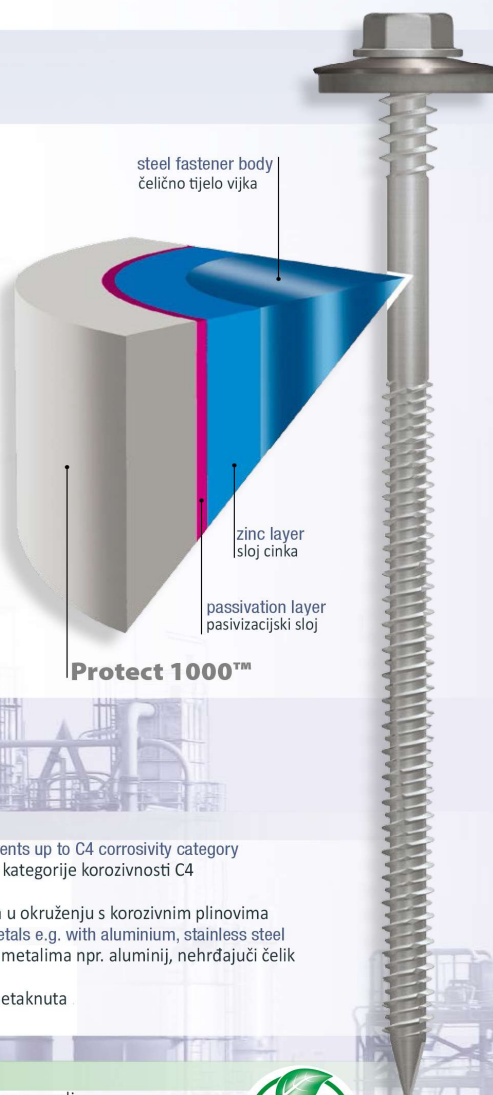
ADVANCED CORROSION PROTECTIVE COATING FOR FASTENERS NAPREDNA ANTIKOROZIVNA ZAŠTITA ZA VIJKE

Protect 1000™

EN-ISO-9227 supreme performance | vrhunska izvedba
min. 1000 h/sati
against moist and saline environment
otpornost na vlagu i morske uvijete

DIN 50018 **min. 15 cycles/ciklusi**
against acid rain environment
otpornost na kisele kiše

EN-ISO-12944-2 recommended for environments of
preporučeno za okruženje
corrosivity | kategorija **C1-C4**
categories | korozivnosti
confirmed by the technical opinion
potvrđeno od struke sa
ITB 02705/14/R23NM



PROPERTIES AND ADVANTAGES | SVOJSTVA I PREDNOSTI

- Excellent fasteners' protection against saline and acid rain environments up to C4 corrosivity category
Vrhunska zaštita vijaka u morskim uvjetima i protiv kiselih kiša do kategorije korozivnosti C4
- High protection in an environment of corrosive gases | Visoka zaštita u okruženju s korozivnim plinovima
- Resistance against electrochemical (contact) corrosion with other metals e.g. with aluminium, stainless steel
Otpornost na elektrokemijsku (kontakt) koroziju u spoju s ostalim metalima npr. aluminij, nehrđajući čelik
- Maintained sharpness of cutting edges | Oštrina reznih bridova je netaknuta
- No recess filling | nema punjenja

ENVIRONMENT FRIENDLY | EKOLOŠKI PRIHVATLJIV

- dry to touch finish, does not stain | završni sloj suh na dodir i postojan na mrlje
- non toxic, chrome-free and lead-free | nije toksična, bez kroma i olova
- no emission of lead vapors | nema isparavanja olovnih para
- low emission of Volatile Organic Compounds (VOC) | niska emisija VOC



Corrosivity categories according to EN-ISO-12944-2

Kategorija korozivnosti prema EN-ISO-12944-2

Corrosivity category Kategorija korozivnosti	Type of environment Vrste okruženja korozivnosti	Mass loss per unit and coating thickness loss after first year of exposure I Gubitak mase vijka i debljine zaštitnog sloja nakon prve godine izlaganja				Examples of typical environments in a temperate climate Primjeri tipičnih okruženja u umjerenoj klimi
		Carbon steel I Ugljični čelik		Zinc coating I Sloj cinka		
		g/m²	µm	g/m²	µm	
C1	very low vrlo nisko	< 10	< 1,3	< 0,7	< 0,1	Interior of heated buildings e.g. offices, schools, hotels. I Unutrašnjost grijane zgrade (uredi, škole, hoteli)
C2	low nisko	10 - 200	1,3 - 25	0,7 - 5	0,1 - 0,7	Areas with low air pollution, away from the sea, the buildings are not exposed to continuous condensation of humidity. All kinds of warehouses, sports halls and other buildings including the residential areas. I Kopnena područja s niskim zagađenjem zraka, zgrade nisu trajno izložene kondenzaciji. Skladišta, dvorane uključujući naseljena područja.
C3	medium srednje	200 - 400	25 - 50	5 - 15	0,7 - 2,1	Areas with an average degree of pollution, mainly urban centers and light industry with low emission of CO ₂ and SO ₂ to the atmosphere. I Područja s prosječnom zagađenosti, urbana područja i područja lagane industrije s niskim emisijama CO ₂ i SO ₂ u atmosferi.
C4	high visoko	400 - 650	50 - 80	15 - 30	2,1 - 4,2	Areas with a high concentration of pollution (high emission of CO ₂ and SO ₂ to the atmosphere), high-density zones of heavy industry (steel mills, coal power plants, petrochemical plants), the coastal areas of medium salinity. I Područja s visokim stupnjem zagađenja (visoke emisije CO ₂ i SO ₂ u atmosferi) područje teške industrije (čeličane, elektrane na ugljen, petrokemijske tvornice), obalna područja srednjeg saliniteta.
C5-I	very high (industrial) vrlo visoko	650 - 1500	80 - 200	30 - 60	4,2 - 8,4	Industrial areas with very high level of CO ₂ and SO ₂ pollution, salinity and high humidity. I Industrijska područja s visokim nivoima CO ₂ i SO ₂ zagađenja, salinitetom i visokom vlagom.
C5-M	very high (marine) vrlo visoko	650 - 1500	80 - 200	30 - 60	4,2 - 8,4	Typical marine, coastal and offshore areas: oil rigs, industrial port areas. I Tipični morski uvjeti, obalni i uvjeti na platformama i lukama.

HAMAR fasteners selection due to environmental corrosivity categories acc. to EN-ISO-12944-2

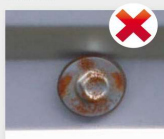
Izbor vijaka prema korozivnim kategorijama okruženja EN-ISO-12944-2

Recommended fastener material selection Preporučeni materijal vijka	Corrosivity category I Kategorija korozivnosti				
	C1	C2	C3	C4	C5
carbon steel zinc plated up to 5µm ugljični čelik cinkan do debljine sloja 5µm	✓				
carbon steel zinc plated > 5µm, powder coating ugljični čelik cinkan debljine sloja veće od 5µm, plastificiran	✓	✓			
carbon steel zinc plated, coating thickness min. 12µm, powder coating ugljični čelik cinkan slojem debljine od 12µm, plastificiran	✓	✓	✓		
stainless steel AISI 410, powder coating nehrđajući čelik AISI 410, plastificiran	✓	✓	✓		
carbon steel with PROTECT 1000™ coating, powder coating ugljični čelik sa PROTECT 1000™ zaštitnim slojem, plastificiran	✓	✓	✓	✓	
stainless steel AISI 304 (A2) nehrđajući čelik AISI 304 (A2)	✓	✓	✓	✓	✓
bi-metal bi-metal	✓	✓	✓	✓	✓
stainless steel AISI 316 (A4) nehrđajući čelik AISI 316 (A4)	✓	✓	✓	✓	✓

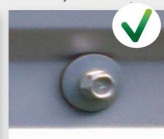
Comparison of different corrosion protection methods

Usporedba antikorozivnih zaštitnih metoda

Type of coating Vrsta zaštitnog sloja	Electrolytic galvanized 5µm Galvanizirani sloj 5µm	Coating PROTECT 1000™ PROTECT 1000™ zaštitni sloj
Corrosion resistance (salt spray test) Otpornost na koroziju (rasprašivanje soli)	72 h	1000 h
Coating accuracy Točnost sloja	Visoka	Visoka
RoHS Compliance RoHS direktiva	Zadovoljava	Zadovoljava



Red-rusty
Korodiran



No red rust
Bez korozije

Fixed using galvanized screw with bonded galvanized washer
Spoj izveden pocinčanim vijkom s pocinčanom podloškom.

Fixed using screw PROTECT 1000™ coated with bonded stainless steel EPDM washer
Spoj izveden vijkom sa zaštitnim slojem PROTECT 1000™ s nehrđajućim EPDM podloškom



DTS 503

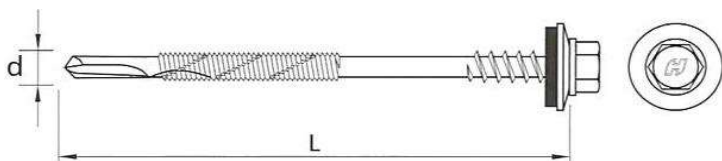
Samobušeci vijak sa šesterokutnom glavom i inox EPDM podloškom

- Za spajanje panela na čeličnu konstrukciju

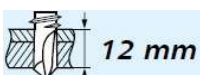
- Debljina bušenja čelika maksimalno do 12mm (20)

PROTECT 1000™

BI - METAL



PROTECT 1000™



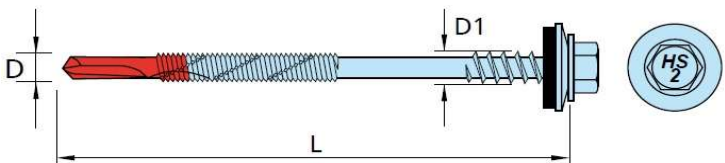
L \ D	5,5/6,3	$G_{p \min}$	$G_{p \max}$	EPDM Ø
85	○	35	50	16 / A2
105	○	40	70	16 / A2
115	○	50	80	16 / A2
130	○	40	95	19 / A2
150	○	70	115	19 / A2
165	○	85	130	19 / A2
175	○	95	140	19 / A2
185	○	105	150	19 / A2
200	○	115	165	19 / A2
215	○	130	180	19 / A2
235	○	150	200	19 / A2
255	○	170	220	19 / A2
285	○	200	250	19 / A2
340	○	220	305	19 / A2



L \ D	5,5/6,3	$G_{p \min/\max}$
135	○	35 / 95
155	○	50 / 115
185	○	80 / 145
235	○	135 / 195



L \ D	5,5/6,3	$G_{p \min/\max}$
140	○	35 / 95
160	○	45 / 115
190	○	75 / 145
245	○	125 / 200
260	○	150 / 215
325	○	180 / 280



BI - METAL - AISI 304



DIMENZIJE NA UPIT !

$G_{p \max}$ = atestirana maksimalno dozvoljena ukupna debljina panela koja se može spojiti sa pojedinom dužinom vijka sa uključenom kalotom

Primjeri:

* Krovni panel debljine 100 mm (ukupno 140mm sa gornjim valom) spaja se sa vijkom 5.5/6.3 x 175 mm.

* Zidni panel debljine ukupno 80 mm spaja se sa vijkom 5.5/6.3 x 115 mm.

Montaža:

* maksimalni broj okretaja kod montaže rpm=1.500 °/min.

e-železara
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DTS 504

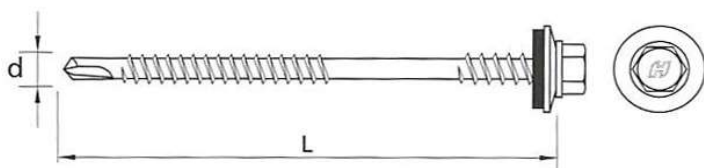
Samobušajući vijak sa šesterokutnom glavom i inox EPDM podloškom

PROTECT 1000™

- Za spajanje panela na metalnu konstrukciju

BI - METAL

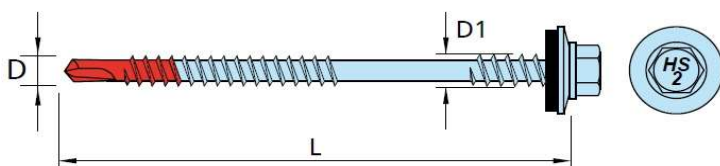
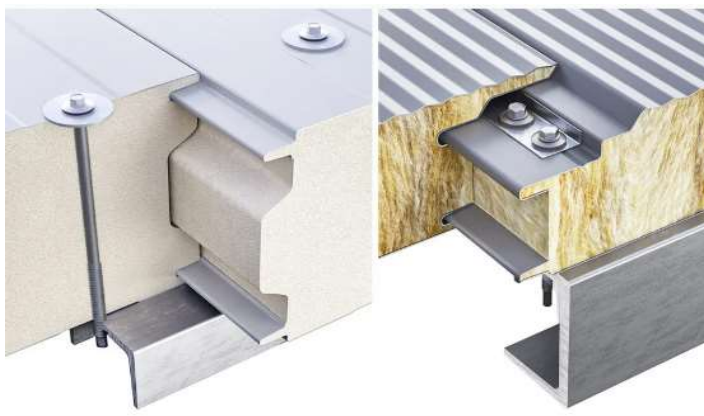
- Debljina bušenja metalnih cijevi maksimalno do debljine stijenke 6 mm;



PROTECT 1000™



$\frac{D}{L}$	$\varnothing 5,5$	$G_{p \min}$	$G_{p \max}$	EPDM $\varnothing$
80	○	30	55	16 / A2
90	○	40	65	16 / A2
98	○	50	75	16 / A2
110	○	55	85	16 / A2
120	○	45	95	16 / A2
130	○	50	105	19 / A2
150	○	70	125	19 / A2
160	○	80	135	19 / A2
175	○	95	150	19 / A2
195	○	115	170	19 / A2
210	○	130	185	19 / A2
230	○	170	205	19 / A2
240	○	180	215	19 / A2
250	○	190	225	19 / A2
275	○	210	250	19 / A2
330	○	260	305	19 / A2



BI - METAL - AISI 304



DIMENZIJE NA UPIT !

$G_{p \max}$ = atestirana maksimalno dozvoljena ukupna debljina panela koja se može spojiti sa pojedinom dužinom vijka sa uključenom kalotom

Primjeri:

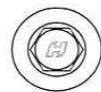
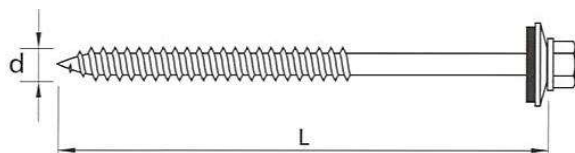
* Krovni panel debljine 50 mm (ukupno 90mm sa gornjim valom) spaja se sa vijkom 5.5/6.3 x 120 mm.

* Zidni panel debljine ukupno 50 mm spaja se sa vijkom 5.5/6.3 x 80 mm.

Montaža:

* maksimalni broj okretaja kod montaže rpm=1.800 °/min.

e-železara
web shop



$\frac{D}{L}$	$\varnothing 6,5$	$G_{p\ max}$
90	Ø	60
100	Ø	70
110	Ø	80
120	Ø	90
130	Ø	100
150	Ø	120
160	Ø	130
175	Ø	145
200	Ø	170
220	Ø	190
230	Ø	200
240	Ø	210
250	Ø	220
260	Ø	230
275	Ø	245
300	Ø	270

EPDM Ø
16
16
16
16
19
19
19
19
19
19
19
19
19
19
19
19
19



$G_{p\ max}$ = atestirana maksimalno dozvoljena ukupna debljina panela koja se može spojiti sa pojedinom dužinom vijka sa uključenom kalotom

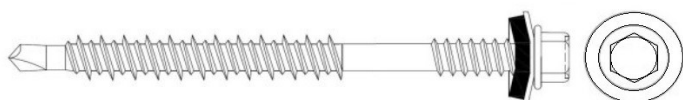
Primjeri:

- * Krovni panel debljine 30 mm (ukupno 70mm sa gornjim valom) spaja se sa vijkom 6.5 x 100 mm.
- * Krovni panel debljine 100 mm (ukupno 140mm sa gornjim valom) spaja se sa vijkom 6.5 x 175 mm.
- * Zidni panel debljine ukupno 50 mm spaja se sa vijkom 6.5 x 90 mm.
- * Zidni panel debljine ukupno 80 mm spaja se sa vijkom 6.5 x 120 mm.

Montaža:

* predbušenje u drvu nije potrebno !!!

* maksimalni broj okretaja kod montaže rpm=800 °/min.



$\frac{D}{L}$	$\varnothing 6,4$	$G_{p\ max}$
105	○	70
125	○	90
145	○	110
165	○	130
195	○	160
225	○	190
245	○	210
265	○	230
315	○	280

EPDM $\varnothing$
19
19
19
19
19
19
19
19
19


Montaža:

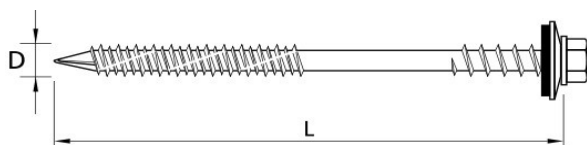
* predbušenje sa svrdlom promjera 5.0 mm vrši se isključivo samo kod montaže u betonsku podkonstrukciju !!!

* predbušenje u drvu nije potrebno !!!

* maksimalni broj okretaja kod montaže rpm=800 °/min.

za spajanje panela na betonsku ili drvenu konstrukciju

Za ugradnju u beton potrebno je predbušenje promjerom 5 mm.



PROTECT 1000™



$\frac{D}{L}$	$\varnothing 6,4$	$G_{p\ max}$	EPDM $\varnothing$
100	○	65 / 60	19
120	○	85 / 80	19
130	○	95 / 90	19
140	○	105 / 100	19
150	○	115 / 110	19
160	○	125 / 120	19
180	○	145 / 140	19
190	○	155 / 150	19
200	○	165 / 160	19
210	○	175 / 170	19
220	○	185 / 180	19
230	○	195 / 190	19
240	○	205 / 200	19
250	○	215 / 210	19
260	○	225 / 220	19
300	○	245 / 240	19
280	○	265 / 260	19



$G_{p\ max}$ = atestirana maksimalno dozvoljena ukupna debljina panela koja se može spojiti sa pojednom dužinom vijka sa uključenom kalotom
65 / 60 prva max debljina od 65 mm odnosi se na drvenu podkonstrukciju, a druga od 60 mm na betonsku podkonstrukciju

Primjeri:

- * Krovni panel debljine 50 mm (ukupno 90mm sa gornjim valom) spaja se sa vijkom 6.4 x 130 mm u betonskoj ili drvenoj podkonstrukciji
- * Zidni panel debljine ukupno 80 mm spaja se sa vijkom 6.4 x 120 mm. u betonskoj ili drvenoj podkonstrukciji

Montaža:

* predbušenje sa svrdlom promjera 5.0 mm vrši se isključivo samo kod montaže u betonsku podkonstrukciju !!!

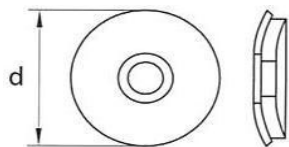
* predbušenje u drvu nije potrebno !!!

* maksimalni broj okretaja kod montaže rpm=800 °/min.

DTS 507

EPDM podložna pločica

ZN
AL
INOX



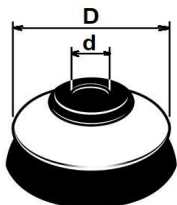
<i>D</i>	Ø
12	Ø
14	Ø
16	Ø
19	Ø
25	Ø

VIJAK
4.2
4.8
5.5
5.5 / 6.3
5.5 / 6.3

DTS 507 V

EPDM podložna pločica visoka

ZN
INOX



<i>d</i> \ <i>D</i>	25
6	Ø
8	Ø

DTS 508 SW

Plastična kapice za krovne vijke

PVC / RAL

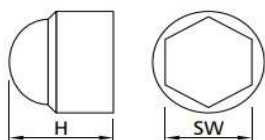


D \ SW	8 (mm)	10 (mm)
	19	19

DTS 508 SWH

Plastična ukrasne kapice

PVC



Dostupne boje: Bijela, Crna, Srebrna

M	SW (mm)	H (mm)
8	13	15.0
10	17	19.5
12	19	20.0
14	22	23.5
16	24	26.0
20	30	32.5
24	36	39.0
30	46	50.0

DTS 508 T

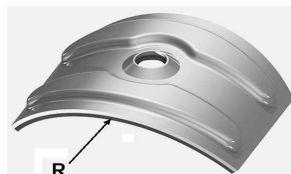
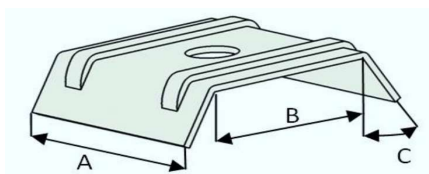
Plastične kapice za turbo vijak DTS 526

PVC



Dostupne boje: Bijela, Crna, Smeđa

T30
19

**DTS 509**

NAZIVNA	A	B	C	
20 / 23	38	20	23 °	
20 / 35	38	20	35 °	o
21 / 16	38	21	16 °	
21 / 46	38	21	46 °	
23 / 30	38	23	30 °	o
24 / 30	38	24	30 °	
25 / 27	38	25	27 °	o
26 / 15	38	26	15 °	
26 / 50	38	26	50 °	
28 / 52	32	28	52 °	
30 / 29	38	30	29 °	o
33 / 48	38	33	48 °	
34 / 23	38	34	23 °	
35 / 34	38	35	34 °	o
36 / 40	38	36	40 °	
40 / 24	32	40	24 °	
41 / 17	38	41	17 °	
41 / 32	38	41	32 °	o
41 / 39	38	41	39 °	
41 / 45	38	41	45 °	
45 / 30	32	45	30 °	
45 / 40	32	45	40 °	
50 / 36	40	50	36 °	
54 / 32	45	54	32 °	

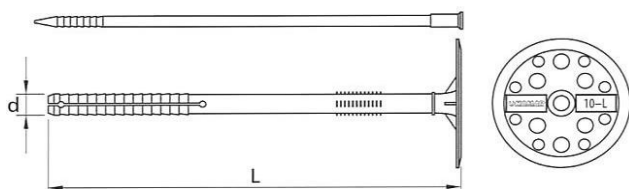
DTS 509 S

NAZIVNA	R (mm)	
R 24	24	
R 33	33	
R 40	40	o
R 48	48	o

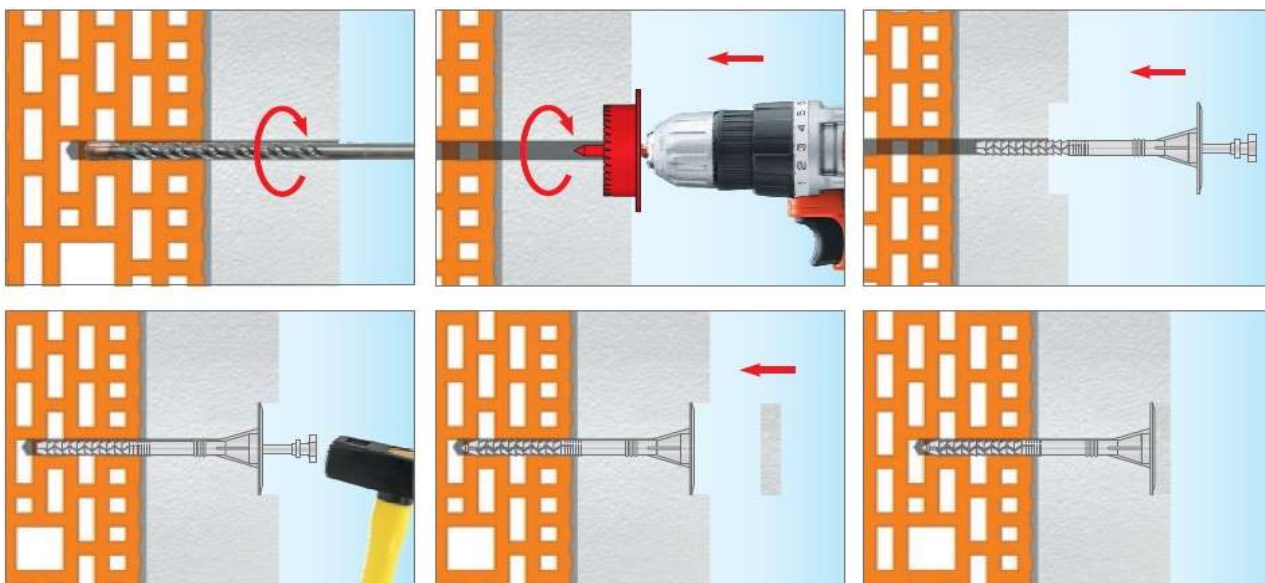
o Dimenzije sa zalihe

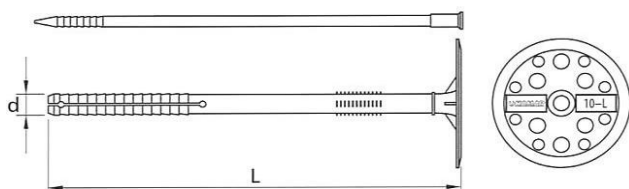
RAL boje sa zalihe: 3009, 7016, 8004, 8019, 9002, 9006



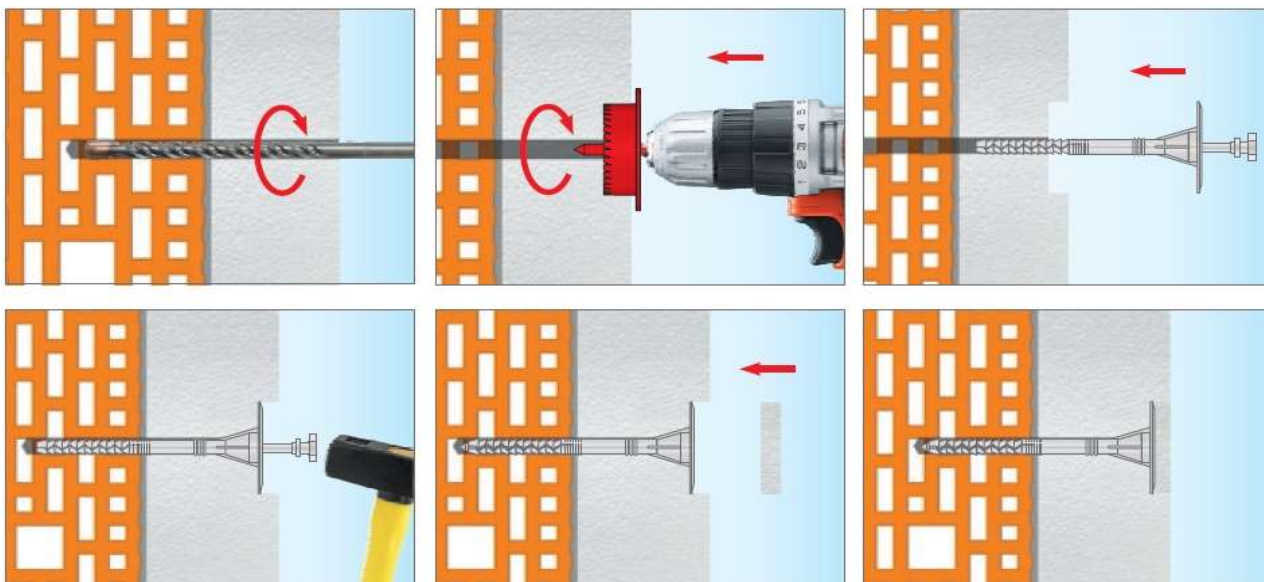


$\begin{matrix} D \\ L \end{matrix}$		IZOLACIJA	
$\varnothing 10$		min.	max.
70	○	10	20
90	○	30	40
100	○	40	50
110	○	50	60
120	○	60	70
140	○	80	90
160	○	100	110
180	○	120	130
200	○	140	150
220	○	150	170
260	○	200	210





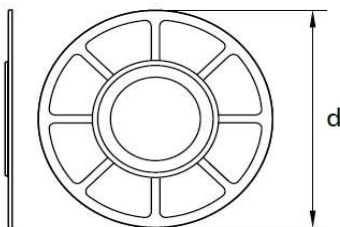
D		IZOLACIJA	
L	Ø10	min.	max.
100	○	40	50
120	○	60	70
140	○	80	90
160	○	100	110
180	○	120	130
200	○	140	150
220	○	150	170
260	○	200	210



DTS 512 LIT

Disk za fasadne tiplje

- Koristi se kod sidrenja kamene vune kod tipla sa trnom DTS 510 ili DTS 511

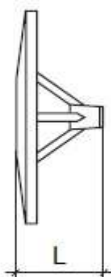
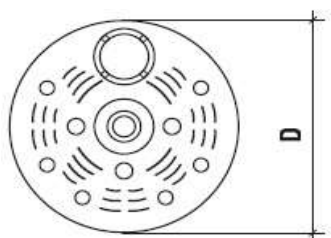


MATERIJAL	d
Poliamid	125
Polipropylen	125

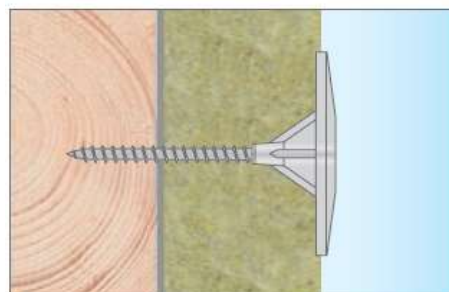
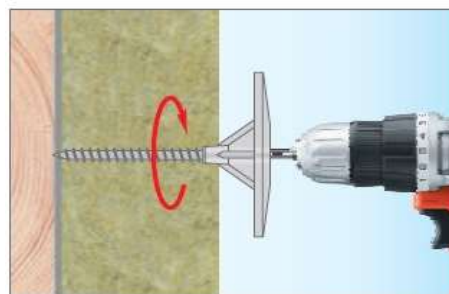
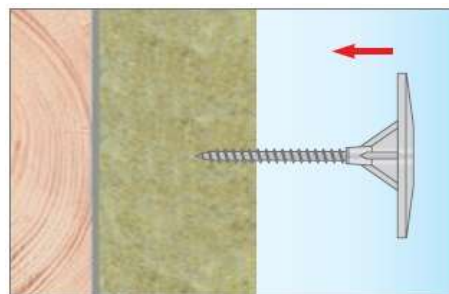
DTS 512 LIK

Disk za izolacijsku kamenu vunu

- Za vijke promjera Ø4,5 - 6,0 mm



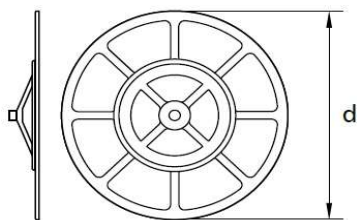
D	L
60	15



DTS 512 LITW

Disk za mekanu izolacijsku kamenu vunu

- Za vijke promjera Ø4,5 - 6,5 mm

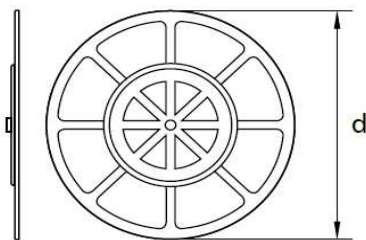


MATERIJAL	d
Poliamid	125
Polipropylen	125

DTS 512 LITP

Disk za tvrdi izolacijsku kamenu vunu

- Za vijke promjera Ø4,8 - 6,5 mm

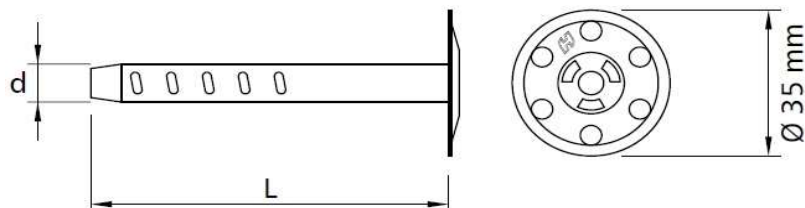


MATERIJAL	d
Poliamid	125
Polipropylen	125

DTS 513 LIM

Metalna tipla za sidrenje izolacijske kamene vune na alu fasadama

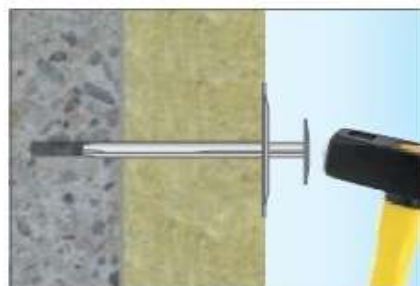
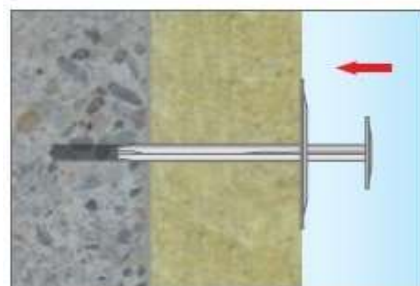
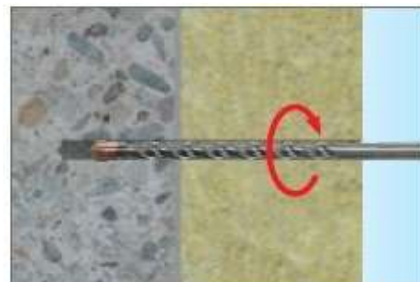
ZN
INOX



INOX
A2

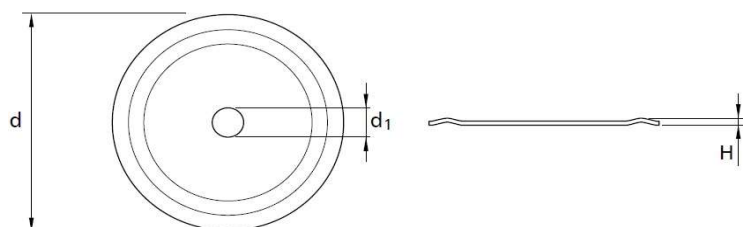
 **FIRE**
RESISTANCE
CLASS
R30 ÷ R120

$\frac{D}{L}$	8	SVRDLO
60		Ø8
80		Ø8
90		Ø8
110		Ø8
140		Ø8
170		Ø8
200		Ø8
220		Ø8
230		Ø8
240		Ø8
250		Ø8
300		Ø8

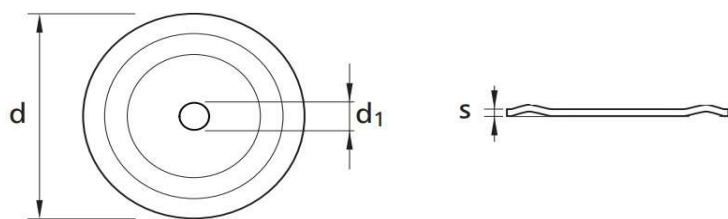


DTS 513 LIMP

Metalna podloška za metalnu tiplu DTS 513 LIM



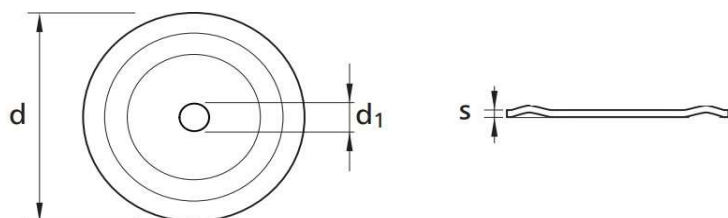
d	d_1	H
70	9.5	2.1



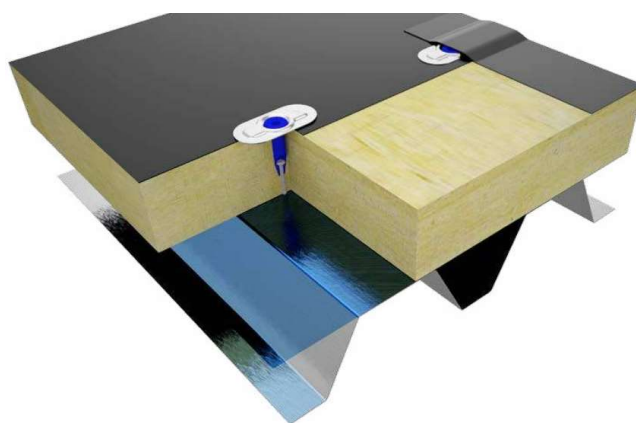
d	d_1	s
40	6,0	1
50	6.3	1

DTS 514 LI

Okrugla ravna podloška

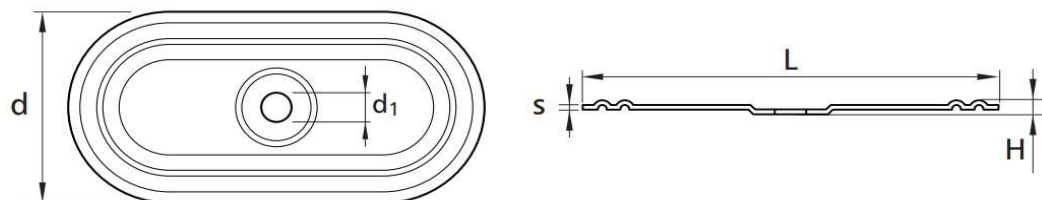


d	d_1	s
40	6.5	1
40	6.5	0.7
50	6.5	1
50	6.5	0.7
70	6.5	1
70	6.5	0.7

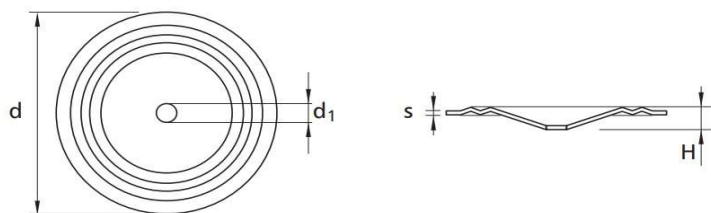


DTS 514 LI

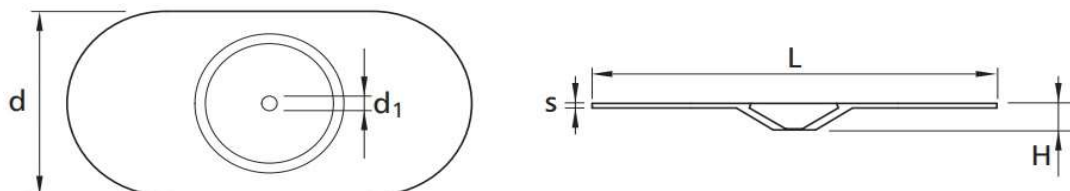
Ovalna ravna podloška



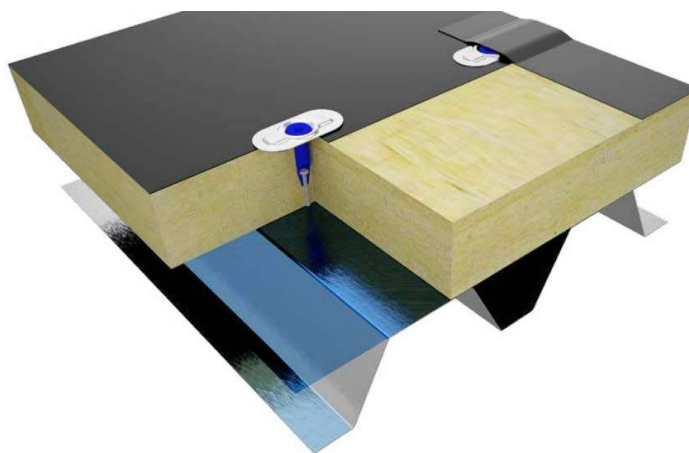
d	L	d_1	s
40	82	6.2	1
40	82	6.2	0.7



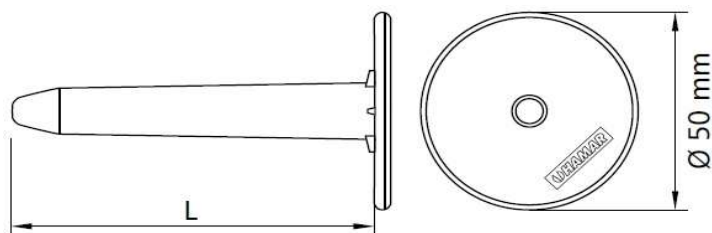
d	d_1	H	s
40	6.5	4	1
50	6.5	4	1
70	6.5	4	1
70	6.5	7.2	0.7



d	L	d_1	H	s
40	82	4.8	7.2	1
40	82	6.5	4	1

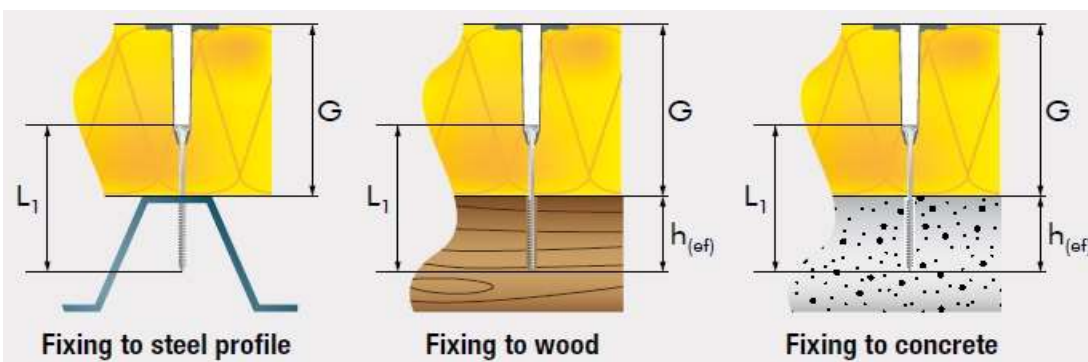
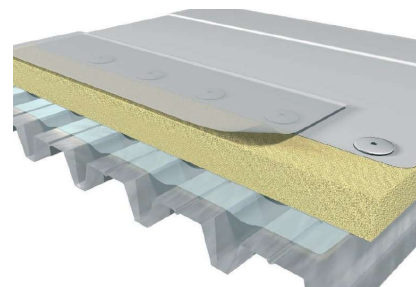


- Tipla se koristi sa vijcima DTS 516 S, DTS 516 U, DTS 516 UD



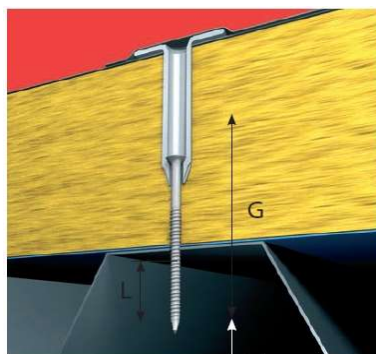
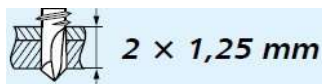
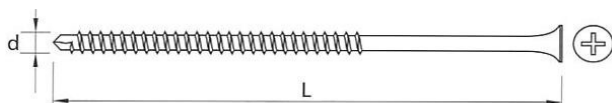
$\frac{D}{L}$	S	U
	Ø 4,8	Ø 6,1
35	○	○
60	○	○
85	○	○
95	○	○
105	○	○
115	○	○
135	○	○
145	○	○
165	○	○
185	○	○
215	○	○
235	○	○
285	○	○
325	○	○
385	○	○
435	○	○
535	○	○

	METAL	DRVO	BETON
IZOLACIJA	L_1	L_1	L_1
50-70	50-70	80	55-85
80-100	60-80	80	65-85
110	60	80	65
120	60	80	65
130	60	80	65
140-150	70	80	85
160	60	80	65
170-180	60-70	80	65-85
190-200	60-70	80	65-85
210-230	60-80	80	85
240-250	60-70	80	65-85
260	60	80	65
300	50	80	55
350	60	80	65
410	60	80	65
460	60	80	65
560	60	80	65



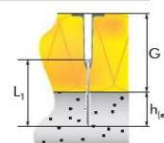
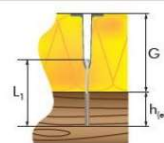
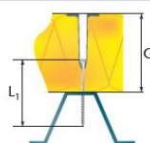
- Za pričvršćenje izolacije na ravnim krovovima

- Koristi se sa teleskopskom izolacijskom tiplom DTS 515 S



$\frac{D}{L}$	$\varnothing 4,8$
50	○
60	○
70	○
80	○
90	○
100	○
120	○
140	○
160	○
180	○
200	○
240	○
250	○
300	○

Insulation thickness G (mm)	DTS 515 L (mm)	Steel substrate S280GD	Wooden substrate $\geq$ C24		Concrete substrate $\geq$ C20/25	
		DTS 516 S L ₁ (mm)	Screw length L ₁ (mm)	Effective embedment depth h _{ef} (mm)	DTS 516 U L ₁ (mm)	Effective embedment depth h _{ef} (mm)
	Round type					
50	35	50			55	
60	35	60			65	
70	35	70			85	
80	60	60			65	
90	60	70			85	
100	60	80			85	
110	85	60			65	
120	95	60			65	
130	105	60			65	
140	115	60			65	
150	115	70			85	
160	135	60			65	
170	145	60			65	
180	145	70	80	20	85	30
190	165	60			65	
200	165	70			85	
210	185	60			65	
220	185	70			85	
230	185	80			85	
240	215	60			65	
250	215	70			85	
260	235	60			65	
300	285	50			55	
350	325	60			65	
410	385	60			65	
460	435	60			65	
560	535	60			65	
	Oval type					
80	65	50	80			
100	65	70				
120	65	100	100	20	-	-
150	65	120	-			



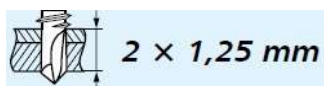
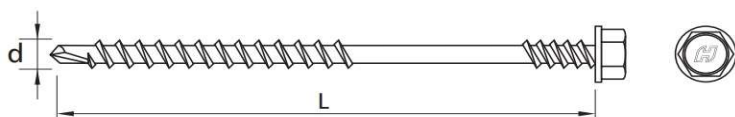
DTS 516 SW

Samobušėči vijak sa šestorokutnom glavom za lim

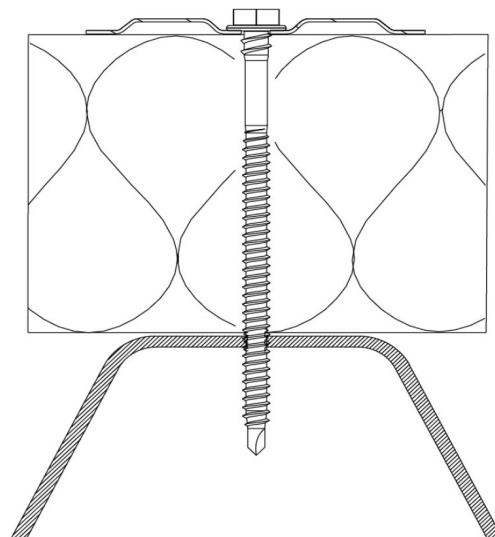
- Za pričvšćenje izolacije na ravnim krovovima

- Koristi se sa podloškama DTS 514 LI

PROTECT 1000™



$\frac{D}{L}$	$\varnothing 4,8$
100	Ø



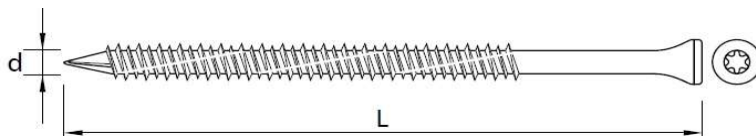
DTS 516 U

Samourezni vijak sa torx glavom T25 za beton

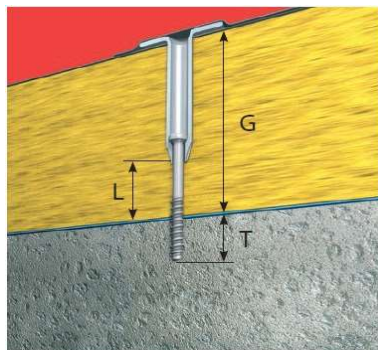
PROTECT 1000™

- Za pričvršćenje podne izolacije na ravnim krovovima;

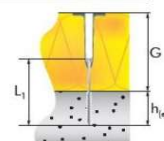
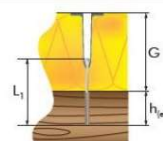
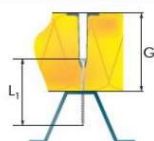
- Koristi se sa teleskopskom izolacijskom tiplom DTS 515 U



$\frac{D}{L}$	$\varnothing 6,1$
55	○
65	○
85	○
100	○
120	○
150	○
180	○
200	○
220	○
250	○
300	○



		Steel substrate S280GD	Wooden substrate $\geq$ C24		Concrete substrate $\geq$ C20/25	
Insulation thickness	DTS 515	DTS 516 S	Screw length	Effective embedment depth	DTS 516 U	Effective embedment depth
G (mm)	L (mm)	L ₁ (mm)	L ₁ (mm)	h _{ef} (mm)	L ₁ (mm)	h _{ef} (mm)
Round type						
50	35	50	80	20	55	30
60	35	60			65	
70	35	70			85	
80	60	60			65	
90	60	70			85	
100	60	80			85	
110	85	60			65	
120	95	60			65	
130	105	60			65	
140	115	60			65	
150	115	70			85	
160	135	60			65	
170	145	60			65	
180	145	70			85	
190	165	60			65	
200	165	70			85	
210	185	60			65	
220	185	70			85	
230	185	80			85	
240	215	60			65	
250	215	70			85	
260	235	60			65	
300	285	50			55	
350	325	60			65	
410	385	60			65	
460	435	60			65	
560	535	60			65	
Oval type						
80	65	50	80	20	-	-
100	65	70	100		-	
120	65	100	-		-	
150	65	120	-		-	



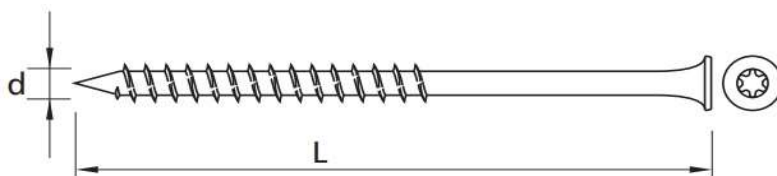
DTS 516 UD

Samourezni vijak sa torx glavom T25 za drvo

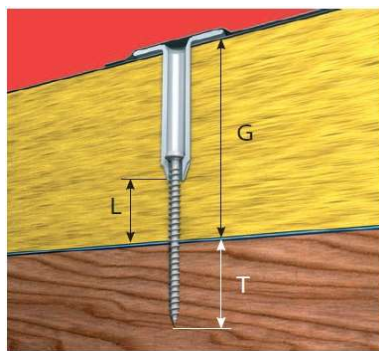
PROTECT 1000™

- Za pričvršćenje podne izolacije na ravnim krovovima;

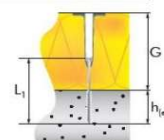
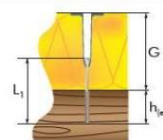
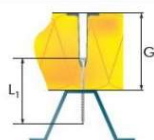
- Koristi se sa teleskopskom izolacijskom tiplom DTS 515 U



$\frac{D}{L}$	$\varnothing 5,0$
80	o
100	o



		Steel substrate S280GD	Wooden substrate ≥ C24		Concrete substrate ≥ C20/25			
Insulation thickness	DTS 515	DTS 516 S	Screw length	Effective embedment depth	DTS 516 U	Effective embedment depth		
G (mm)	L (mm)	L ₁ (mm)	L ₁ (mm)	h _{ef} (mm)	L ₁ (mm)	h _{ef} (mm)		
Round type								
50	35	50	80	20	55	30		
60	35	60			65			
70	35	70			85			
80	60	60			65			
90	60	70			85			
100	60	80			85			
110	85	60			65			
120	95	60			65			
130	105	60			65			
140	115	60			65			
150	115	70			85			
160	135	60			65			
170	145	60			65			
180	145	70			85			
190	165	60			65			
200	165	70			85			
210	185	60			65			
220	185	70			85			
230	185	80			85			
240	215	60			65			
250	215	70			85			
260	235	60			65			
300	285	50			55			
350	325	60			65			
410	385	60			65			
460	435	60			65			
560	535	60			65			
Oval type								
80	65	50	80	20	-	-		
100	65	70	100					
120	65	100						
150	65	120	-					

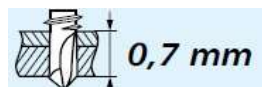
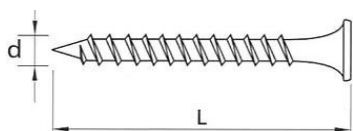


DTS 517

Samourezni vijak za gipsane ploče sa finim navojem

Fosfatirano

- za spajanje gipsanih ploča na metalne profile



$\frac{D}{L}$	Ø3,5	Ø4,2	Ø4,8
25	o		
35	o		
45	o		
55	o		
70		o	
100			o

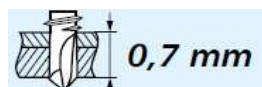
DTS 517 R

Samourezni vijak za gipsane ploče sa finim navojem

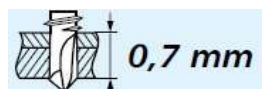
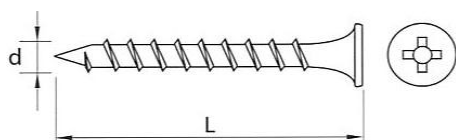
Fosfatirano

u redeniku 20/50

- za spajanje gipsanih ploča na metalne profile



$\frac{D}{L}$	Ø3,5
25	o
35	o
45	o
55	o



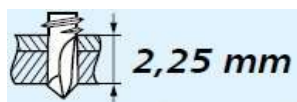
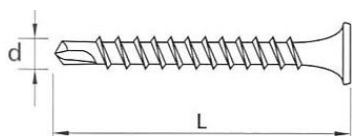
$\begin{matrix} D \\ L \end{matrix}$	Ø3,5	Ø4,2	Ø4,8
25	o		
35	o		
45	o		
55	o		
70		o	
90		o	o
100			o
110			o
120			o
140			o

DTS 519

Samobušeci vijak za gipsane ploče sa finim navojem

Fosfatirano

- za spajanje gipsanih ploča na metalne profile

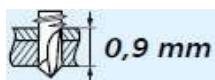
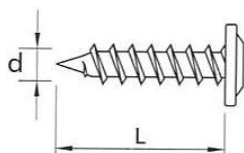


$\begin{matrix} D \\ L \end{matrix}$	$\varnothing 3,5$
25	o
35	o
45	o
55	o

DTS 520

Samourezni vijak za međusobno spajanje limova

ZN
ZN / RAL
Fosfatirano
INOX

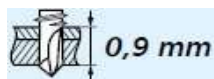
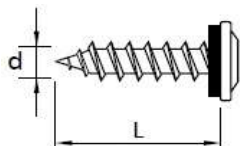


$\frac{D}{L}$	$\varnothing 4,2$
13	o
16	o
19	o
25	o
30	o
38	o
45	o
50	o
65	o

DTS 520 P

Samourezni vijak sa EPDM podloškom za međusobno spajanje limova

ZN
ZN / RAL
Fosfatirano
INOX

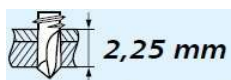
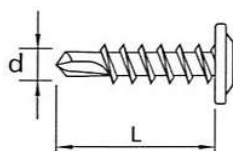


$\frac{D}{L}$	$\varnothing 4,2$
13	o
16	o
19	o
25	o
30	o
38	o
45	o
50	o
65	o

DTS 521

Samobušeci vijak za međusobno spajanje limova

ZN
ZN / RAL
Fosfatirano
INOX



ZN



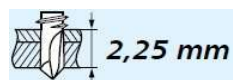
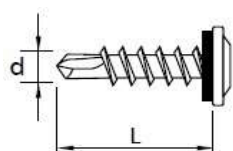
$\frac{D}{L}$	$\varnothing 4,2$
13	o
16	o
19	o
25	o
30	o
38	o
45	o
50	o
65	o

$\frac{D}{L}$	$\varnothing 4,2$
16	o

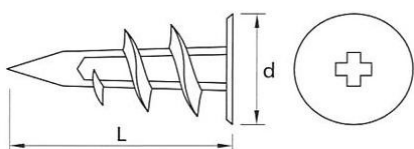
DTS 521 P

Samobušeci vijak sa EPDM podloškom za međusobno spajanje limova

ZN
ZN / RAL
Fosfatirano
INOX

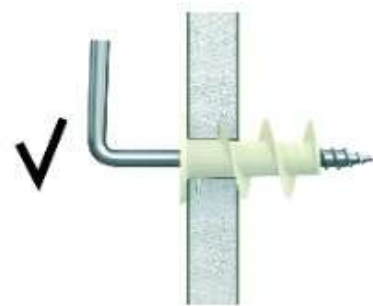
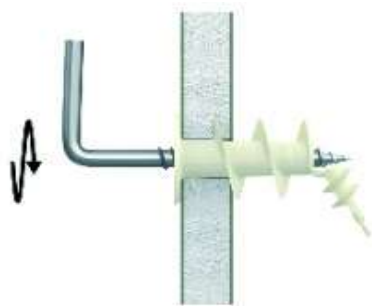
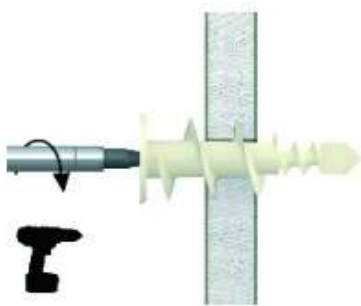


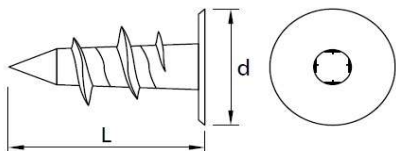
$\frac{D}{L}$	$\varnothing 4,2$
13	o
16	o
19	o
25	o
30	o
38	o
45	o
50	o
65	o



$\frac{D}{L}$	$\varnothing 15$
33	0

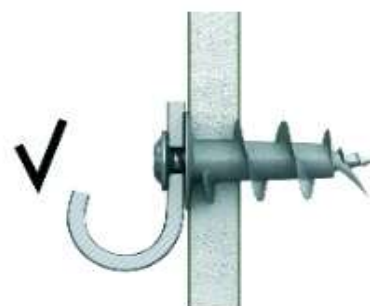
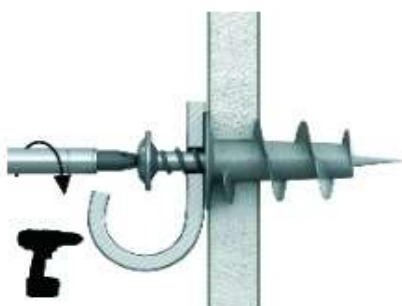
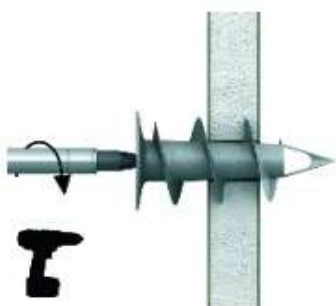
VIJAK
3,5 - 4,5

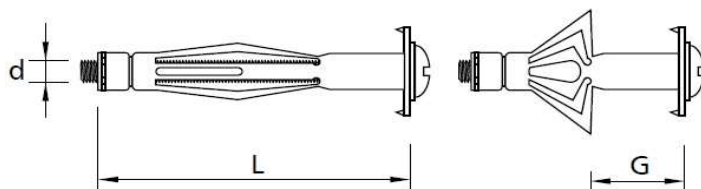




$\frac{D}{L}$	$\text{Ø}14$
28	o
38	o

VIJAK
4,5
4,5

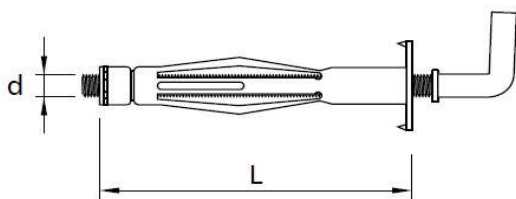




$\begin{matrix} D \\ L \end{matrix}$	M4	M5	M6
32	○		
36			○
38		○	
47	○		
52		○	
53		○	
60	○		
65		○	
80		○	○

SVRDLO	G - M4	G - M5	G - M6
8	3 - 12		
8			6 - 12
8		6 - 12	
8	16 - 24		
8		3 - 16	
8		8 - 16	
8	24 - 36		
8		16 - 32	
8		32 - 45	32 - 45

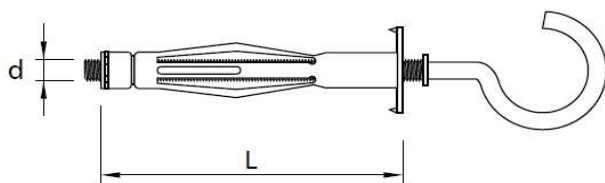




$\frac{D}{L}$	M4	M5
38	o	
52		o

SVRDLO	G - M4	G - M5
8	9 - 16	
11		7 - 16

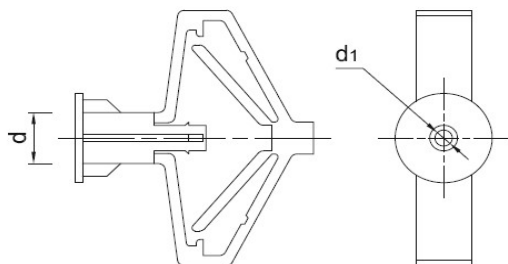




$\frac{D}{L}$	M4	M5
38	o	
52		o

SVRDLO	G - M4	G - M5
8	9 - 16	
11		7 - 16

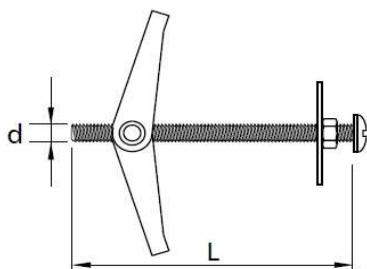




	Ø 8	Ø 10
d₁ - vijak	3.5	4.0
G_{min.}	12.5	9.5

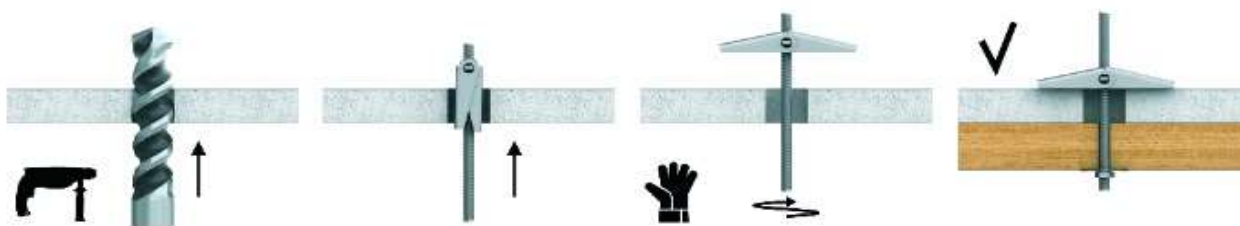
$\frac{d}{L}$	Ø 8	Ø 10
50	○	○

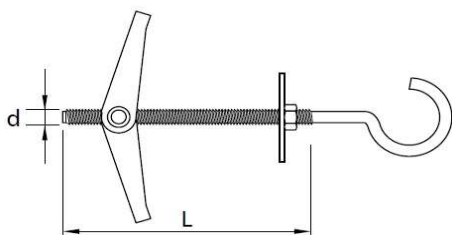




SVRDLO Ø 12 Ø 16

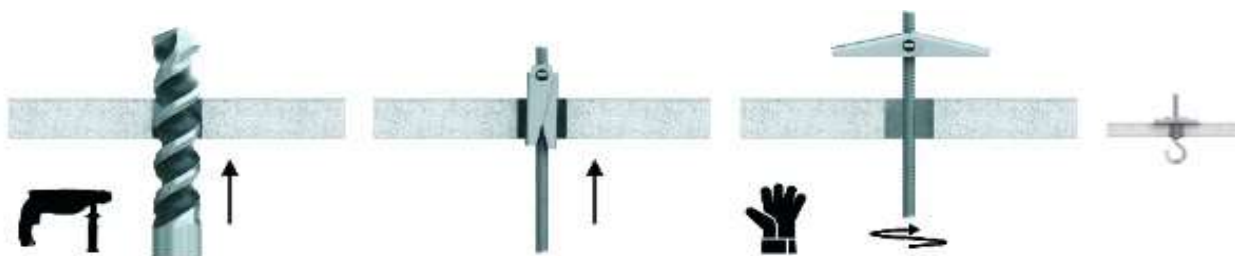
$\frac{D}{L}$	M4	M5
50	○	○
75	○	○

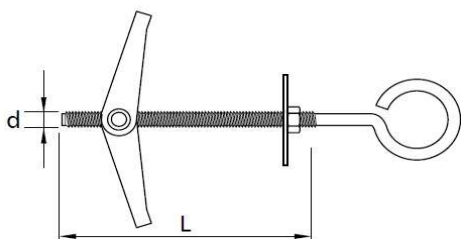




SVRDLO Ø 12 Ø 16

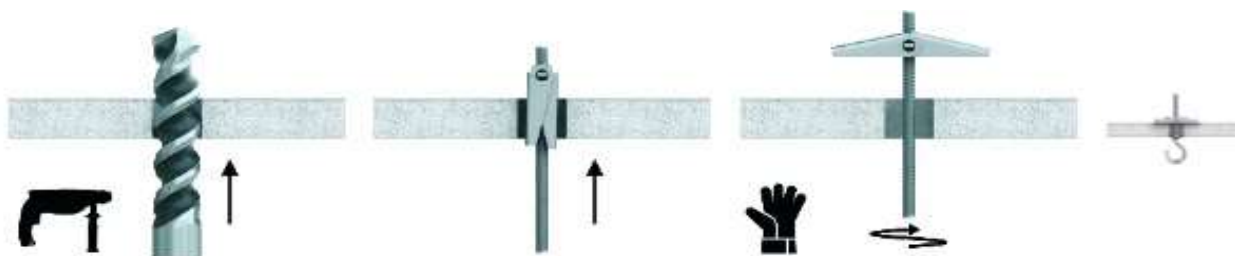
$\frac{D}{L}$	M4	M5
50	○	
75	○	○
90		○

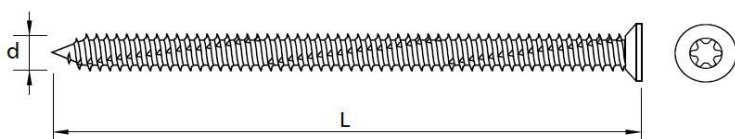




SVRDLO Ø 12 Ø 16

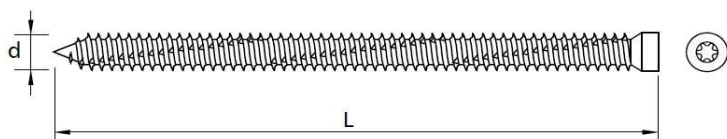
$\frac{D}{L}$	M4	M5
50	○	
75	○	○
90		○



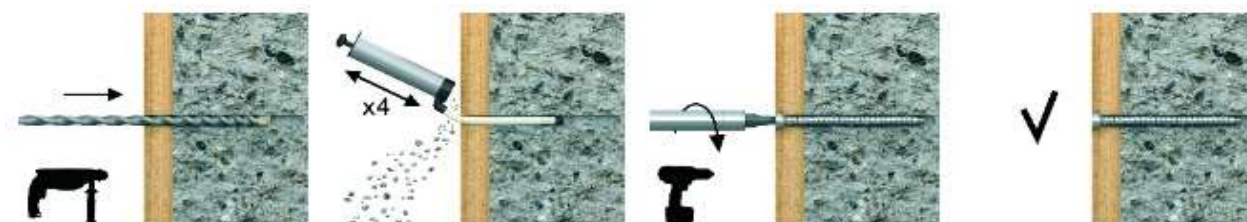


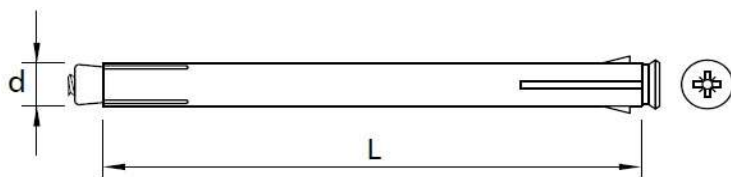
$\frac{D}{L}$	$\varnothing 7,5$	Svrđlo
52	o	6,0 / 6,5
72	o	6,0 / 6,5
92	o	6,0 / 6,5
112	o	6,0 / 6,5
132	o	6,0 / 6,5
152	o	6,0 / 6,5
182	o	6,0 / 6,5
202	o	6,0 / 6,5
212	o	6,0 / 6,5
252	o	6,0 / 6,5
302	o	6,0 / 6,5





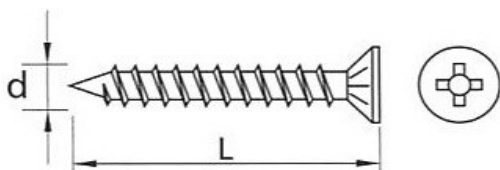
$\frac{D}{L}$	$\varnothing 7,5$	Svrđlo
72	o	6,0 / 6,5
92	o	6,0 / 6,5
112	o	6,0 / 6,5
132	o	6,0 / 6,5
152	o	6,0 / 6,5
182	o	6,0 / 6,5
202	o	6,0 / 6,5
212	o	6,0 / 6,5
252	o	6,0 / 6,5
302	o	6,0 / 6,5



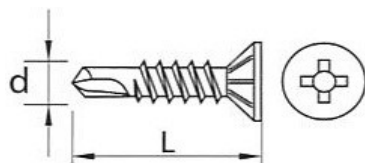


$\begin{matrix} D \\ L \end{matrix}$	$\varnothing 10$
72	o
92	o
112	o
132	o
152	o
182	o
202	o

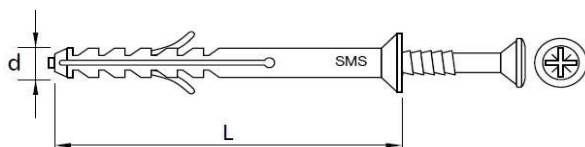
Svrdlo
10
10
10
10
10
10
10



$L \backslash D$	$\varnothing 4,0$
25	o
30	o
35	o
40	o
45	o
50	o

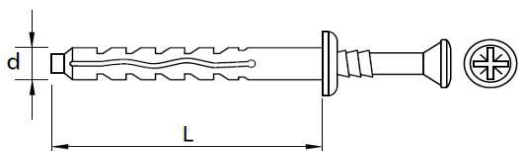


$L \backslash D$	$\varnothing 3,9$
13	o
16	o
19	o
25	o
32	o
38	o



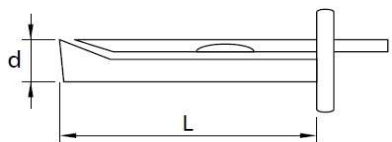
$\begin{matrix} D \\ L \end{matrix}$	$\varnothing 6$	$\varnothing 8$	$\varnothing 10$
40	○		
60	○	○	
80	○	○	○
100		○	○
120		○	○
140		○	○
160		○	○
180			○
200			○
220			○





$L \backslash D$	$\varnothing 6$
40	○
60	○
80	○

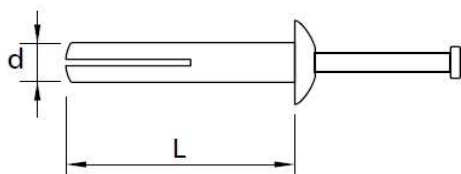




$\frac{D}{L}$	$\varnothing 6$
35	Ø
40	Ø
65	Ø

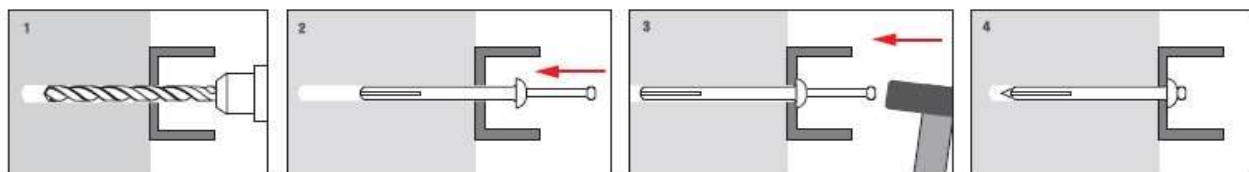
Svrdlo
6
6
6

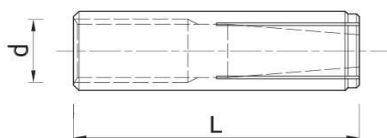




$\frac{D}{L}$	$\varnothing 6$
30	Ø 6
40	Ø 6
50	Ø 6
65	Ø 6

Svrđlo
6
6
6
6

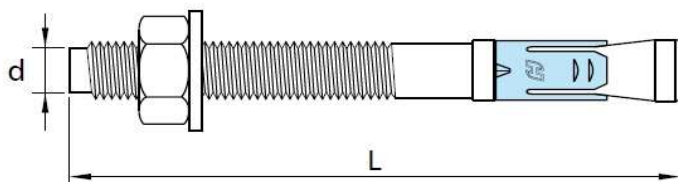




SVRDLO	Ø 8	Ø 10	Ø 12	Ø 15	Ø 20	Ø 25
--------	-----	------	------	------	------	------

$\begin{matrix} D \\ L \end{matrix}$	M 6	M 8	M 10	M 12	M 16	M 20
25	○					
30		○				
40			○			
50				○		
65					○	
80						○

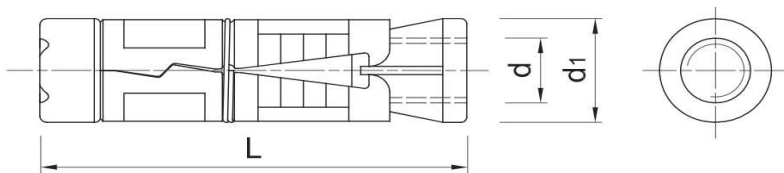




SVRDLO	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16	Ø 20	Ø 24
--------	-----	-----	------	------	------	------	------

$\begin{matrix} D \\ L \end{matrix}$	M 6	M 8	M 10	M 12	M 16	M 20	M 24
50	○	○					
60	○	○					
65	○	○	○				
75		○	○				
80	○	○	○	○			
85		○	○				
90		○	○				
95		○	○				
100	○	○	○	○	○		
105					○		
115		○	○				
120		○	○	○			
125				○	○	○	
130		○	○				
135				○			
140		○	○	○	○		
150		○	○	○	○		
160					○	○	
180			○	○	○		○
200					○	○	
220				○	○	○	
240					○		
250				○	○		
260							○
280					○		
300				○	○	○	○

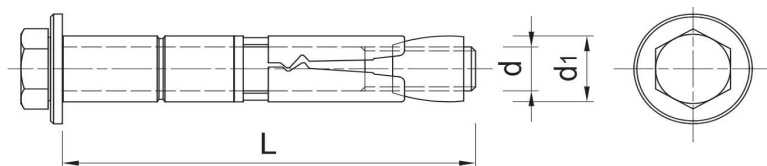




d _{nom}	Ø 10	Ø 12	Ø 15	Ø 18
------------------	------	------	------	------

L \ D	M 6	M 8	M 10	M 12
45	○			
50		○		
60			○	
75				○

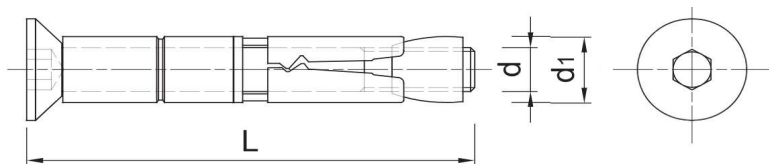




d ₁	Ø 10	Ø 12	Ø 16	Ø 18	Ø 24
----------------	------	------	------	------	------

L \ d	M 6	M 8	M 10	M 12	M 16
70	○				
80	○	○			
100	○	○	○		
120	○	○	○	○	
140		○	○		○
150				○	
160			○		
170				○	○
200				○	○
220					○

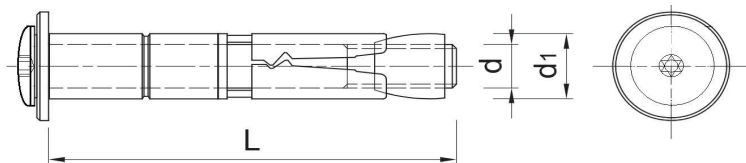




d ₁	Ø 10	Ø 12	Ø 16	Ø 18
----------------	------	------	------	------

L \ d	M 6	M 8	M 10	M 12
85	○	○		
105	○	○		
110			○	
120				○
125	○	○		
130			○	
140				○

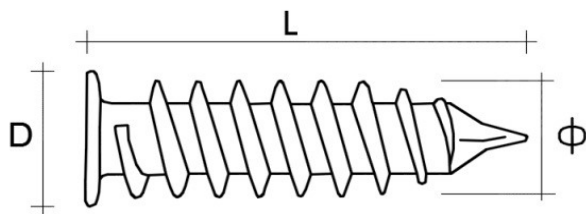




d ₁	Ø 12	Ø 16
----------------	------	------

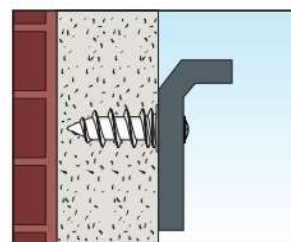
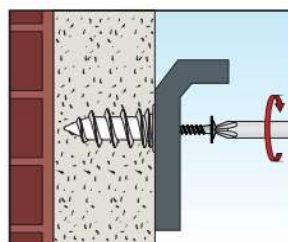
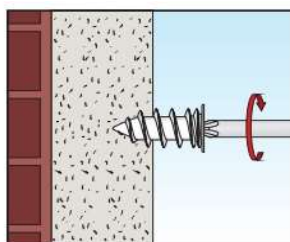
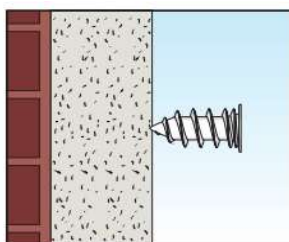
L \ d	M 8	M 10
80	○	
100	○	○
120	○	○

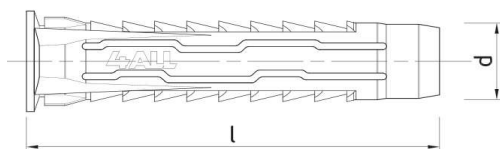




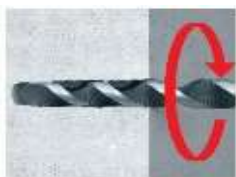
$\begin{matrix} D \\ L \end{matrix}$	Ø 23	Ø 27
50	○	
58		○
90		○

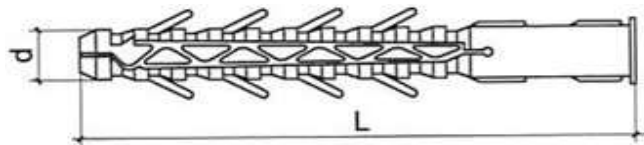
Ø	VIJAK	DOSJED
23	3.5 - 4.5	T40
27	4 - 6	SW10
27	8 - 10	SW13





$\begin{matrix} D \\ L \end{matrix}$	$\varnothing 6$	$\varnothing 8$	$\varnothing 10$	$\varnothing 12$
33	o			
52		o		
67			o	
73				o

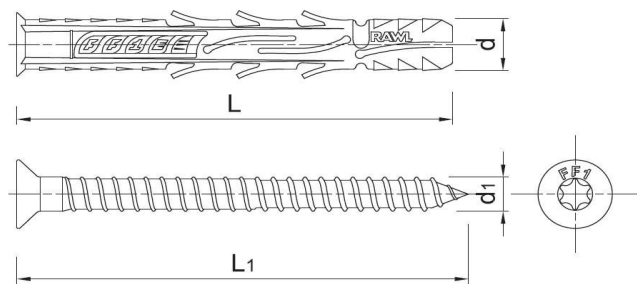




VIJAK	Ø 8	Ø 10	Ø 12	Ø 16
-------	-----	------	------	------

$\begin{matrix} D \\ L \end{matrix}$	Ø 8	Ø 10	Ø 12	Ø 16
65	○			
80	○	○	○	
100	○	○	○	○
115		○		
120	○		○	
135		○		
140	○		○	○
160		○	○	○
180		○	○	
200		○	○	○
220		○	○	
240			○	○
260			○	
280			○	
300			○	





L	D	$\varnothing 10$
80		0
100		0
120		0
140		0
160		0
180		0
200		0
220		0

d_1	L_1
7	85
7	105
7	125
7	145
7	165
7	185
7	205
7	225

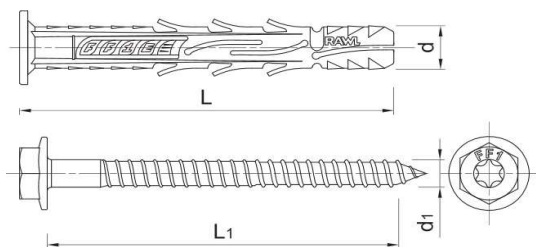


DTS 543

Univerzalna fasadna tipla sa šesterokutnim torx vijkom SW 13 / T40

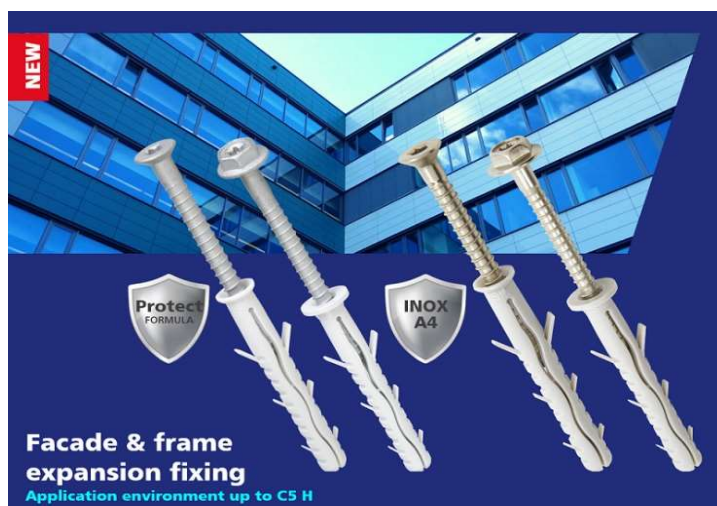
Nylon / ZN
PROTECT 1000™

A4-INOX

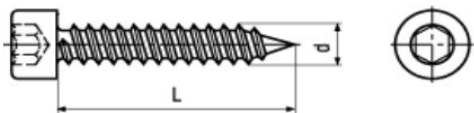


$\frac{D}{L}$	$\varnothing 10$
60	○
80	○
100	○
120	○
140	○
160	○
180	○
200	○
220	○
260	○
300	○

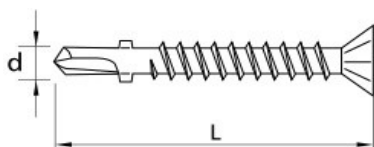
d_1	L_1
7	69
7	89
7	109
7	129
7	149
7	169
7	185
7	209
7	225
7	249
7	309



e-željezara
web shop

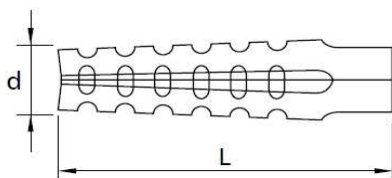


$\begin{matrix} D \\ L \end{matrix}$	$\varnothing 4,8$	$\varnothing 5,5$	$\varnothing 6,3$
13	o	o	
16	o	o	o
19	o	o	o
22	o	o	o
25	o	o	o
32	o	o	o
38	o	o	o
45	o	o	o
50	o	o	o
60	o	o	o
70	o	o	o
80			o

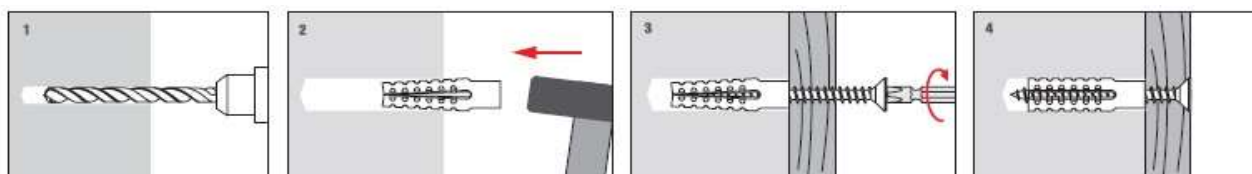


$\begin{matrix} D \\ L \end{matrix}$	Ø4,8	Ø5,5	Ø6,3
32	o		
38	o	o	
45	o	o	
50	o	o	o
55		o	
60			o
70			o
80			o
90			o





$\begin{matrix} D \\ L \end{matrix}$	$\varnothing 6$	$\varnothing 8$	$\varnothing 10$
32	o		
38		o	
60		o	o





D	$\varnothing 67$
L	20
	Ø



DTS 548

Kliješta za preklopne tiple DTS 524



SPC-0300SFPSF1, 300 ml. Polymix (bez stirena)**SPC-0420EXSSF1, 420 ml. Polymix Ultra (bez stirena)**

EXSSF

**FEATURES AND BENEFITS**

- Anchoring heavy and medium-load carrying attachments of threaded rods to concrete.
- All-weather bonding system for concrete.
- **Quick-cure formula.**
- **Base material temp.: -10°C to +29°C.**
- Dry, wet or flooded bore holes.
- Overhead installation allowed.
- Suitable for attachment points also close to the edge.
- Reaction to fire: Satisfy requirements for Class A1.
- Styrene free.
- **LEED certified for Green Building.**
- Colour: Grey
- Cartridge: 420ml

BASE MATERIAL

- Non-cracked concrete C 20/25 to C 50/60,
- Reinforced concrete,
- Unreinforced concrete

APPLICATIONS

- Barriers,
- Steel constructions,
- Handrails,
- Structural steel,
- Racking systems,
- Railings.



ETA-12/0450
ETA-19/0324
DoP 1343-CPR-M 626-1

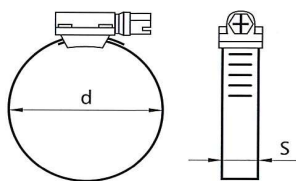
**INSTALLATION TIME POLYMIX ULTRA**

Concrete temperature [°C]	Working time [min]	Min. curing time [min]
-10 ÷ -6	60	240
-5 ÷ -1	45	120
0 ÷ +4	25	80
+5 ÷ +9	10	45
+10 ÷ +14	4	25
+15 ÷ +19	3	20
+20 ÷ +29	2	15
Cartridge temperature		-5 ÷ +30 [°C]

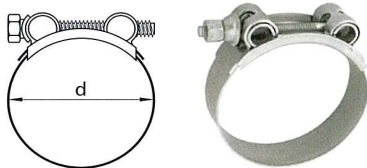
DTS 550

Aku pištolj za kemijski mort DTS 549





d \ s	9 mm	12 mm
8 - 12	○	
10 - 16	○	
12 - 22	○	
16 - 25	○	○
20 - 32	○	○
25 - 40	○	○
32 - 50	○	○
40 - 60	○	○
50 - 70	○	○
60 - 80	○	○
70 - 90	○	○
80 - 100	○	
90-110		○
100-120		○
110-130		○
130-160		○
150-180		○
170-200		○
190-220		○
210-240		○
230-260		○
250-280		○
270-300		○



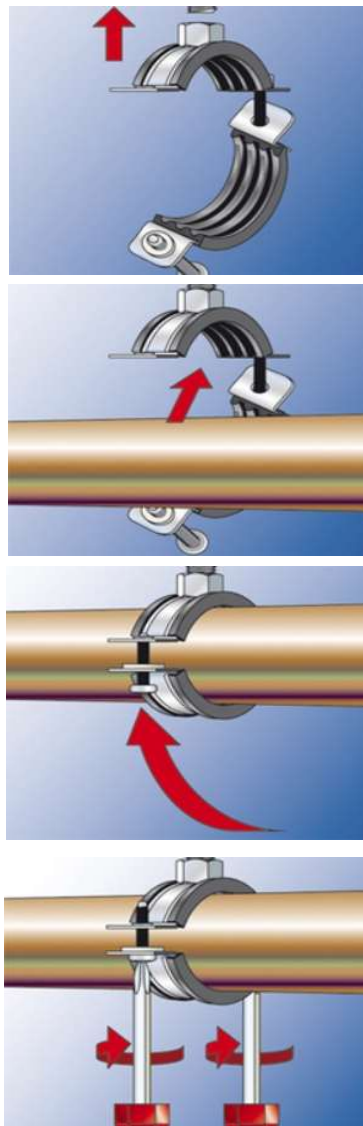
$d \backslash s$	18 mm
17 - 19	o
20 - 22	o
23 - 25	o
26 - 28	o
29 - 31	o
30 - 33	o
32 - 35	o
36 - 39	o
40 - 43	o
44 - 47	o
42 - 46	o
48 - 51	o
52 - 55	o
56 - 59	o
61 - 63	o
64 - 67	o
68 - 73	o
74 - 79	o
80 - 85	o
86 - 91	o
92 - 97	o
98 - 103	o
104-112	o
113-121	o
122-130	o
131-139	o
140-148	o
149-161	o
162-174	o
175-185	o
188-200	o
201-213	o
214-226	o

$d \backslash s$	18 mm
227-239	o
240-252	o
268-280	o



Raspon promjera	
12 - 14	○
15 - 19	○
20 - 23	○
24 - 28	○
31 - 35	○
38 - 43	○
48 - 51	○
52 - 56	○
57 - 63	○
63 - 67	○
70 - 73	○
74 - 80	○
83 - 91	○
108-114	○
120-125	○
130-136	○
136-142	○
159-163	○
165-169	○

Inch
1/4
3/8
1/2
3/4
1
1 1/4
1 1/2
-
2
-
-
2 1/2
3
4
-
-
5
-
6

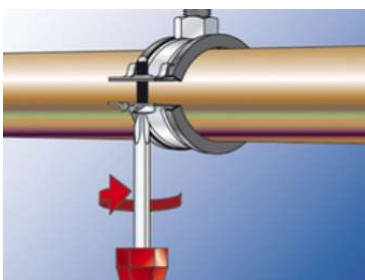
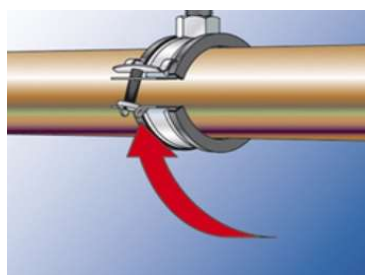
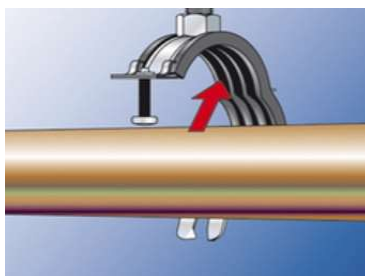
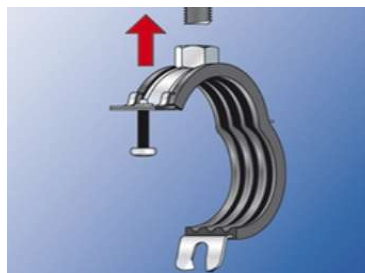



Raspon promjera

6 - 10	○
12 - 15	○
16 - 19	○
20 - 23	○
25 - 29	○
32 - 35	○
40 - 44	○
48 - 52	○
53 - 57	○
58 - 60	○

Inch

-
1/4
3/8
1/2
3/4
1
1 1/4
1 1/2
-
2



DX3 - Sacto jednoručna kliješta 2.4 - 4.8mm***DX65 - Sacto dvoručna kliješta 3.0 - 6.4******DX8 - Sacto harmonika kliješta 3.0 - 6.4***

DX16 - Sacto jednoručna kliješta 2.4 - 5.0mm***DX20 - Sacto dvoručna kliješta 2.4 - 5.0***

NX55 - Sacto jednoručna kliješta M3 - M6***CNX65 - Sacto dvoručna kliješta M3 - M10******NX70 - Sacto dvoručna kliješta M6 - M12***

NX36 - Sacto pneumatska kliješta M3 - M10***NX40S - Sacto pneumatska kliješta M6 - M12***

DTS 559

Aku pištolj za montažu blok zakovica DIN 7337

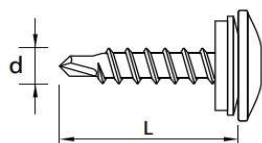


DX50B - Sacto Aku pištolj 2.4 - 5.0mm

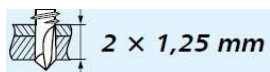




$\begin{matrix} D \\ L \end{matrix}$	$\varnothing 4,5$
25	o
30	o
35	o
40	o



T25



$\frac{D}{L}$	$\varnothing 4,8$
19	o
35	o

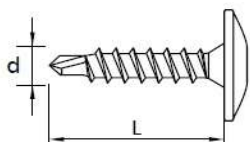
DTS 561 BP

Samobušėči vijak za međusobno spajanje limova bez podloške

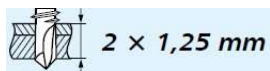
ZN

ZN / RAL

PROTECT 1000™



T25



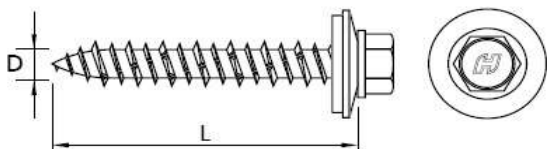
$\frac{D}{L}$	$\varnothing 4,8$
19	o
35	o

DTS 562

Samourezni vijak za beton sa inox EPDM podloškom

PROTECT 1000™

ZN



$\frac{D}{L}$	$\varnothing 6,0$
35	Ø
45	Ø
65	Ø

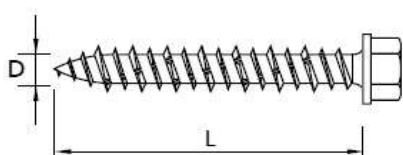
G_{max}
3
12
32

SVRDLO
Ø5
Ø5
Ø5



DTS 562 BP

Samourezni vijak za beton bez podloške



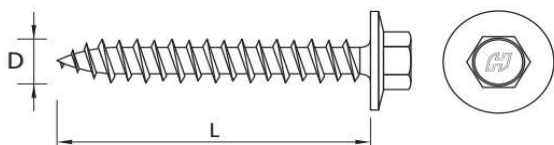
$\frac{D}{L}$	$\varnothing 6,0$
35	Ø
45	Ø
65	Ø

G_{max}
5
15
35

SVRDLO
Ø5
Ø5
Ø5

DTS 562 BPV

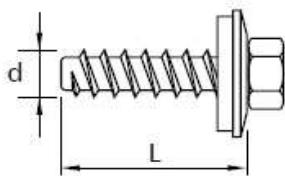
Samourezni vijak za beton bez podloške



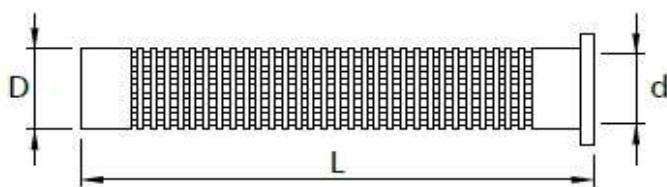
$\frac{D}{L}$	$\varnothing 6,4$
40	Ø
57	Ø

G_{max}
10
40

SVRDLO
Ø5
Ø5

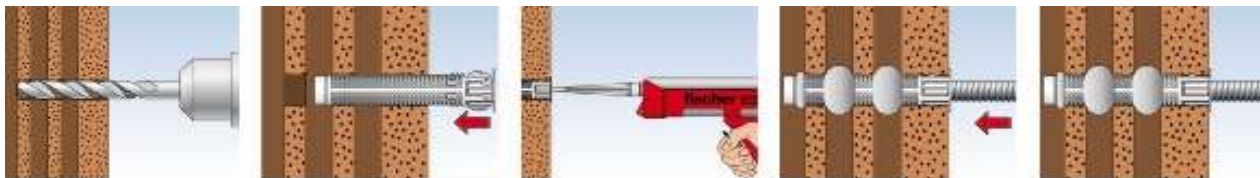


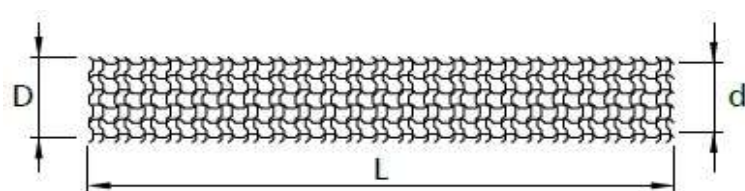
$\begin{matrix} d \\ L \end{matrix}$	$\varnothing 6,3$
19	o
25	o
32	o
38	o
45	o
50	o
63	o
75	o
100	o
130	o
150	o
175	o
200	o
225	o
250	o



M	M6-M8	M8-M10	M12-M16
d	9	13	18

$\frac{D}{L}$	Ø12	Ø16	Ø20
80	○		
85		○	○
130		○	○
200			○
330		○	

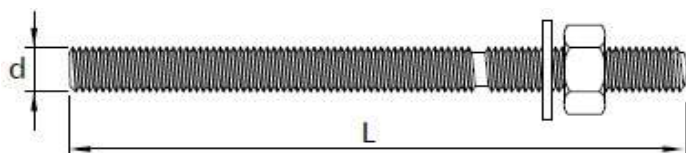




d	M8	M10-M12	M16-M18
---	----	---------	---------

$\frac{D}{L}$	Ø12	Ø16	Ø20
1000	o	o	o





ZN 5.8

$\begin{matrix} d \\ L \end{matrix}$	M 8	M 10	M 12	M 16	M 20
110	○				
125				○	
130		○			
160			○		
190			○	○	
260					○

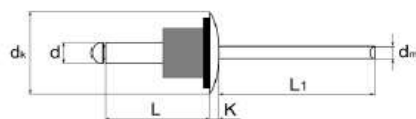
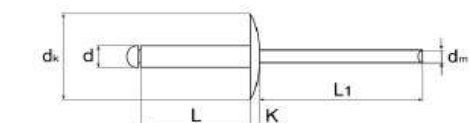
VZN 8.8

$\begin{matrix} d \\ L \end{matrix}$	M 8	M 10	M 12	M 16	M 20
110	○				
125				○	
130		○			
160			○		
190			○	○	
260					○

A2 - INOX



$\begin{matrix} d \\ L \end{matrix}$	M 8	M 10	M 12	M 16	M 20
110	○				
130		○			
160			○		
190				○	
260					○



	Ø 4,0	Ø 4,8
d _k	15	16
d _m	2.15	3
L ₁	34	34
K	1.5	2.5



L \ d	Ø 4,0	Ø 4,8
10		○
12		○
14		○
16		○
18	○	○
20		○
26		○
30		○
35		○

Dostupne mogućnosti izvedbi zakovica:

DTS 564 - zakovica

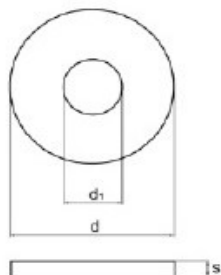
DTS 564 G - zakovica sa Epdm podloškom

DTS 564 NTD - zakovica sa centrirajućim odstojnikom

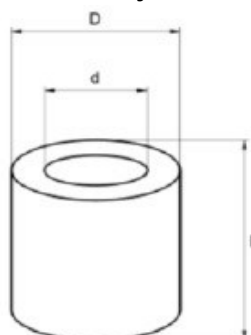
DTS 564 NTDG - zakovica sa centrirajućim odstojnikom i Epdm podloškom



G - Epdm podloška (12 x 4.4 x 1.2)



NTD - centrirajući odstojnik



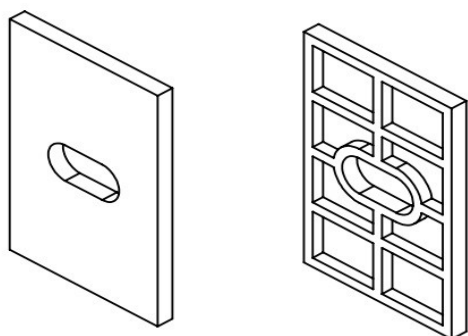
Ø zak.	Ø 4,0	Ø 4,8
d	4.1	4.9
D	9.4	9.4
L	8	8

DTS 568

Thermostop podloška

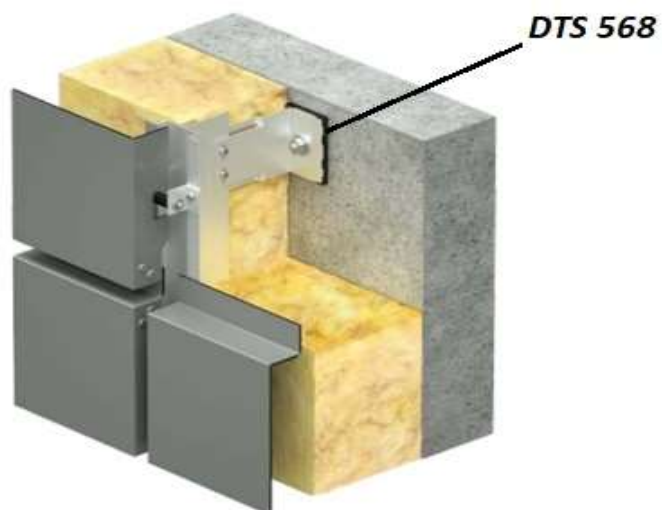
POLIAMID

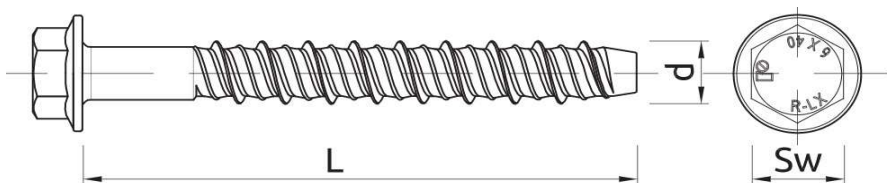
- za ventilirane aluminijske fasade



b	l	h
50	75	5

Ostale dimenzije na upit.

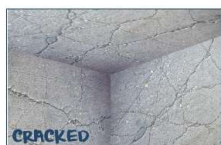




$L \backslash d$	Ø 6.6	Ø 7.8	Ø 8	Ø 10	Ø 12	Ø 16
40		o				
45	o	o				
50		o				
60	o	o		o		
70					o	
80	o	o	o	o		
90					o	
100	o	o	o	o		
110					o	
120	o	o	o	o		
130					o	o
140		o	o	o		
150					o	o
160			o			
180						o
190					o	
210					o	
230					o	
250					o	
290					o	
310					o	



Concrete



Cracked concrete



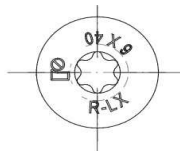
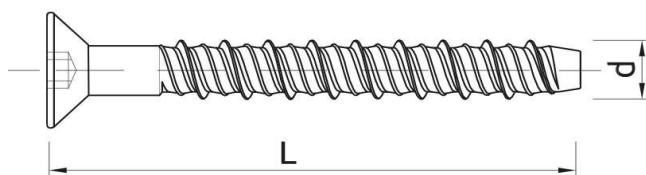
Reinforced concrete



Hollow-core slab



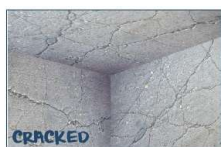
Stone



$L \backslash d$	Ø 6.6	Ø 8	Ø 10	Ø 12
60	o			
70		o		
80	o	o	o	
100	o	o	o	o
120	o	o	o	o
140		o		
160			o	
180				o



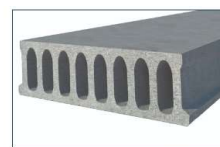
Concrete



Cracked concrete



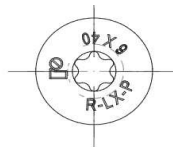
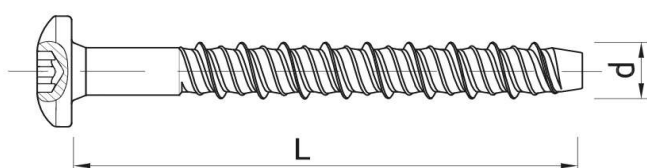
Reinforced concrete



Hollow-core slab



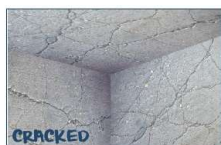
Stone



$\begin{matrix} d \\ L \end{matrix}$	Ø 7.8	Ø 10
60	o	o
80	o	o
100	o	o
120	o	o



Concrete



Cracked concrete



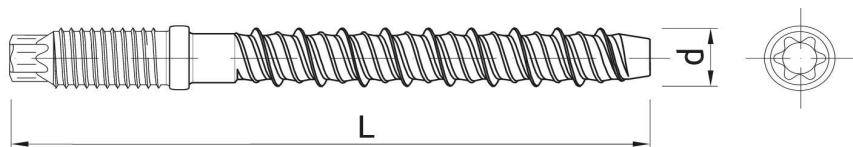
Reinforced concrete



Hollow-core slab



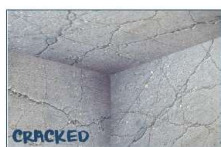
Stone



$L \backslash d$	Ø 8	Ø 10	Ø 12
90	o		
105		o	
118			o
120	o		
125		o	
138			o
160	o		
195		o	
208			o
248			o



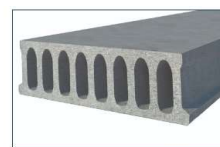
Concrete



Cracked concrete



Reinforced concrete



Hollow-core slab



Stone

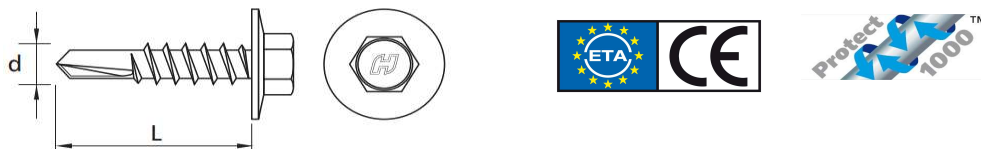
DTs 573 G

Samobušeci fasadni vijak sa velikom glavom

PROTECT 1000TM

- Za spajanje fasadnih nosača na metalnu konstrukciju

- Debljina bušenja lima 2 - 6 mm



PROTECT 1000TM

$\frac{D}{L}$	$\varnothing 5,5$
25	0

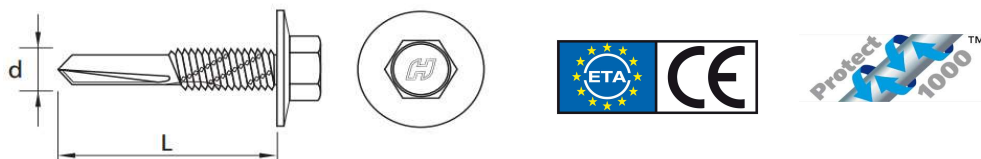
DTs 573 F

Samobušeci fasadni vijak sa velikom glavom

PROTECT 1000TM

- Za spajanje fasadnih nosača na čeličnu P4498 konstrukciju

- Debljina bušenja čeličnih profila 4 - 12 mm



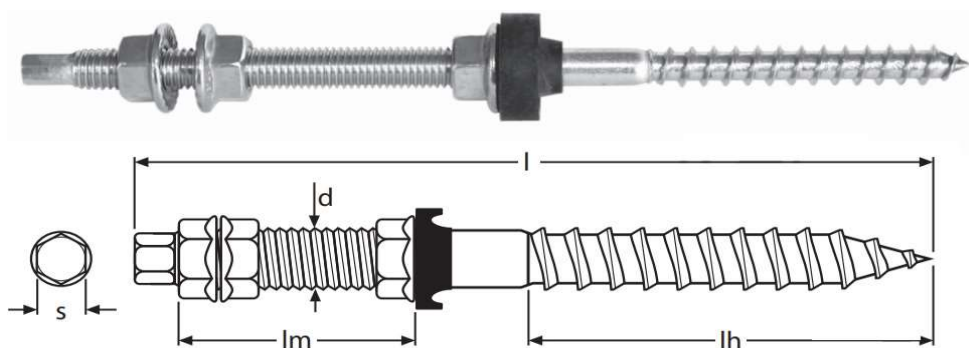
PROTECT 1000TM

$\frac{D}{L}$	$\varnothing 5,5$
38	0

SOLARNI SISTEMI MONTAŽE

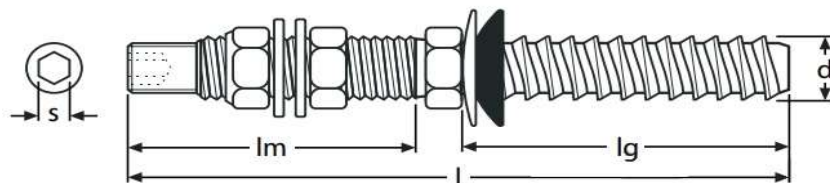


- za podkonstrukciju od drva

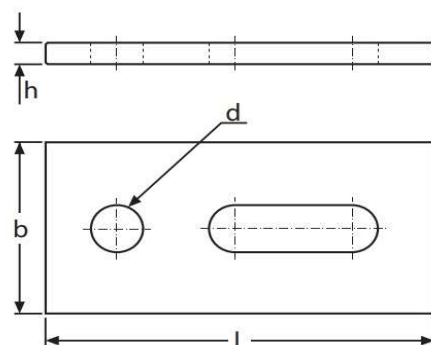


d	l	600-1 (navoj)		600-2 (navoj)		s
		l_m	l_h	l_m	l_h	
Ø10	160	70	67	-	-	7
Ø10	180	85	67	100	60	7
Ø10	200	85	67	110	70	7
Ø10	250	85	67	130-145	80	7
Ø10	300	150	67	140-165	100	7
Ø12	200	100	80	110	70	9
Ø12	250	100	100	130	100	9
Ø12	300	150	100	140	100	9
Ø12	350	195	100	180	130	9
Ø12	400	220	100	-	-	9

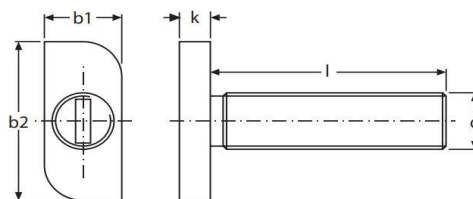
- za podkonstrukciju od metala



d	l		l_m	l_g	s
M 8	136		80	50	5
M 8	156		80	70	5
M 8	156		100	50	5
M 8	176		100	70	5
M 8	181		125	50	5
M 8	201		125	70	5
M 8	206		150	50	5
M 8	216		160	50	5
M 8	226		150	70	5
M 8	236		160	70	5
M 8	256		200	50	5
M 8	276		200	70	5


INOX

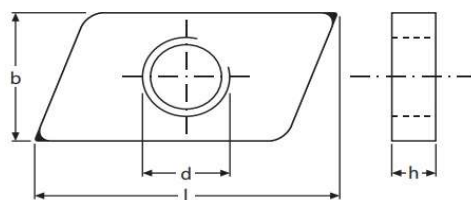
d	l	b	h
9	82	40	5
11	80	30	5
11	82	30	5
11	82	40	5
11	110	40	5
13	82	40	5
13	110	40	5



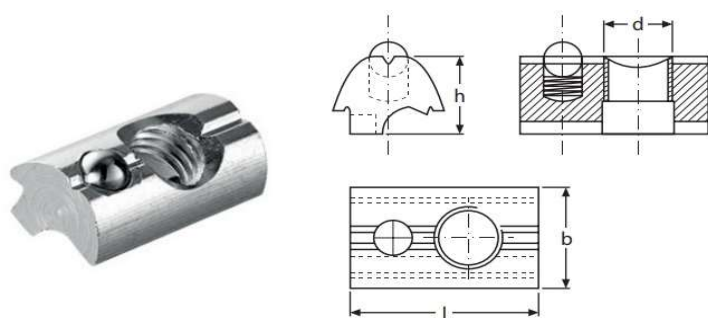
k	4,0	4,5	6,0
b_1	10	10	10
b_2	22,5	22,5	22,5

d	M 8	M 10	M 12
---	-----	------	------

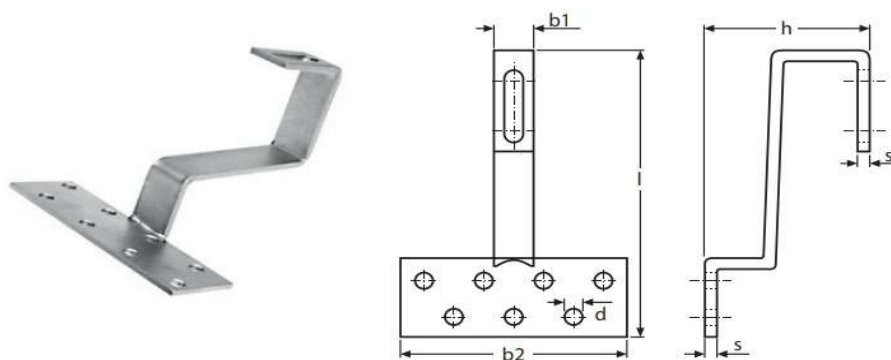
16	o	o	o
20	o	o	o
25	o	o	o
30	o	o	o
35	o	o	o
40	o	o	o
45	o	o	o
50	o	o	o
55	o	o	o
60	o	o	o
65	o	o	o
70	o	o	o
75	o	o	o
80	o	o	o
100	o	o	o
125	o	o	o
150	o	o	o
200	o	o	o



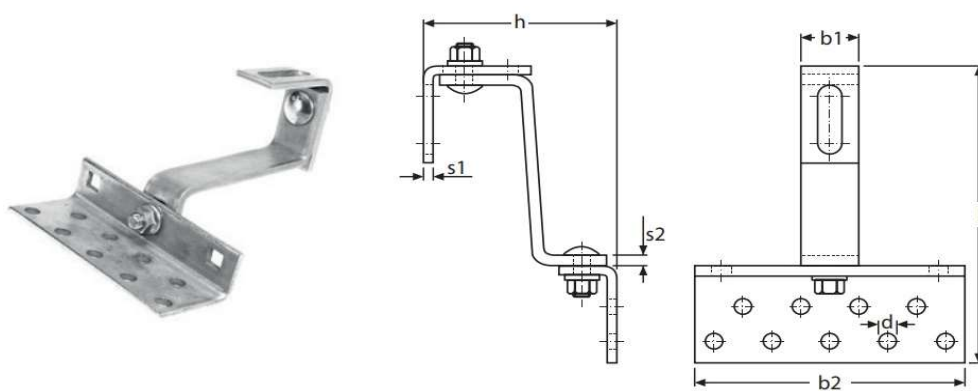
d	l	b	h
M 8	27	13	4
M 10	27	13	4



d	l	b	h
M 8	22	13	10

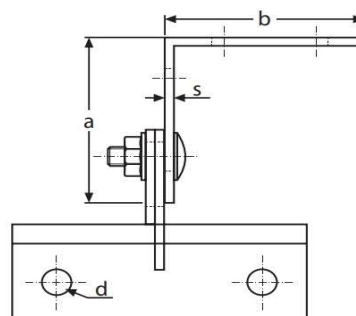
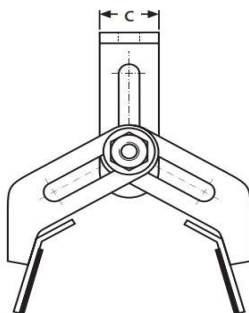


d	baza	b_1	b_2	l	h	s
9	150x50	30	150	160	125	5
9	150x60	30	150	166	130	5
9	180x70	35	180	190	128	8



INOX

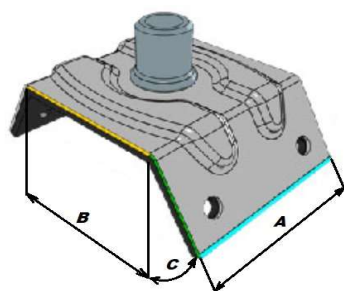
d	baza	b_1	b_2	l	h	s_1	s_2
9	140x56	30	140	176	145	5	5
9	140x56	30	140	171	145	5	6



a	b	c	s	d
56	65	30	5	7

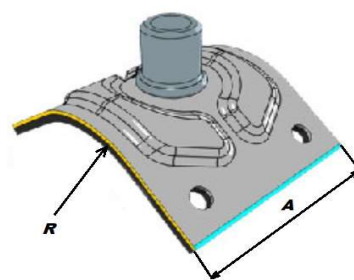
- za montažu solarnih sistema na krovovima

* vijak za spajanje kalota na lim ili panel DTS 500 S



DTS 609

NAZIVNA	A	B	C	
18-76	49	18	76°	○
21-16	49	21	16°	○
25-27	49	25	27°	○
26-15	49	26	15°	○
26-50	49	26	50°	○
32-35	49	32	35°	○
34-23	49	34	23°	○
36-40	49	36	40°	○
41-17	49	41	17°	○
41-32	49	41	32°	○
45-17	49	45	17°	○
54-32	49	54	32°	○
177-55	49	177	55°	○



DTS 609 S

NAZIVNA	A	R (mm)	
R 24	49	24	○
R 33	49	33	○
R 48	49	48	○



* Mogućnost isporuke bez upresnih matica odnosno samo sa rupom fi 8.5 ili fi 13 mm.



DIN 338 HSS Cobalt 5% svrdlo za metal

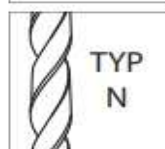
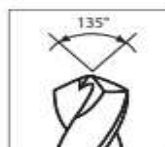


L1= ukupna dužina svrdla (mm)

L2= radna dužina svrdla (mm)

d	vpc	L ₁	L ₂
1.0	o	34	12
1.5	o	40	18
2.0	o	49	24
2.5	o	57	30
3.0	o	61	33
3.1	o	65	36
3.2	o	65	36
3.3	o	65	36
3.5	o	70	39
4.0	o	75	43
4.1	o	75	43
4.2	o	75	43
4.5	o	80	47
4.8	o	80	47
4.9	o	80	47
5.0	o	86	52
5.1	o	86	52
5.2	o	86	52
5.5	o	93	57
6.0	o	93	57
6.5	o	101	63
7.0	o	109	69
7.5	o	109	69
8.0	o	117	75
8.5	o	117	75
9.0	o	125	81
9.5	o	125	81
10.0	o	133	87
10.5	o	133	87
11.0	o	142	94
11.5	o	142	94
12.0	o	151	101
12.5	o	151	101
13.0	o	151	101

DIN 338



HSS-E
5 % Co



Multi svrdlo

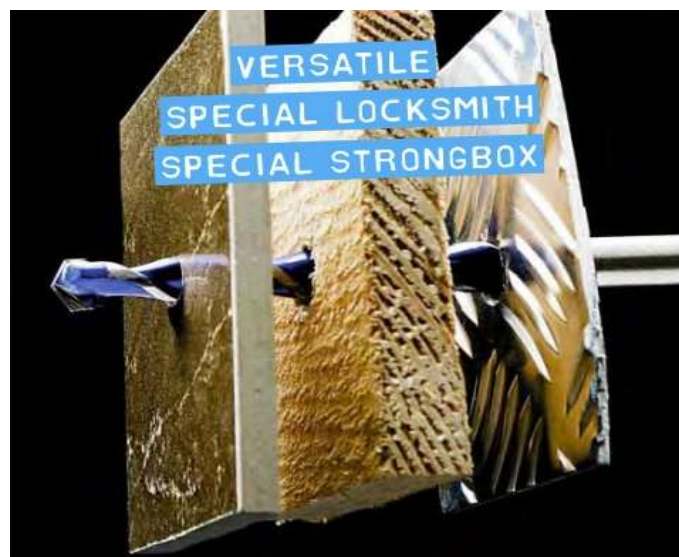


L1= ukupna dužina svrdla (mm)

L2= radna dužina svrdla (mm)

d	vpc
3.0	○
4.0	○
5.0	○
5.5	○
6.0	○
6.5	○
8.0	○
10.0	○
12.0	○

L ₁	L ₂
75	40
80	45
90	50
95	55
100	60
100	60
120	70
120	70
160	105



Strijela svrdlo



L1= ukupna dužina svrdla (mm)

d	vpc
3.0	○
4.0	○
5.0	○
6.0	○
8.0	○
10.0	○
12.0	○

L ₁
80
80
80
80
100
100
100

LENGTH

UP TO 100 MM

- Total length improved
- Shiny / copper finishing

Benefits

- Allows drilling into deep materials
- Suitable for more applications
- New Diager design

FAST SPIRAL

- Tightened pitch

Benefits

- Speed up dust removal
- Better in deep materials

CARBIDE TIP

- High hardness carbide tip (made in Europe)
- New 4 faces carbide tip design
- Copper brazing

Benefits

- Accurate drilling precision
- Better penetration results
- Drilling through tiles up to class 3
- Dry and wet applications
- Better resistance to friction



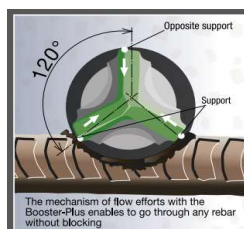
SDS- 3 PLUS SVRDLO ZA BETON



L1= ukupna dužina svrdla (mm)

L2= radna dužina svrdla (mm)

d	vpc	L ₁	L ₂
5	○	110	60
5	○	160	100
5	○	260	200
5	○	310	250
5	○	360	300
6	○	110	60
6	○	160	100
6	○	210	150
6	○	260	200
6	○	310	250
6.5	○	260	200
6.5	○	310	250
8	○	160	100
8	○	210	150
8	○	260	200
8	○	310	250
10	○	160	100
10	○	210	150
10	○	260	200
10	○	310	250
10	○	460	410
10	○	610	560
12	○	160	100
12	○	210	150
12	○	260	200
12	○	310	250
12	○	460	410
14	○	260	200
14	○	310	240
16	○	210	150
16	○	260	200
16	○	310	250
16	○	460	410
16	○	610	560



RESISTANCE TO OVERHEATING

The solid monobloc carbide tip, is inserted and brassed with copper, resistant to over 1000°C temperature raise

HAMMERING EFFECT

3X 135° edges, combine the most efficient drilling without cracking the concrete around

PRECISION

The self centering tip design, drives the bit straight

TRAJECTORY CONTROL

90°

PERFECT HOLE, PERFECT ANCHORING

hooster PLUS VS competitive drill bit

Answers to all world technical standards agreements

BETTER DUST REMOVAL CAPACITIES

hooster PLUS VS competitive drill bit

Its design offers the largest dust removal on its market

SPECIAL REINFORCED CONCRETE

SDS-6 MAX SVRDLO ZA BETON



L1= ukupna dužina svrdla (mm)
L2= radna dužina svrdla (mm)

d	vpc	L ₁	L ₂
16	○	340	200
16	○	540	400
16	○	690	550
16	○	920	780
18	○	340	200
18	○	540	400
20	○	340	200
20	○	540	400
20	○	690	550
20	○	920	780
20	○	1500	1360
22	○	340	200
22	○	540	400
22	○	920	780
22	○	1300	1160
24	○	340	200
24	○	540	400
25	○	340	200
25	○	540	400
25	○	920	780
25	○	1500	1360
28	○	340	200
28	○	540	400
28	○	690	550
28	○	1500	1360
30	○	340	200
30	○	540	400
30	○	690	550
30	○	920	780
32	○	340	200
32	○	540	400
32	○	920	780
32	○	1500	1360
35	○		200

NEW SDS-MAX DRILL BIT
ULTIMAX 646
100% CARBIDE HEAD - 10 CUTTERS **new**

DRILLS THROUGH OVERSIZED REBAR*

UP TO Ø22 mm

* Hand tests with 20 joules hammer drill

+ 1000 HOLES*

* Tests on an automatic bench, 8.8 joules hammer drill, C50/60 concrete, 150 mm hole depth, 24 mm hole diameter.

HIGH SPEED DRILLING*

30 CM PER MINUTE

* Tests on an automatic bench, C50/60 concrete, average on the 300 first holes

IDEAL FOR POWERFUL HAMMER DRILL

20 JOULES >12 KG

d	vpc
35	○
35	○
35	○
38	○
38	○
40	○
40	○
40	○

L ₁	L ₂
540	400
690	550
920	1160
340	200
540	400
340	200
540	400
920	780

Rezna ploča za željezo i inox



DIA (mm)	TxB (mm)
115	1.0 x 22.23
115	1.6 x 22.23
115	2.5 x 22.23
125	1.0 x 22.23
125	1.6 x 22.23
125	2.5 x 22.23
180	1.6 x 22.23
180	2.5 x 22.23
230	1.9 x 22.23
230	2.5 x 22.23

Brusna ploča za željezo i inox



DIA (mm)	TxB (mm)
115	6.4 x 22.23
125	6.4 x 22.23
180	6.4 x 22.23
230	6.4 x 22.23

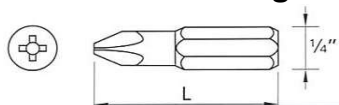
Lamelna ploča za željezo i inox



<i>DIA</i> (mm)	GRADACIJA
115	40
115	60
115	80
115	120

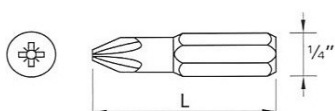
Ostale dimenzije na upit.

Bit nastavci i magnetni držači



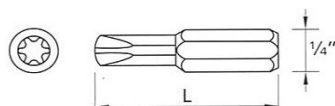
NASTAVAK 1/4" - PH

$\frac{D}{L}$	PH 1	PH 2	PH 3
25	○	○	○
50	○	○	○
150		○	
200		○	
250		○	
300		○	
350		○	



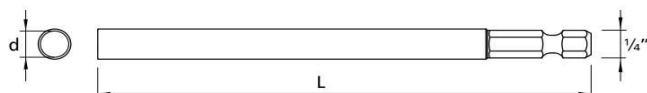
NASTAVAK 1/4" - PZ

$\frac{D}{L}$	PZ 1	PZ 2	PZ 3
25	○	○	○
50	○	○	○

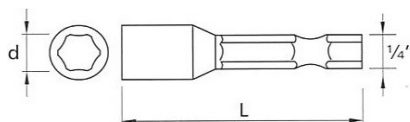


NASTAVAK 1/4" - TX

$\frac{D}{L}$	T10	T20	T25	T30	T40
25	○	○	○	○	○
50			○	○	○
150			○		
200			○		
250			○		

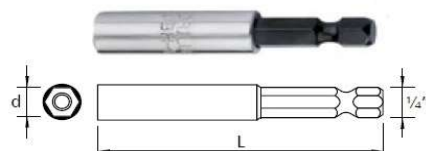


DRŽAČ NASTAVKA PRIHVAT 1/4" x 500 mm M6



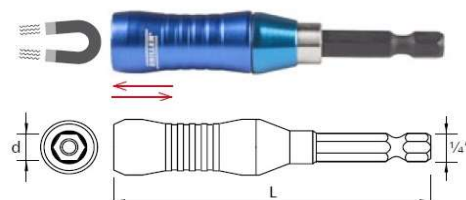
MAGNETNI DRŽAČ 1/4" - SW

$\frac{D}{L}$	8	10
45	○	○
50	○	○
150	○	
200	○	

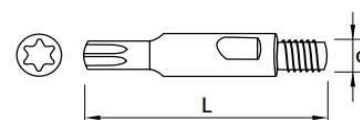


MAGNETNI DRŽAČ 1/4"

$\frac{D}{L}$	1/4"
50	○



$\frac{D}{L}$	1/4"
75	○



NASTAVAK M 6

$\frac{D}{L}$	PH2	T25	T30
33	○		
45	○	○	○

Bit nastavci kompleti



BNK - 29 Magnetni držač 1/4"
Ravni: 3, 4, 5, 6, 7
Torx: T10, T15, T20, T25, T27, T30
Philips: Ph0, Ph1, Ph2, Ph3
Pozidriv: Pz0, Pz1, Pz2, Pz3
Kvadrat: 0, 1, 2, 3
Hex: 2, 3, 4, 5, 6

NATURAL - THOR

Prirodna koža

EN388:2016

EN420:2013+A1:2009

Veličina: 9, 10, 11



NATURAL - WOLF

Prirodna koža

EN388:2016

EN420:2013+A1:2009

Veličina: 9, 10, 11



NATURAL - HERKULES

Prirodna koža

EN388:2016

EN420:2013+A1:2009

Veličina: 9, 10, 11



NATURAL - GREMLIN

Prirodna koža / pamuk

EN388:2016

EN420:2013+A1:2009

Veličina: 8, 9, 10, 11



PREMIUM - DELTA

Mechanic

EN388:2016

Veličine: 9, 10



PREMIUM - TYTAN

Anti cut, level 5

EN388:2016

Veličine: 9, 10



PREMIUM - ZEFIR

Super comfort & precision

EN388:2016

Veličine: 6, 7, 8, 9, 10



NEPTUN

Vodootporne

EN388:2016

Veličine: 8, 9, 10



WINTER - YETI

EN388:2016

Veličine: 9, 10, 11



WINTER - MAMUT

Double layer

EN388:2016

Veličine: 8, 9, 10



ELF

EN388:2016

Veličine: 7, 8, 9, 10, 11



VIRGO

Rukavice za zavarivanje

Goveđa koža

EN388:2016

EN407

Veličine: 10, 11



Zaštitne naočale

STANDARD - N-OKU01

UV odporne, prozirne



STANDARD PLUS - N-OKU02

UV odporne, prozirne



INDUSTRY - N-OKU03

UV odporne na ogrebotine, prozirne



INDUSTRY - N-OKU03-1

UV odporne na ogrebotine, tamne



Zaštitne naočale

INDUSTRY - N-OKU03-2

UV odporne na ogrebotine, žute



N-OKU04

UV odporne na ogrebotine sa regulacijom, prozirne



INDUSTRY - N-OKU5-1

UV odporne na ogrebotine, kameleon



INDUSTRY - N-OKU5-2

UV odporne na ogrebotine, srebrne



Zaštitne naočale

INDUSTRY - N-OKU6

UV odporne na ogrebotine
neklizajuće, kameleon



INDUSTRY - N-OKU7

UV odporne na ogrebotine 2u1
prozirne

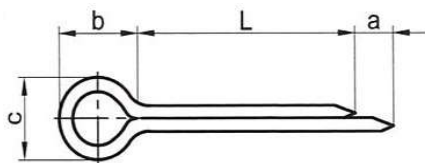


N-SLU01

29.8 dB

EN352-1





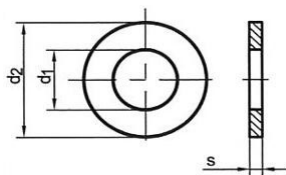
d	Ø1,6	Ø2	Ø2,5	Ø3,2	Ø4	Ø5	Ø6,3	Ø8	Ø10	Ø13
b	3.2	4	5	6.4	8	10	12.6	16	20	26
a	1.25	1.25	1.25	1.6	2	2	2	2	3.2	3.2
c	2.8	3.6	4.6	5.8	7.4	9.2	11.8	15	19	24.8

$\frac{D}{L}$	Ø1,6	Ø2	Ø2,5	Ø3,2	Ø4	Ø5	Ø6,3	Ø8	Ø10	Ø13
10	o									
12	o									
14	o	o	o							
16	o	o	o							
18	o	o	o	o						
20	o	o	o	o	o	o				
22	o	o	o	o	o	o				
25	o	o	o	o	o	o				
32	o	o	o	o	o	o	o			
36		o	o	o	o	o	o			
40		o	o	o	o	o	o	o		
50			o	o	o	o	o	o	o	
56				o	o	o	o	o	o	
63				o	o	o	o	o	o	o
71					o	o	o	o	o	o
80						o	o	o	o	o
90						o	o	o	o	o
100							o	o	o	o
112								o	o	o
125								o	o	o
140								o	o	o

HRN M.B2.011
DIN 125
ISO 7089
UNI 6592

Podložna pločica
Scheiben
Flat washers
Rondelle plane

FE
ZN
VZN
A2
A4



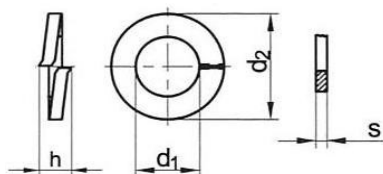
M	ZN
3	○
4	○
5	○
6	○
8	○
10	○
12	○
14	○
16	○
18	○
20	○
22	○
24	○
27	○
30	○
33	○
36	○

d ₁	d ₂	s
3.2	7.0	0.5
4.3	9.0	0.8
5.3	10.0	1.0
6.4	12.5	1.6
8.4	16.0	1.6
10.5	20.0	2.0
13.0	24.0	2.5
15.0	28.0	2.5
17.0	30.0	3.0
19.0	34.0	3.0
21.0	37.0	3.0
23.0	39.0	3.0
25.0	44.0	4.0
28.0	50.0	4.0
31.0	56.0	4.0
34.0	60.0	5.0
37.0	66.0	5.0

HRN M.B2.110
DIN 127
ISO 4042
UNI 1751

Opružna podložna pločica
Federring glatt
Spring washers
Rondelle

FE
ZN
VZN
A2
A4



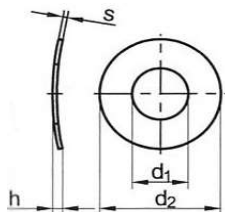
<i>M</i>	<i>ZN</i>
3	○
4	○
5	○
6	○
8	○
10	○
12	○
14	○
16	○
18	○
20	○
22	○
24	○
27	○
30	○
33	○
36	○

<i>d₁</i>	<i>d₂</i>	<i>s</i>	<i>h</i>
3.1	6.2	0.8	1.6
4.1	7.6	0.9	1.8
5.1	9.2	1.2	2.4
6.1	11.8	1.6	3.2
8.1	14.8	2.0	4.0
10.2	18.1	2.2	4.4
12.2	21.1	2.5	5.0
14.2	24.1	3.0	6.0
16.2	27.4	3.5	7.0
18.2	29.4	3.5	7.0
20.2	33.6	4.0	8.0
22.5	35.9	4.0	8.0
24.5	40.0	5.0	10.0
27.5	43.0	5.0	10.0
30.5	48.2	6.0	12.0
33.5	53.2	6.0	12.0
36.5	58.2	6.0	12.0

HRN M.B2.136
DIN 137
ISO
UNI 8840

Valovitá podložná pločka

FE
ZN



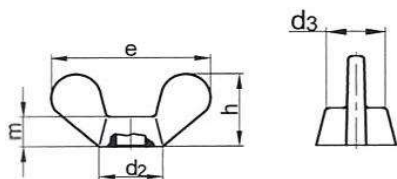
<i>M</i>	<i>ZN</i>
3	○
4	○
5	○
6	○
8	○
10	○

<i>d₁</i>	<i>d₂</i>	<i>s</i>	<i>h</i>
3.2	6.0	0.4	1.3
4.3	8.0	0.5	1.6
5.3	10.0	0.5	1.8
6.4	11.0	0.5	2.2
8.4	15.0	0.5	3.4
10.5	18.0	0.8	4.0

HRN M.B1.680
DIN 315
ISO 5448
UNI 5448

Krilna matica
Flugelmuttern
Wing nuts
Dadi ad alette

ZN
A2
A4



" LJEVANA "

M	ZN
4	○
5	○
6	○
8	○
10	○
12	○

e	h	m	d ₂	d ₃
20.0	10.5	4.6	8.0	7.0
26.0	13.0	6.5	11.0	9.0
33.0	17.0	8.0	13.0	11.0
39.0	20.0	10.0	16.0	12.5
51.0	25.0	12.0	20.0	16.5
65.0	33.5	14.0	23.0	19.5

" AMERIČKI OBLIK "

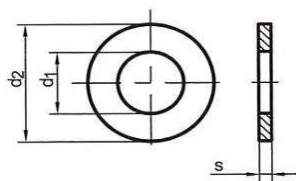
M	ZN
4	○
5	○
6	○
8	○
10	○
12	○

e	h	m	d ₂
18.5	8.8	3.0	7.8
22.0	10.5	4.0	9.5
26.8	12.9	4.9	11.9
30.3	14.8	5.4	13.5
35.3	17.3	6.3	15.3
47.5	22.5	7.9	20.5

HRN M.B2.013
DIN 433
ISO 7092
UNI 6592

Podložna pločica
Scheiben
Flat washers
Rosette plane

ZN



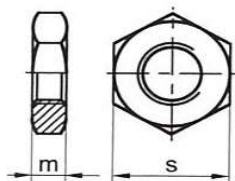
<i>M</i>	<i>ZN</i>
3	○
4	○
5	○
6	○
8	○
10	○
12	○
14	○
16	○
18	○
20	○

<i>d₁</i>	<i>d₂</i>	<i>s</i>
3.2	6.0	0.5
4.3	8.0	0.5
5.3	9.0	1.0
6.4	11.0	1.6
8.4	15.0	1.6
10.5	18.0	1.6
13.0	20.0	2.0
15.0	24.0	2.5
17.0	28.0	2.5
19.0	30.0	2.5
21.0	34.0	3.0

HRN M.B1.604
DIN 439
ISO 4035
UNI 5590

Šesterokutna niska matica

ZN



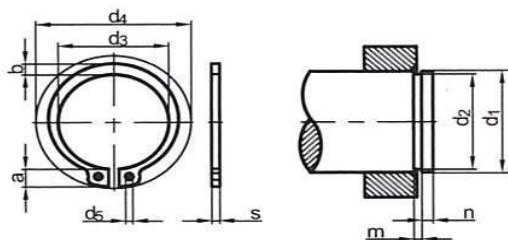
<i>M</i>	<i>ZN</i>
3	o
4	o
5	o
6	o
8	o
10	o
12	o
14	o
16	o
18	o
20	o
22	o
24	o
27	o
30	o

<i>m</i>	<i>s</i>
1.8	5.5
2.2	7
2.7	8
3.2	10
4/5	13
5/6	16/17
6/7	18/19
7/8	21/22
8	24
9	27
10/9	30
11/10	34/32
12/10	36
13,5/12	41
15/12	46

HRN M.C2.401
DIN 471
ISO
UNI 7435

Uskočnik vanjski

FE

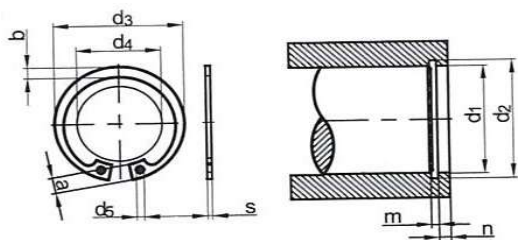


d_1	s	d_3	a	b	d_5	d_2	m	n	d_4
3	0.4	2.7	1.9	0.8	1.0	2.8	0.5	0.3	7.0
4	0.4	3.7	2.2	0.9	1.0	3.8	0.5	0.3	8.6
5	0.6	4.7	2.5	1.1	1.0	4.8	0.7	0.3	10.3
6	0.7	5.6	2.7	1.3	1.2	5.7	0.8	0.5	11.7
7	0.8	6.5	3.1	1.4	1.2	6.7	0.9	0.5	13.5
8	0.8	7.4	3.2	1.5	1.2	7.6	0.9	0.6	14.7
9	1.0	8.4	3.3	1.7	1.2	8.6	1.1	0.6	16.0
10	1.0	9.3	3.3	1.8	1.5	9.6	1.1	0.6	17.0
11	1.0	10.2	3.3	1.8	1.5	10.5	1.1	0.8	18.0
12	1.0	11.0	3.3	1.8	1.7	11.5	1.1	0.8	19.0
13	1.0	11.9	3.4	2.0	1.7	12.4	1.1	0.9	20.2
14	1.0	12.9	3.5	2.1	1.7	13.4	1.1	0.9	21.4
15	1.0	13.8	3.6	2.2	1.7	14.3	1.1	1.1	22.6
16	1.0	14.7	3.7	2.2	1.7	15.2	1.1	1.2	23.8
17	1.0	15.7	3.8	2.3	1.7	16.2	1.1	1.2	25.0
18	1.2	16.5	3.9	2.4	2.0	17.0	1.3	1.5	26.2
19	1.2	17.5	3.9	2.5	2.0	18.0	1.3	1.5	27.2
20	1.2	18.5	4.0	2.6	2.0	19.0	1.3	1.5	28.4
21	1.2	19.5	4.1	2.7	2.0	20.0	1.3	1.5	29.6
22	1.2	20.5	4.2	2.8	2.0	21.0	1.3	1.5	30.8
24	1.2	22.2	4.4	3.0	3.0	22.9	1.3	1.7	33.2
25	1.2	23.2	4.4	3.0	3.0	23.9	1.3	1.7	34.2
26	1.2	24.2	4.5	3.1	3.1	24.9	1.3	1.7	35.5
28	1.5	25.9	4.7	3.2	3.2	26.6	1.6	2.1	37.9
29	1.5	26.9	4.8	3.4	3.4	27.6	1.6	2.1	39.1
30	1.5	27.9	5.0	3.5	3.5	28.6	1.6	2.1	40.5
32	1.5	29.6	5.2	3.6	3.6	30.3	1.6	2.6	43.0
34	1.5	31.5	5.4	3.8	3.8	32.3	1.6	2.6	45.4
35	1.5	32.2	5.6	3.9	3.9	33.0	1.6	2.6	46.8
36	1.75	33.2	5.6	4.0	4.0	34.0	1.6	3.0	47.8

HRN M.C2.400
DIN 472
ISO
UNI 7437

Uskočnik unutarnji

FE

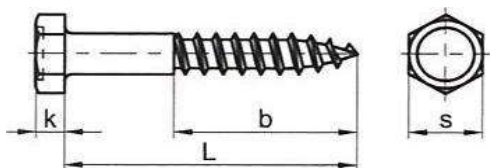


d_1	s	d_3	a	b	d_5	d_2	m	n	d_4
8	0.8	8.7	2.4	1.1	1.0	8.4	0.9	0.6	3.0
9	0.8	9.8	2.5	1.3	1.0	9.4	0.9	0.6	3.7
10	1.0	10.8	3.2	1.4	1.2	10.4	1.1	0.6	3.3
11	1.0	11.8	3.3	1.5	1.2	11.4	1.1	0.6	4.1
12	1.0	13.0	3.4	1.7	1.5	12.5	1.1	0.6	4.9
13	1.0	14.1	3.6	1.8	1.5	13.6	1.1	0.9	5.4
14	1.0	15.1	3.7	1.9	1.7	14.6	1.1	0.9	6.2
16	1.0	16.2	3.8	2.0	1.7	16.8	1.1	1.2	8.0
17	1.0	17.3	3.9	2.1	1.7	17.8	1.1	1.2	8.8
18	1.0	18.3	4.1	2.2	2.0	19.0	1.1	1.5	9.4
19	1.0	19.5	4.1	2.2	2.0	20.0	1.1	1.5	10.4
20	1.0	20.5	4.2	2.3	2.0	21.0	1.1	1.5	11.2
21	1.0	21.5	4.2	2.4	2.0	22.0	1.1	1.5	12.2
22	1.0	23.5	4.2	2.5	2.0	23.0	1.1	1.5	13.2
23	1.2	24.6	4.2	2.5	2.0	24.1	1.3	1.7	-
24	1.2	25.9	4.4	2.6	2.0	25.2	1.3	1.8	14.8
25	1.2	26.9	4.5	2.7	2.0	26.2	1.3	1.8	15.5
26	1.2	27.9	4.7	2.8	2.0	27.2	1.3	1.8	16.1
28	1.2	30.1	4.8	2.9	2.0	29.4	1.3	2.1	17.9
30	1.2	32.1	4.8	3.0	2.0	31.4	1.3	2.1	19.9
31	1.2	33.4	5.2	3.2	2.5	32.7	1.3	2.6	20.0
32	1.2	34.4	5.4	3.2	2.5	33.7	1.3	2.6	20.6
34	1.5	36.5	5.4	3.3	2.5	35.7	1.6	2.6	22.6
35	1.5	37.8	5.4	3.4	2.5	37.0	1.6	3.0	23.6
36	1.5	38.8	5.4	3.5	2.5	38.0	1.6	3.0	24.6
37	1.5	39.8	5.4	3.6	2.5	39.0	1.6	3.0	25.4
38	1.5	40.8	5.5	3.7	2.5	40.0	1.6	3.0	26.4
40	1.75	43.5	5.8	3.9	2.5	42.5	1.85	3.8	27.8
42	1.75	45.5	5.9	4.1	2.5	44.5	1.85	3.8	29.6
45	1.75	47.5	6.2	4.3	2.5	47.5	1.85	3.8	32.0

HRN M.B1.500
DIN 571
ISO 8735
UNI 704

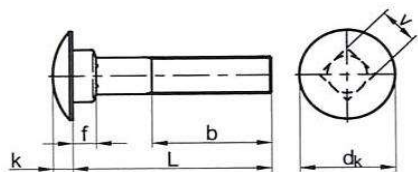
Vijak za drvo sa šesterobridnom glavom
Sechskant Holzschrauben
Hexagon head wood screws
Viti per legno a testa esagonale

ZN
A2
A4



d	Ø5	Ø6	Ø8	Ø10	Ø12
b	≥0.6 L	≥0.6 L	≥0.6 L	≥0.6 L	≥0.6 L
k	3.5	4	5.5	7	8
s	8	10	13	17	19

$\frac{D}{L}$	Ø5	Ø6	Ø8	Ø10	Ø12
20	o	o			
25	o	o			
30	o	o	o	o	
35	o	o	o	o	
40	o	o	o	o	o
45	o	o	o	o	o
50	o	o	o	o	o
55	o	o	o	o	o
60	o	o	o	o	o
65		o	o	o	o
70		o	o	o	o
80		o	o	o	o
90		o	o	o	o
100		o	o	o	o
110		o	o	o	o
120		o	o	o	o
130		o	o	o	o
140		o	o	o	o
150			o	o	o
160			o	o	o
180			o	o	o
200			o	o	o

HRN M.B1.171**DIN 603****ISO 8677****UNI 5732***Torban vijak**Flachrundschrauben mit Vierkantsatz**Round head square neck bolts**Bulloni a testa tonda***FE****ZN****A2****A4**

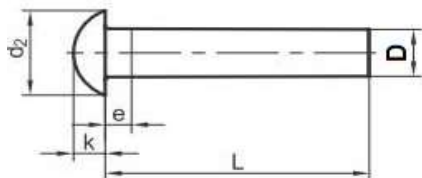
d	M 5	M 6	M 8	M 10	M 12
d_k	13.5	16.55	20.65	24.65	30.65
k	3.3	3.88	4.88	5.38	6.95
f	4.1	4.6	5.6	6.6	8.75
v	5.48	6.48	8.58	10.58	12.7
b_{min}	16	18	22	26	30

L \ D	M 5	M 6	M 8	M 10	M 12
16	○	○	○		
20	○	○	○	○	
25	○	○	○	○	○
30	○	○	○	○	○
35	○	○	○	○	○
40	○	○	○	○	○
45	○	○	○	○	○
50	○	○	○	○	○
55	○	○	○	○	○
60	○	○	○	○	○
65	○	○	○	○	○
70	○	○	○	○	○
75	○	○	○	○	○
80	○	○	○	○	○
90		○	○	○	○
100		○	○	○	○
110		○	○	○	○
120		○	○	○	○
130			○	○	
140			○	○	
150			○	○	
160			○	○	
180				○	
200				○	

HRN M.B3.011
DIN 660
ISO 1051
UNI 748

Zakovica sa poluokruglom glavom

FE
AL
CU



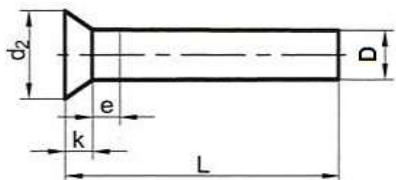
d	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
d ₂	3.5	5.2	7	8.8	10.5	12.2	14
k	1.2	1.8	2.4	3	3.6	4.2	4.8
e	1	1.5	2	2.5	3	3.5	4

$\frac{D}{L}$	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
4	o						
5	o	o					
6	o	o	o	o			
8	o	o	o	o			
10	o	o	o	o	o		
12		o	o	o	o		
16		o	o	o	o	o	o
18		o	o	o	o	o	o
20		o	o	o	o	o	o
22		o	o	o	o	o	o
25		o	o	o	o	o	o
30		o	o	o	o	o	o
32			o	o	o	o	o
35			o	o	o	o	o
40			o	o	o	o	o
45			o	o	o	o	o
50			o	o	o	o	o
55				o	o	o	o
60				o	o	o	o
65				o	o	o	o
70				o	o	o	o
75				o	o	o	o
80				o	o	o	o

HRN M.B3.012
DIN 661
ISO 1051
UNI

Zakovica sa upuštenom glavom

FE
AL
CU



d	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
d ₂	3.5	5.2	7	8.8	10.5	12.2	14
k	1	1.4	2	2.5	3	3.5	4
e	1	1.5	2	2.5	3	3.5	4

$\frac{D}{L}$	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
5	o	o					
6	o	o	o	o			
8	o	o	o	o			
10	o	o	o	o	o		
12		o	o	o	o		o
16		o	o	o	o		o
18		o	o	o	o		o
20		o	o	o	o		o
22		o	o	o	o		o
25		o	o	o	o	o	o
30		o	o	o	o	o	o
32			o	o	o	o	o
35			o	o	o	o	o
40			o	o	o	o	o
45				o	o	o	o
50				o	o	o	o
55				o	o	o	o
60				o	o	o	o
65				o	o	o	o
70				o	o	o	o
75				o	o	o	o
80				o	o	o	o

HRN M.B1.120
DIN 912
ISO 4762
UNI 5931

Imbus vijak

Zylinderschrauben mit Innensechskant

Hexagonal Socket Head Caps Screws

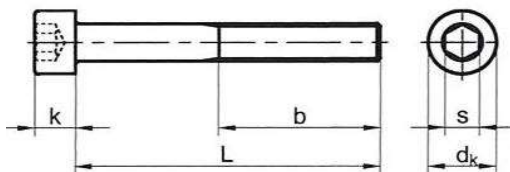
Viti a Testa Cava Con Esagono Incassato

FE

ZN

A2

A4



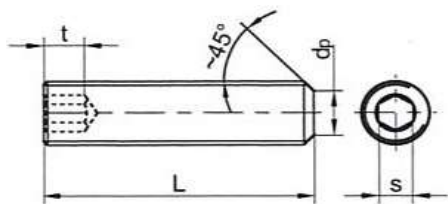
	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 24
d _k	7	8.5	10	13	16	18	21	24	27	30	36
k	4	5	6	8	10	12	14	16	18	20	24
s	3	4	5	6	8	10	12	14	14	17	19
b	20	22	24	28	32	36	40	44	48	52	60

$\begin{matrix} D \\ L \end{matrix}$	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 24
8	o	o	o								
10	o	o	o	o							
12	o	o	o	o	o						
16	o	o	o	o	o	o					
20	o	o	o	o	o	o					
25	o	o	o	o	o	o	o	o			
30	o	o	o	o	o	o	o	o	o	o	
35	o	o	o	o	o	o	o	o	o	o	
40	o	o	o	o	o	o	o	o	o	o	o
45	o	o	o	o	o	o	o	o	o	o	o
50	o	o	o	o	o	o	o	o	o	o	o
55	o	o	o	o	o	o	o	o	o	o	o
60	o	o	o	o	o	o	o	o	o	o	o
65		o	o	o	o	o	o	o	o	o	o
70		o	o	o	o	o	o	o	o	o	o
75			o	o	o	o	o	o	o	o	o
80			o	o	o	o	o	o	o	o	o
85			o	o	o	o	o	o	o	o	o
90			o	o	o	o	o	o	o	o	o
95			o	o	o	o	o	o	o	o	o
100			o	o	o	o	o	o	o	o	o
110					o	o	o	o	o	o	o
120					o	o	o	o	o	o	o
130					o	o	o	o	o	o	o
140					o	o	o	o	o	o	o

HRN M.B1.270
DIN 913 / 45H
ISO 4026
UNI 5923

Uvrtni imbus vijak sa ravnim završetkom

FE
ZN



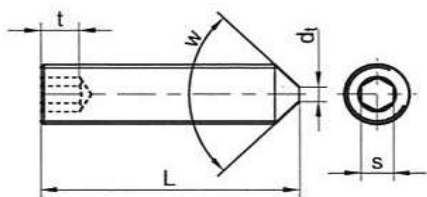
	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
d ₀	2	2.5	3.5	4	5.5	7	8.5	10	12	15	18
t	1.2	1.5	2	2	3	4	4.8	5.6	6.4	8	10
s	1.5	2	2.5	3	4	5	6	6	8	10	12

$\begin{matrix} D \\ L \end{matrix}$	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
3	○										
4	○	○	○								
5	○	○	○	○							
6	○	○	○	○	○						
8	○	○	○	○	○	○					
10	○	○	○	○	○	○	○				
12	○	○	○	○	○	○	○				
14	○	○	○	○	○	○	○		○		
16	○	○	○	○	○	○	○	○	○		
18	○	○	○	○	○	○	○	○	○		
20	○	○	○	○	○	○	○	○	○	○	○
25		○	○	○	○	○	○	○	○	○	○
30		○	○	○	○	○	○	○	○	○	○
35		○	○	○	○	○	○	○	○	○	○
40		○	○	○	○	○	○	○	○	○	○
45				○	○	○	○	○	○	○	○
50				○	○	○	○	○	○	○	○
60				○	○	○	○		○	○	○
70					○	○	○		○	○	○
80					○	○	○		○	○	○
90						○	○		○	○	○
100						○	○		○		○

HRN M.B1.271
DIN 914 / 45H
ISO 4027
UNI 5927

Uvrtni imbus vijak sa konusnim završetkom

FE
ZN



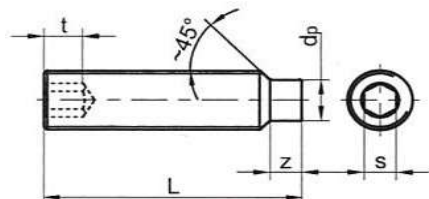
	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
d_t	2	2.5	3.5	4	5.5	7	8.5	10	12	15	18
t	1.2	1.5	2	2	3	4	4.8	5.6	6.4	8	10
s	1.5	2	2.5	3	4	5	6	6	8	10	12

D L	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
3	○										
4	○	○	○								
5	○	○	○	○							
6	○	○	○	○	○						
8	○	○	○	○	○	○					
10	○	○	○	○	○	○	○				
12	○	○	○	○	○	○	○	○			
14	○	○	○	○	○	○	○	○			
16	○	○	○	○	○	○	○	○	○		
18	○	○	○	○	○	○	○	○	○	○	
20	○	○	○	○	○	○	○	○	○	○	○
25		○	○	○	○	○	○	○	○	○	○
30		○	○	○	○	○	○	○	○	○	○
35		○	○	○	○	○	○	○	○	○	○
40		○	○	○	○	○	○	○	○	○	○
45				○	○	○	○		○	○	○
50				○	○	○	○		○	○	○
60					○	○	○		○	○	○
70						○	○		○	○	○
80						○	○		○	○	○
90						○	○		○	○	○
100						○	○		○		○

HRN M.B1.272
DIN 915 / 45H
ISO 4028
UNI 5925

Uvrtni imbus vijak sa manjim cilindričnim završetkom

FE
ZN



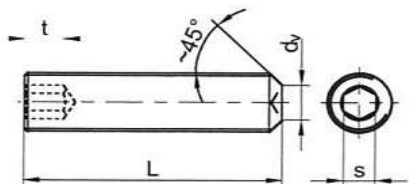
	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
d_p	2	2.5	3.5	4	5.5	7	8.5	10	12	15	18
z	1.75	2.25	2.75	3.25	4.3	5.3	6.3	7.36	8.36	10.36	12.43
t	1.2	1.5	2	2	3	4	4.8	5.6	6.4	8	10
s	1.5	2	2.5	3	4	5	6	6	8	10	12

D L	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
3	○										
4	○	○	○								
5	○	○	○	○							
6	○	○	○	○	○						
8	○	○	○	○	○	○					
10	○	○	○	○	○	○	○				
12	○	○	○	○	○	○	○	○			
14	○	○	○	○	○	○	○	○			
16	○	○	○	○	○	○	○	○	○		
18	○	○	○	○	○	○	○	○	○		
20	○	○	○	○	○	○	○	○	○	○	
25		○	○	○	○	○	○	○	○	○	
30		○	○	○	○	○	○	○	○	○	○
35		○	○	○	○	○	○	○	○	○	○
40		○	○	○	○	○	○	○	○	○	○
45				○	○	○	○		○	○	○
50				○	○	○	○		○	○	○
60					○	○	○		○	○	○
70					○	○	○		○	○	○
80					○	○	○		○	○	○
90										○	○
100											○

HRN M.B1.273
DIN 916 / 45H
ISO 4029
UNI 5929

Uvrtni imbus vijak sa stožasto upuštenim završetkom

FE
ZN



	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
d_v	1.4	2	2.5	3	4	5	6	6	8	10	12
t	1.2	1.5	2	2	3	4	4.8	5.6	6.4	8	10
s	1.5	2	2.5	3	4	5	6	6	8	10	12

D L	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
3	○										
4	○	○	○								
5	○	○	○	○							
6	○	○	○	○	○						
8	○	○	○	○	○	○					
10	○	○	○	○	○	○	○				
12	○	○	○	○	○	○	○	○			
14	○	○	○	○	○	○	○	○			
16	○	○	○	○	○	○	○	○	○		
18	○	○	○	○	○	○	○	○	○	○	
20	○	○	○	○	○	○	○	○	○	○	○
25		○	○	○	○	○	○	○	○	○	○
30		○	○	○	○	○	○	○	○	○	○
35		○	○	○	○	○	○	○	○	○	○
40		○	○	○	○	○	○	○	○	○	○
45			○	○	○	○	○	○	○	○	○
50				○	○	○	○	○	○	○	○
60					○	○	○		○	○	○
70					○	○	○		○	○	○
80					○	○	○		○	○	○
90						○	○		○	○	○
100						○	○		○		○

HRN M.B1.051
DIN 931
ISO 4014
UNI 5737

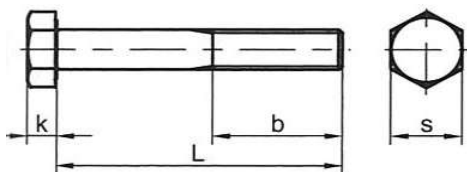
Vijak sa šesterobridnom glavom i navojem do pola

Sechskantschraube Mit Schaft Regel Gewinde

High Tensile Metric Hexagonal Bolts Course Threaded

Viti a testa esagonale con gambo parzialmente filettato a passo grosso

FE
ZN
VZN
A2
A4



	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24
s	7	8	10	13	17	19	22	24	27	30	32	36
k	2.8	3.5	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14	15
b	14	16	18	22	26	30	34	38	42	46	50	54

D L	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24
30	○	○	○	○								
35	○	○	○	○								
40	○	○	○	○	○	○						
45		○	○	○	○	○						
50		○	○	○	○	○	○	○				
55			○	○	○	○	○	○				
60			○	○	○	○	○	○	○	○		
65			○	○	○	○	○	○	○	○		
70			○	○	○	○	○	○	○	○	○	
75			○	○	○	○	○	○	○	○	○	○
80			○	○	○	○	○	○	○	○	○	○
85			○	○	○	○	○	○	○	○	○	○
90			○	○	○	○	○	○	○	○	○	○
95			○	○	○	○	○	○	○	○	○	○
100			○	○	○	○	○	○	○	○	○	○
110				○	○	○	○	○	○	○	○	○
120				○	○	○	○	○	○	○	○	○
130					○	○	○	○	○	○	○	○
140					○	○	○	○	○	○	○	○
150					○	○	○	○	○	○	○	○
160					○	○	○	○	○	○	○	○
170						○	○	○	○	○	○	○
180						○	○	○	○	○	○	○
190						○	○	○	○	○	○	○
200						○	○	○	○	○	○	○

HRN M.B1.053
DIN 933
ISO 4017
UNI 5739

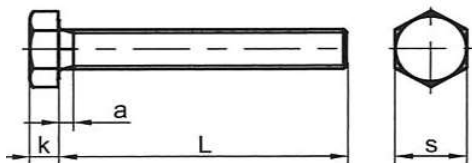
Vijak sa šesterobridnom glavom i navojem do glave

Sechskantschrauben Mit Gewinde Bis Kopf Regal Gewinde

High Tensile Metric Setscrews Course Threaded

Viti a testa esagonale

FE
ZN
VZN
A2
A4



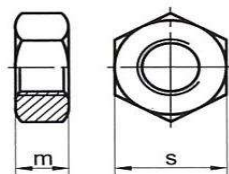
	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24
s	7	8	10	13	17	19	22	24	27	30	32	36
k	2.8	3.5	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14	15
a_{max}	2.1	2.4	3	3.75	4.5	5.25	6	6	7.5	7.5	7.5	9

D L	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24
6	o	o	o									
8	o	o	o									
10	o	o	o	o								
12	o	o	o	o	o							
16	o	o	o	o	o	o						
20	o	o	o	o	o	o						
25	o	o	o	o	o	o	o	o				
30	o	o	o	o	o	o	o	o	o	o	o	o
35	o	o	o	o	o	o	o	o	o	o	o	o
40	o	o	o	o	o	o	o	o	o	o	o	o
45		o	o	o	o	o	o	o	o	o	o	o
50		o	o	o	o	o	o	o	o	o	o	o
55		o	o	o	o	o	o	o	o	o	o	o
60		o	o	o	o	o	o	o	o	o	o	o
65		o	o	o	o	o	o	o	o	o	o	o
70		o	o	o	o	o	o	o	o	o	o	o
75			o	o	o	o	o	o	o	o	o	o
80			o	o	o	o	o	o	o	o	o	o
85			o	o	o	o	o	o	o	o	o	o
90			o	o	o	o	o	o	o	o	o	o
95			o	o	o	o	o	o	o	o	o	o
100			o	o	o	o	o	o	o	o	o	o
110						o	o	o	o	o	o	o
120						o	o	o	o	o	o	o

HRN M.B1.601
DIN 934 8.
ISO 4032
UNI 5588

Šesterokutna matica
Sechskant muttern
Hexagonal Nuts
Dadi esagonali

FE
ZN
VZN
A2
A4



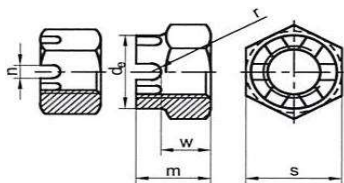
M	FE	ZN	VZN
3	○	○	
4	○	○	
5	○	○	
6	○	○	
8	○	○	○
10	○	○	○
12	○	○	○
14	○	○	○
16	○	○	○
18	○	○	
20	○	○	○
22	○	○	
24	○	○	○
27	○	○	
30	○	○	
33	○	○	
36	○	○	
39	○	○	
42	○	○	
45	○	○	
48	○	○	

m	s
2.4	5.5
3.2	7.0
4.0	8.0
5.0	10.0
6.5	13.0
8.0	17.0
10.0	19.0
11.0	22.0
13.0	24.0
15.0	27.0
16.0	30.0
18.0	32.0
19.0	36.0
22.0	41.0
24.0	46.0
26.0	50.0
29.0	55.0
31.0	60.0
34.0	65.0
36.0	70.0
38.0	75.0

HRN M.B1.630
DIN 935
ISO 7035
UNI 5593

Šesterokutna krunasta matica
Kronenmuttern
Hex castle nuts
Dadi ad intagli

ZN



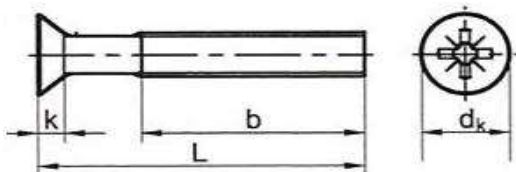
M	ZN
8	○
10	○
12	○
16	○
20	○

d_{max}	m	n_{min}	s	w
	9.5	2.5	13.0	6.5
	12.0	2.8	17.0	8.0
16.0	15.0	3.5	19.0	10.0
22.0	19.0	4.5	24.0	13.0
28.0	22.0	4.5	30.0	16.0

HRN M.B1.136
DIN 965
ISO 7046
UNI 7688

Vijak s upuštenom glavom i križnim utorom PH
Senkschrauben mit Kreuzschlitz
Philips cross recessed flat head machine screws
Viti a testa svasata piana

FE
ZN
A2
A4



	M 3	M 4	M 5	M 6	M 8	M 10
d_k	5.6	7.5	9.2	11	14.5	18
k	1.65	2.2	2.5	3	4	5
b	19	22	25	28	34	40

D L	M 3	M 4	M 5	M 6	M 8	M 10
5	○					
6	○	○				
8	○	○	○	○		
10	○	○	○	○		
12	○	○	○	○	○	
16	○	○	○	○	○	○
20	○	○	○	○	○	○
25	○	○	○	○	○	○
30	○	○	○	○	○	○
35		○	○	○	○	○
40		○	○	○	○	○
45		○	○	○	○	○
50		○	○	○	○	○
55			○	○	○	
60			○	○	○	
70			○	○	○	
80			○	○	○	

HRN M.B1.144

DIN 966

ISO 7047

UNI 7689

Vijak s lećastom glavom i križnim utorom PH

Linsenschrauben mit Kreuzschlitz

Phillips cross recessed oval head machine screws

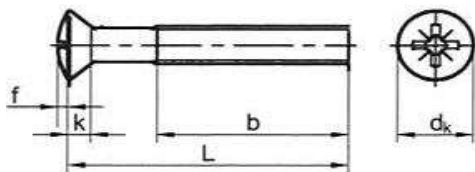
Viti a testa svasata con calotta

FE

ZN

A2

A4



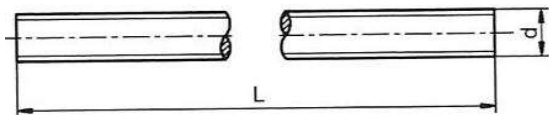
	M 3	M 4	M 5	M 6	M 8
d _k	5.6	7.5	9.2	11	14.5
k	1.65	2.2	2.5	3	4
b	19	22	25	28	34
f	0.75	1	1.25	1.5	2

$\begin{matrix} D \\ L \end{matrix}$	M 3	M 4	M 5	M 6	M 8
5	o				
6	o	o			
8	o	o	o		
10	o	o	o	o	
12	o	o	o	o	
16	o	o	o	o	o
20	o	o	o	o	o
25	o	o	o	o	o
30	o	o	o	o	o
35	o	o	o	o	o
40	o	o	o	o	o
45			o	o	o
50			o	o	o

HRN
DIN 976
ISO
UNI 6610

Navojna šipka
Gewindestangen
Threaded rod
Barra filettate

FE
ZN
A2
A4



4.6

$M \backslash L$	1000	2000	3000
4	○		
5	○		
6	○	○	○
8	○	○	○
10	○	○	○
12	○	○	○
14	○	○	○
16	○	○	○
18	○	○	○
20	○	○	○
22	○	○	○
24	○	○	○
27	○	○	○
30	○		○
33	○		○
36	○		○
39	○		○
42	○		
45	○		
48	○		

8.8

$M \backslash L$	1000
4	○
5	○
6	○
8	○
10	○
12	○
14	○
16	○
18	○
20	○
22	○
24	○
27	○
30	○
33	○
36	○
39	○
42	○
48	○

10.9

$M \backslash L$	1000
8	○
10	○
12	○
16	○
20	○
24	○
27	○
30	○
36	○

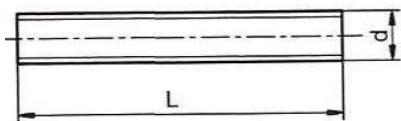
12.9

$M \backslash L$	1000
8	○
10	○
12	○
16	○
20	○
24	○
30	○

HRN
DIN 976
ISO
UNI 6610

Navojnik
Gewindestangen
Threaded rod
Barra filettate

FE
ZN
A2

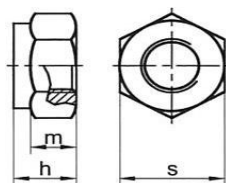


$\begin{matrix} D \\ L \end{matrix}$	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24
40	○									
45	○									
50	○	○								
55	○	○								
60	○	○	○							
70	○	○	○							
80	○	○	○	○						
90	○	○	○	○						
100	○	○	○	○	○	○	○	○		
110	○	○	○	○						
120	○	○	○	○	○	○				
130	○	○	○	○						
140	○	○	○	○	○	○				
150	○	○	○	○			○	○	○	○
160		○	○	○	○	○				
170		○	○	○						
180		○	○	○	○	○				
190		○	○	○						
200		○	○	○	○	○	○	○	○	○
210		○	○	○						
220		○	○	○	○	○				
230		○	○	○						
240		○	○	○	○	○				
250		○	○	○			○	○	○	○
260			○	○	○	○				
270			○	○						
280			○	○	○	○				
290			○	○						
300			○	○	○	○	○	○	○	○
350				○	○	○	○	○	○	○
400				○	○	○	○	○	○	○
450				○	○	○	○	○	○	○
500				○	○	○	○	○	○	○

HRN
DIN 985
ISO 10511
UNI 7474

Sigurnosna matica sa plastikom
Sicherungsmuttern
Prevailing torque hex nuts
Dadi esagonali autofrenanti

ZN
A2
A4



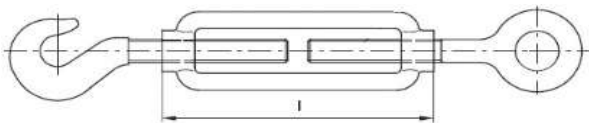
M	ZN
3	O
4	O
5	O
6	O
8	O
10	O
12	O
14	O
16	O
18	O
20	O
22	O
24	O
27	O
30	O

<i>h_{max}</i>	<i>m_{min}</i>	<i>s</i>
4.0	2.4	5.5
5.0	2.9	7.0
5.0	3.2	8.0
6.0	4.0	10.0
8.0	5.5	13.0
10.0	6.5	17.0
12.0	8.0	19.0
14.0	9.5	22.0
16.0	10.5	24.0
18.5	13.0	27.0
20.0	14.0	30.0
22.0	15.0	32.0
24.0	15.0	36.0
27.0	17.0	41.0
30.0	19.0	46.0

HRN
DIN 1480 O/K
ISO
UNI

Natezni vijak, oko-kuka

ZN

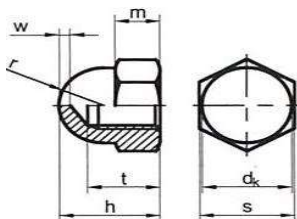


<i>M</i>	<i>ZN</i>	<i>l</i>
6	o	110
8	o	110
10	o	125
12	o	125
14	o	140
16	o	170
20	o	200
24	o	255
30	o	255
36	o	295

HRN M.B1.628
DIN 1587
ISO
UNI 5721

Slijepa matica
Hutmuttern
Hex domed nuts
Hex domed nuts

ZN
A2
A4



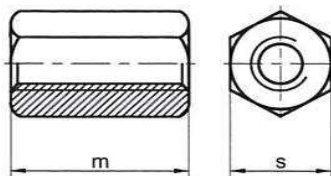
M	ZN
4	○
5	○
6	○
8	○
10	○
12	○
14	○
16	○
20	○

<i>m</i>_{max}	<i>r</i>	<i>s</i>	<i>t</i>_{min}	<i>w</i>_{min}
3.20	3.25	7.00	5.26	2.00
4.00	3.75	8.00	7.21	2.00
5.00	4.75	10.00	7.21	2.00
6.50	6.25	13.00	10.65	2.00
8.00	7.50	17.00	12.65	2.00
10.00	8.50	19.00	15.65	3.00
11.00	10.00	22.00	17.65	4.00
13.00	11.50	24.00	20.58	4.00
16.00	14.00	30.00	25.58	5.00

HRN
DIN 6334
ISO
UNI 5535

Šesterokutna visoka matica
Sechskant - Verlängerungsmuttern
Hex nuts nominal heigh
Dadi esagonali di prolungamento

ZN



<i>M</i>	<i>ZN</i>
6	○
8	○
10	○
12	○
16	○
20	○

<i>m</i>	<i>s</i>
18.00	10.00
24.00	13.00
30.00	17.00
36.00	19.00
48.00	24.00
60.00	30.00

HRN M.B2.150
DIN 6797
ISO
UNI 8841 A

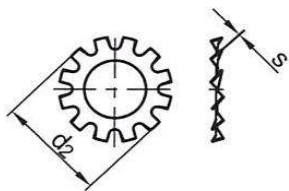
Zupčasta podložna pločica, oblik A

Zahnscheiben

Toothed lock washers

Rosette elastiche piane

ZN



M	ZN
3	O
4	O
5	O
6	O
8	O
10	O
12	O
14	O
16	O
18	O
20	O
22	O
24	O

d₁	d₂	s
3.20	6.00	0.40
4.30	8.00	0.50
5.30	10.00	0.60
6.40	11.00	0.70
8.40	15.00	0.80
10.50	18.00	0.90
13.00	20.50	1.00
15.00	24.00	1.00
17.00	26.00	1.20
19.00	30.00	1.40
21.00	33.00	1.40
23.00	36.00	1.50
25.00	38.00	1.50

HRN M.B2.151
DIN 6798
ISO
UNI 8842 A

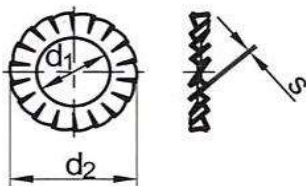
Zupčasta podložna pločica, oblik A

Facherscheiben

Serrated lock washers

Rosette elastiche piane

ZN



M	ZN
4	○
5	○
6	○
8	○
10	○
12	○
14	○
16	○
20	○
24	○

d₁	d₂	s
4.30	8.00	0.50
5.30	10.00	0.60
6.40	11.00	0.70
8.40	15.00	0.80
10.50	18.00	0.90
13.00	20.50	1.00
15.00	24.00	1.00
17.00	26.00	1.20
21.00	33.00	1.40
25.00	38.00	1.50

HRN M.B1.066
DIN 6914
ISO 7412
UNI 5712

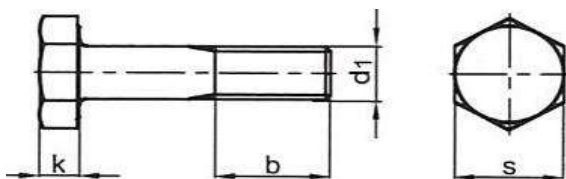
HV - vijak sa šesterobridnom glavom i navojem do pola

HV - schrauben

HV - heavy hex structural bolts

HV - viti a testa esagonale larga

FE
ZN
VZN



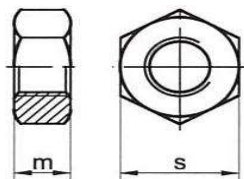
	M 12	M 16	M 20	M 24	M 27	M 30
b	21	26	31	34	37	40
k	8	10	13	15	17	19
s	22	27	32	41	46	50

L \ D	M 12	M 16	M 20	M 24	M 27	M 30
30	○					
35	○	○				
40	○	○	○			
45	○	○	○			
50	○	○	○	○		
55	○	○	○	○		
60	○	○	○	○	○	
65		○	○	○	○	
70		○	○	○	○	○
75		○	○	○	○	○
80		○	○	○	○	○
85		○	○	○	○	○
90		○	○	○	○	○
95		○	○	○	○	○
100		○	○	○	○	○
105			○	○	○	○
110			○	○	○	○
115			○	○	○	○
120			○	○	○	○
125				○	○	○
130				○	○	○

HRN M.B1.629
DIN 6915
ISO 7414
UNI 5713

HV - šesterokutna matica
HV - sechskantmuttern
HV - hexagon nuts
HV - dadi esagonali

FE
ZN
VZN



M	ZN
12	○
16	○
20	○
22	○
24	○
27	○
30	○

m	s
10.00	22.00
13.00	27.00
16.00	32.00
18.00	36.00
20.00	41.00
22.00	46.00
24.00	50.00

HRN M.B1.030
DIN 6916
ISO 7418
UNI 5714

HV - podložna pločica

HV - scheiben

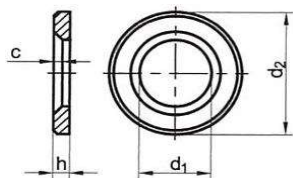
HV - flat washers

HV - rosette

FE

ZN

VZN



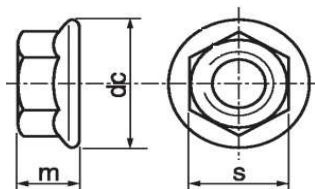
M	ZN
12	O
16	O
20	O
22	O
24	O
27	O
30	O

d₁	d₂	h	c_{min}
13.00	24.00	3.00	1.60
17.00	30.00	4.00	1.60
21.00	37.00	4.00	2.00
23.00	39.00	4.00	2.00
25.00	44.00	4.00	2.00
28.00	50.00	5.00	2.50
31.00	56.00	5.00	2.50

HRN
DIN 6923
ISO 4161
UNI

Šesterokutna matica sa prirubnicom

ZN



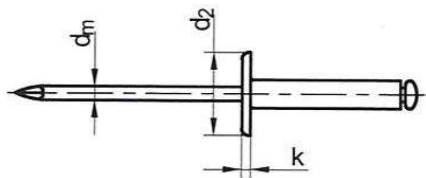
M	ZN
4	○
5	○
6	○
8	○
10	○
12	○

d_c	m	s
10	4.65	7
11.8	5	8
14.2	6	10
17.9	8	13
21.8	10	15
26.00	12	18

HRN
DIN 7337
ISO 15983
UNI 9200

Blok zakovica
Flachrun Blindniete
Open end rivets dome head
Rivetti a strappo a testa bombata

FE
AL
AL / RAL
FE / RAL
CU
A2
A4



FE / FE

	Ø3,2	Ø4,0	Ø4,8
d ₂	6.5	8	9.5
d _m	2	2.45	2.95
k	1	1.2	1.3
SVRDLO	3.3	4.1	4.9

L \ D	Ø3,2	Ø4,0	Ø4,8
6	o	o	
8	o	o	o
10	o	o	o
12	o	o	o
14		o	o
16		o	o
18		o	o
20		o	o

CU

	Ø3,0	Ø3,2	Ø4,0
d ₂	6.5	6.5	8
d _m	2	2	2.45
k	1	1	1.2
SVRDLO	3.1	3.3	4.1

L \ D	Ø3,0	Ø3,2	Ø4,0
4	o		
6	o	o	o
7		o	
8	o	o	o
9		o	o
10	o	o	o
11	o	o	o
12	o		o

A2-INOX

	Ø3,2	Ø4,0
d ₂	6.5	6.5
d _m	2	2
k	1	1
SVRDLO	3.1	3.3

L \ D	Ø3,2	Ø4,0
6	o	
7	o	o
8	o	o
9	o	o
10	o	o
11	o	o
12	o	o

AL / FE

	Ø3,2	Ø4,0	Ø4,8
d ₂	6.5	8	9.5
d _m	2	2.45	2.95
k	1	1.2	1.3
SVRDLO	3.3	4.1	4.9

L \ D	Ø3,2	Ø4,0	Ø4,8
6	o	o	o
8	o	o	o
10	o	o	o
12	o	o	o
14	o	o	o
16	o	o	o
18		o	o
20		o	o

AL / FE - RAL

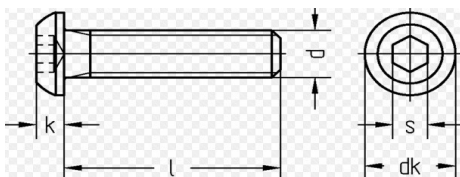
	Ø3,2	Ø4,0
d ₂	6.5	8
d _m	2	2.45
k	1	1.2
SVRDLO	3.3	4.1

L \ D	Ø3,2	Ø4,0
6	o	
8	o	
10	o	o

HRN
DIN
ISO 7380
UNI

Imbus vijak za ravnom lečastom glavom
Linsenkopfschrauben mit innensechskant
Hexagon socket button head screws
Viti a testa bombata con cava esagonale

ZN



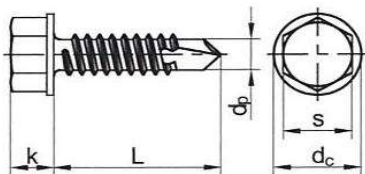
	M 4	M 5	M 6	M 8	M 10	M 12
d_k	7.6	9.5	10.5	14	17.5	21
k	2.2	2.75	3.3	4.4	5.5	6.6
s	2.5	3	4	5	6	8

D L	M 4	M 5	M 6	M 8	M 10	M 12
6	○	○				
8	○	○				
10	○	○	○	○		
12	○	○	○	○		
16	○	○	○	○		
20	○	○	○	○	○	○
25	○	○	○	○	○	○
30		○	○	○	○	○
35		○	○	○	○	○
40		○	○	○	○	○
45				○	○	○
50				○	○	○

HRN
DIN 7504 K
ISO 15480
UNI 8117

Samobušēči vijak sa šesterobridnom glavom
Sechskant Bohrschrauben
Hexagon head self drilling screws
Viti autoperforanti a testa esagonale con bordino

ZN
A2



	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
za lim max.	2.25	2.5	3	4.4	5.25	6
d _p max.	2.8	2.8	3.6	4.1	4.8	5.8
d _c max.	8.3	8.3	8.8	10.5	11	13.5
k _{max.}	3.4	3.4	4.1	4.3	5.4	5.9
s	5.5	5.5	7	8	8	10

$\begin{matrix} D \\ L \end{matrix}$	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
10	o					
13	o	o	o	o		
16	o	o	o	o	o	
19	o	o	o	o	o	o
22	o	o	o	o	o	o
25	o	o	o	o	o	o
32			o	o	o	o
35				o		
38			o	o	o	o
45				o	o	o
50				o	o	o
60					o	o
63					o	o
70					o	o
75					o	o
80						o
90						o
100						o
110						o
120						o
130						o
140						o

HRN
DIN 7504 N
ISO 15481
UNI 8118

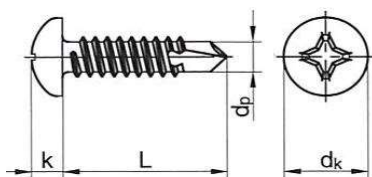
Samobušeci vijak sa cilindričnom PH križnom glavom

ZN

Linsen Bohrschrauben

Philips cross recessed pan head self drilling screws

Viti autoperforanti a testa bombata



	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
za lim max.	2.25	2.5	3	4.4	5.25	6
d _p max.	2.8	2.8	3.6	4.1	4.8	5.8
d _c max.	8.3	8.3	8.8	10.5	11	13.5
k _{max.}	3.4	3.4	4.1	4.3	5.4	5.9
s	5.5	5.5	7	8	8	10

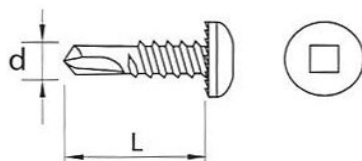
$\frac{D}{L}$	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
13	o	o	o	o		
16	o	o	o	o		
19	o	o	o	o	o	
22	o	o	o	o	o	o
25	o	o	o	o	o	o
32		o	o	o	o	o
38		o	o	o	o	o
45				o	o	o
50				o	o	o

HRN
DIN 7504 NHC
ISO
UNI

Samobušeci vijak sa cilindričnom firkant glavom

ZN

Self drilling screws pan head with serration



	Ø4,2
za lim max.	2.25
d _p	3.5
k	3
f	3

$\begin{matrix} D \\ L \end{matrix}$	Ø4,2
13	o
16	o
19	o
25	o
32	o

HRN
DIN 7504 P
ISO 15482
UNI 8119

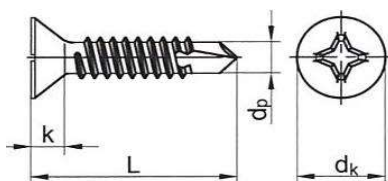
Samobušerči vijak sa cilindričnom upuštenom PH križnom glavom

ZN

Senk Bohrschrauben

Philips cross recessed flat head self drilling screws

Viti autoperforanti a testa svasata piana



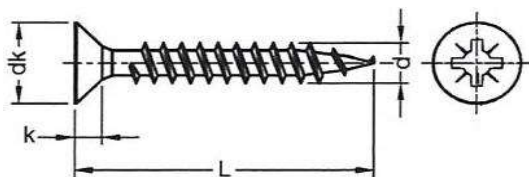
	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
za lim max.	2.25	2.5	3	4.4	5.25	6
d _p max.	2.8	2.8	3.6	4.1	4.8	5.8
d _c max.	6.8	7.8	8.1	9.5	10.8	12.4
k _{max.}	2.1	2.5	2.8	3	3.4	3.8
s	5.5	5.5	7	8	8	10

$\begin{matrix} D \\ L \end{matrix}$	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
13	o	o	o			
16	o	o	o	o		
19	o	o	o	o		
22	o	o	o	o		
25	o	o	o	o	o	o
32		o	o	o	o	o
38		o	o	o	o	o
45			o	o	o	o
50				o	o	o
60						o

HRN
DIN 7505 A
ISO
UNI

Iver vijak sa upuštenom PZ križnom glavom
Senk Spanplattenschrauben
Countersunk chip bord screws
Viti per pannelli di masonite a testa svasata piana

ZN
A2
A4



	Ø3,0	Ø3,5	Ø4,0	Ø4,5	Ø5,0	Ø6,0
d_k	6	7	8	9	10	12
k	1.8	2.1	2.4	2.7	2.9	3.4
PZ	1	2	2	2	3	3

D L	Ø3,0	Ø3,5	Ø4,0	Ø4,5	Ø5,0	Ø6,0
10	o					
12	o	o				
16	o	o	o	o		
20	o	o	o	o	o	
25	o	o	o	o	o	
30	o	o	o	o	o	o
35	o	o	o	o	o	o
40	o	o	o	o	o	o
45	o	o	o	o	o	o
50		o	o	o	o	o
60			o	o	o	o
70			o	o	o	o
80				o	o	o
90					o	o
100					o	o
110					o	o
120					o	o
130						o
140						o
150						o
160						o
180						o
200						o

HRN
DIN 7505 B
ISO
UNI

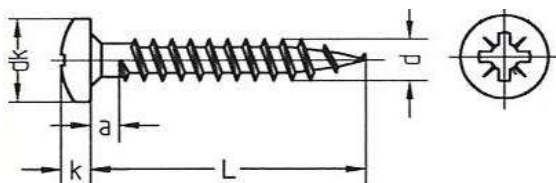
Iver vijak sa cilindričnom PZ križnom glavom

ZN

Pan head Spanplattenschrauben

Pan head chip bord screws with pozdrive

Viti per pannelli di masonite a testa bombata



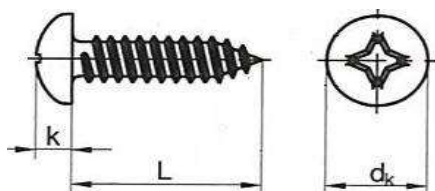
	Ø3,0	Ø3,5	Ø4,0	Ø4,5	Ø5,0	Ø6,0
d_k	6	7	8	9	10	12
k	2.4	2.5	2.9	3.2	3.5	4.1
PZ	1	2	2	2	2	3

D L	Ø3,0	Ø3,5	Ø4,0	Ø4,5	Ø5,0	Ø6,0
12	o					
16	o	o	o	o	o	
20	o	o	o	o	o	o
25	o	o	o	o	o	o
30	o	o	o	o	o	o
35		o	o	o	o	o
40		o	o	o	o	o
45			o	o	o	o
50			o	o	o	o
60			o	o	o	o
70					o	o
80					o	o
90					o	o
100						o

HRN M.B1.466
DIN 7981
ISO 7049
UNI 6954

Vijak za lim sa cilindričnom PH križnom glavom
Linsen Blechschrauben
Philips cross recessed pan head tapping screws
Viti autofilettanti a testa bombata

ZN
A2
A4



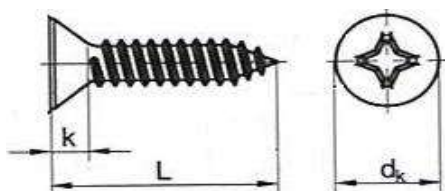
	Ø2,9	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
d_k	5.6	6.9	7.5	8.2	9.5	10.8	12.5
k_{max.}	2.4	2.6	2.8	3.1	3.7	4	4.6
PH	1	2	2	2	2	3	3

D L	Ø2,9	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
6.5	o	o	o				
9.5	o	o	o	o	o		
13	o	o	o	o	o	o	o
16	o	o	o	o	o	o	o
19	o	o	o	o	o	o	o
22	o	o	o	o	o	o	o
25	o	o	o	o	o	o	o
32	o	o	o	o	o	o	o
38		o	o	o	o	o	o
45		o	o	o	o	o	o
50				o	o	o	o
60				o	o	o	o
70				o	o	o	o
80					o	o	o
90							o

HRN M.B1.465
DIN 7982
ISO 7050
UNI 6955

Vijak za lim sa upuštenom PH križnom glavom
Senk Blechsrauben
Phillips cross recessed flat head tapping screws
Viti autofilettanti a testa svasata piana

ZN
A2
A4



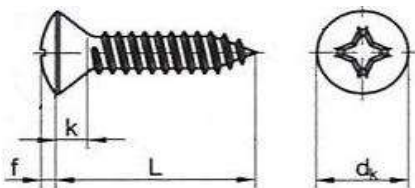
	Ø2,9	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
dk	5.5	6.8	7.5	8.2	9.5	10.8	12.4
k max.	1.7	2.1	2.3	2.6	2.8	3	3.15
PH	1	2	2	2	2	3	3

D L	Ø2,9	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
6.5	o	o	o				
9.5	o	o	o	o	o		
13	o	o	o	o	o	o	
16	o	o	o	o	o	o	o
19	o	o	o	o	o	o	o
22	o	o	o	o	o	o	o
25	o	o	o	o	o	o	o
32	o	o	o	o	o	o	o
38		o	o	o	o	o	o
45				o	o	o	o
50				o	o	o	o
60				o	o	o	o
70				o	o	o	o
80					o	o	o

HRN M.B1.467
DIN 7983
ISO 7051
UNI 6956

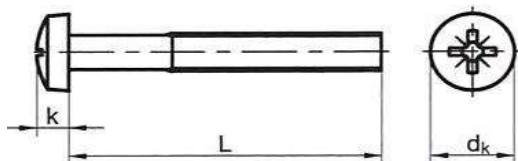
Vijak za lim sa upuštenom lečastom PH križnom glavom
Senk Blechschrauben
Phillips cross recessed flat head tapping screws
Viti autofilettanti a testa svasata piana

ZN
A2
A4



	Ø2,9	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
d_k	5.5	6.8	7.5	8.2	9.5	10.8	12.4
k_{max.}	1.7	2.1	2.3	2.6	2.8	3	3.15
f	3.2	4.3	4.2	4.6	5.1	6.5	6.8
PH	1	2	2	2	2	3	3

D L	Ø2,9	Ø3,5	Ø3,9	Ø4,2	Ø4,8	Ø5,5	Ø6,3
9.5	o	o	o	o	o		
13	o	o	o	o	o	o	
16	o	o	o	o	o	o	o
19	o	o	o	o	o	o	o
22	o	o	o	o	o	o	o
25	o	o	o	o	o	o	o
32		o	o	o	o	o	o
38			o	o	o	o	o
45				o	o	o	o
50				o	o	o	o

HRN M.B1.118**DIN 7985****ISO 14583****UNI 7687***Vijak sa cilindričnom PH križnom glavom**Linsenschrauben mit Kreuzschlitz**Philips cross recessed pan head machine screws**Viti a testa cilindrica con calotta***ZN****A2**

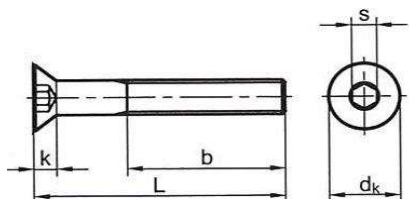
	M 3	M 4	M 5	M 6
d_k	6	8	10	12
k	2.4	3.1	3.8	4.6
PH	1	2	2	3

$\begin{matrix} D \\ L \end{matrix}$	M 3	M 4	M 5	M 6
4	○			
5	○	○		
6	○	○	○	
8	○	○	○	○
10	○	○	○	○
12	○	○	○	○
14	○	○	○	○
16	○	○	○	○
18	○	○	○	○
20	○	○	○	○
25	○	○	○	○
30	○	○	○	○
35		○	○	○
40		○	○	○
45			○	○
50			○	○
55			○	○
60			○	○
65			○	○
70			○	○

HRN M.B1.126
DIN 7991
ISO 10642
UNI 5933

Imbus vijak sa upuštenom glavom
Senkschrauben
Socket flat head screws
Viti a testa svasata piana

FE
ZN
A2



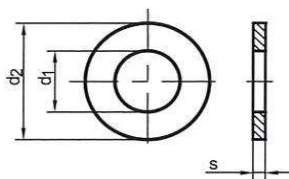
	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
d_k	6.72	8.96	10.2	13.44	17.92	22.4	26.8	30.88	33.6	40.32	39
k_{max.}	1.86	2.48	3.1	3.72	4.96	6.2	7.44	8.4	8.8	10.16	14
s	2	2.5	3	4	5	6	8	10	10	12	14
b	18	20	22	24	28	32	36	40	44	52	60

D L	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24
6	o	o	o								
8	o	o	o	o							
10	o	o	o	o	o						
12	o	o	o	o	o						
16	o	o	o	o	o	o					
18	o	o	o	o	o	o					
20	o	o	o	o	o	o	o				
25	o	o	o	o	o	o	o		o		
30	o	o	o	o	o	o	o	o	o		
35				o	o	o	o	o	o	o	
40				o	o	o	o	o	o	o	o
45				o	o	o	o	o	o	o	o
50				o	o	o	o	o	o	o	o
55					o	o	o	o	o	o	o
60					o	o	o	o	o	o	o
70					o	o	o	o	o	o	o
80					o	o	o	o	o	o	o
90						o	o	o	o	o	o
100						o	o	o	o	o	o

HRN M.B2.014
DIN 9021
ISO 7093
UNI 6593

Široka podložna pločica
Scheiben
Flat washers
Rosette

ZN
A2
A4



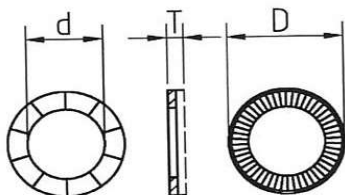
<i>M</i>	<i>ZN</i>
3	○
4	○
5	○
6	○
8	○
10	○
12	○
14	○
16	○
18	○
20	○
24	○

<i>d₁</i>	<i>d₂</i>	<i>s</i>
3.2	9.0	0.8
4.3	12.0	1.0
5.3	15.0	1.2
6.4	18.0	1.6
8.4	24.0	2.0
10.5	30.0	2.5
13.0	37.0	3.0
15.0	44.0	3.0
17.0	50.0	3.0
19.0	56.0	4.0
21.0	60.0	4.0
26.0	72.0	5.0

HRN
DIN 25201
ISO
UNI

Samoosiguravajuća podloška NORD-LOCK

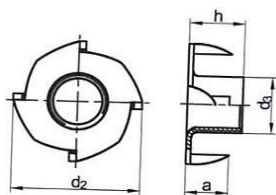
ZN



<i>M</i>	<i>ZN</i>
5	○
6	○
8	○
10	○
12	○
14	○
16	○
18	○
20	○
22	○
24	○
27	○
30	○
33	○
36	○

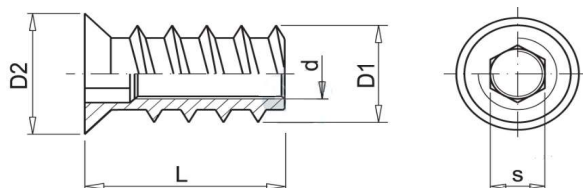
<i>d</i>	<i>D</i>	<i>T</i>
5.4	9.0	1.8
6.5	10.8	1.8
8.7	13.5	2.5
10.7	16.6	2.5
13.0	19.5	2.5
15.2	23.0	3.4
17.0	25.4	3.4
19.5	29.0	3.4
21.4	30.7	3.4
23.4	34.5	3.4
25.3	39.0	3.4
28.4	42.0	6.6
31.4	47.0	6.6
34.4	48.5	6.6
37.4	55.0	6.6



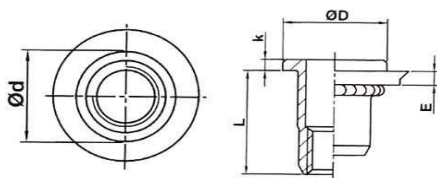


<i>M</i>	<i>ZN</i>
4	○
5	○
6	○
8	○
10	○

<i>h</i>	<i>d₂</i>	<i>d₃</i>
6	15.0	5.0
8	17.0	6.5
9/12	19.0	7.5
11/15	22.0	10.0
13	25.0	11.5



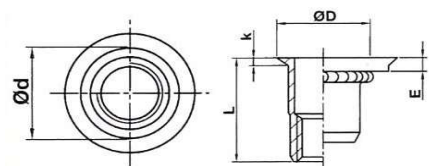
M	ZN
4	o
5	o
6	o
8	o
10	o

DTS 103 C - ZAKIVNA MATICA CILINDRIČNA GLAVA

M	ZN
4	○
5	○
6	○
8	○

L	E	D
11.0	0,3 - 2,5	9.0
13 (15,5)	0,5 - 3	10.0
15.0	0,5 - 3	12.0
17.0	0,5 - 3	14.0

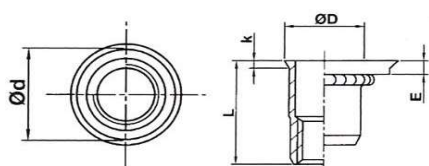
SVRDLO
6.1
7.1
9.1
11.1

DTS 103 U - ZAKIVNA MATICA UPUŠTENA GLAVA

M	ZN
4	○
5	○
6	○
8	○

L	E	D
11.0	1.5	10.0
15.0	1.5	11.0
17.0	1.5	13.0
17.0	1.5	16.0

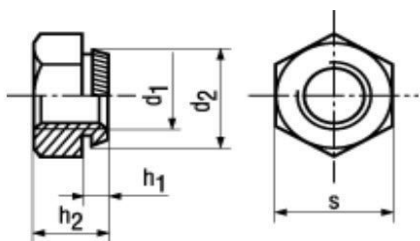
SVRDLO
6.1
7.1
9.1
11.1

DTS 103 MU - ZAKIVNA MATICA UPUŠTENA MALA GLAVA

M	ZN
4	○
5	○
6	○
8	○

L	E	D
12.0	0.6	6.9
14.0	0.6	7.9
17.0	0.6	9.9
18.0	0.6	12.0

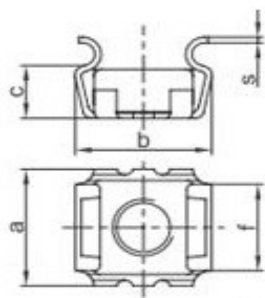
SVRDLO
6.1
7.1
9.1
11.1



M	ZN
8	○
10	○
12	○

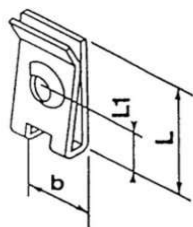
d ₂	h ₁	h ₂	s
10.35	1.8	6.5	13
12.85	1.8	8.0	15
14.85	2.8	10.0	17

SVRDLO
10.0
12.5
14.5



<i>M</i>	<i>ZN</i>
4	0
5	0
6	0
8	0
10	0

<i>c</i>	<i>s</i>	<i>a</i>	<i>f</i>
4.6	0.5	13.1	8.7
6.4	0.5	13.4	8.8
6.4	0.5	13.4	8.8
7.4	0.5	16.6	11.4
7.4	0.5	16.6	11.4



$\varnothing$	FE
2.9	o
3.5	o
3.9	o
4.2	o
4.8	o
5.5	o
6.3	o

b	L	L_1
15.8	18.0	11.5
15.8	18.0	11.5
15.8	18.0	11.5
15.8	18.0	11.5
15.8	18.0	11.5
15.8	18.0	11.5
15.8	18.0	11.5

DTS 107

Hangar vijak metal / drvo

Stockschrauben

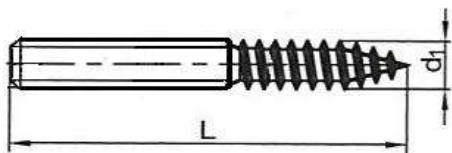
Hanger bolts

Vitti di giunzione

ZN

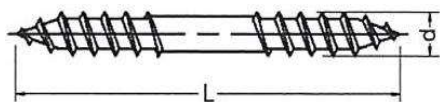
A2

A4



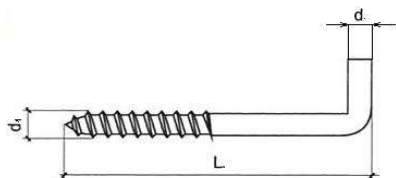
	M 6	M 8	M 10
d ₁	6.5	8.5	10

L \ D	M 6	M 8	M 10
40	○	○	
50	○	○	
60	○	○	○
70	○	○	
80	○	○	○
90	○	○	
100	○	○	○
110		○	○
120	○	○	○
130		○	○
140		○	○
150		○	○
160		○	○
180		○	○
200		○	○



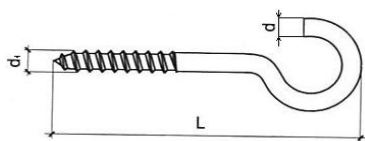
	Ø6	Ø8
d	6.5	8.5

$\begin{matrix} D \\ L \end{matrix}$	Ø6	Ø8
60	o	o
70	o	o
80	o	o
90		o
100		o



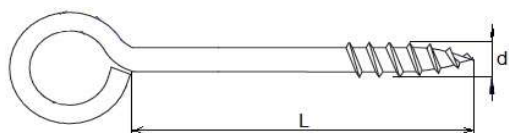
	Ø3	Ø4	Ø6	Ø8	Ø10
d	2.4	3.4	4.6	7.0	8.9
d ₁	3.2	4.3	6.0	8.3	9.8

$\begin{matrix} D \\ L \end{matrix}$	Ø3	Ø4	Ø6	Ø8	Ø10
25	o				
30		o			
40		o			
50		o			
60		o	o		
70			o		
80			o	o	o
90			o	o	o
100				o	o

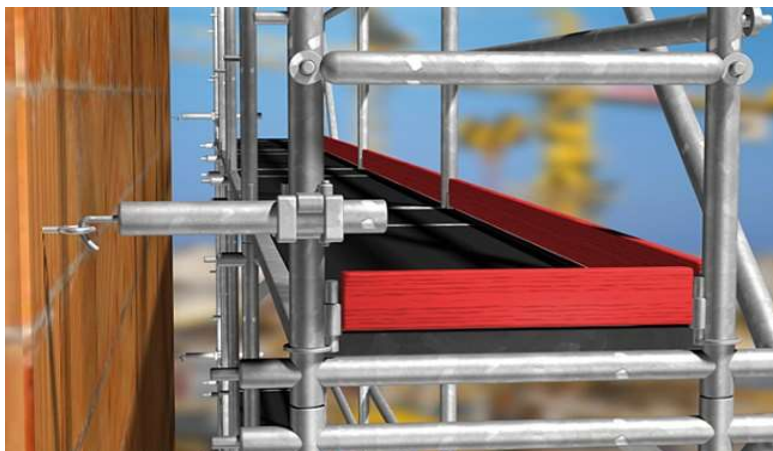


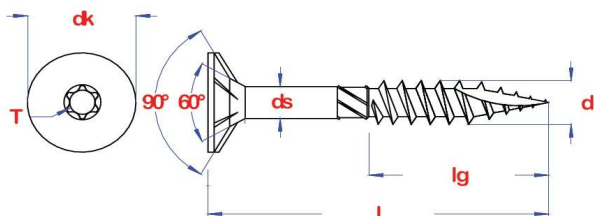
	Ø4	Ø6
d	3.2	4.6
d₁	4.3	6.0

$\begin{matrix} D \\ L \end{matrix}$	Ø4	Ø6
40	o	
50	o	
60	o	o
70	o	o
80		o
90		o
100		o
120		o

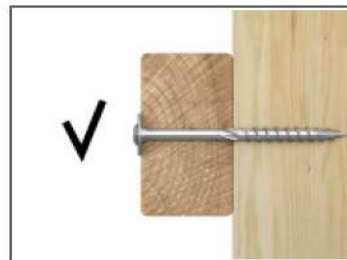
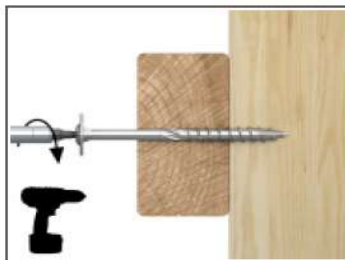


$\begin{matrix} D \\ L \end{matrix}$	$\begin{matrix} D \\ \text{Ø} 12 \end{matrix}$
160	Ø
190	Ø
230	Ø
300	Ø



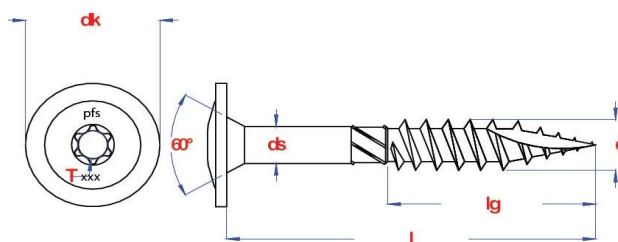


	Ø5	Ø6	Ø8	Ø10
d_k	10.0	12.0	14.0	18.0
d_s	3.60	4.45	5.90	7.15
l_g	32 - 60	70	80	80
T	T25	T30	T40	T40

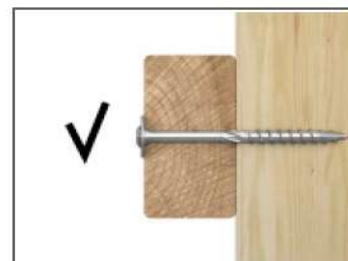


$\frac{D}{L}$	Ø5	Ø6	Ø8	Ø10
50	o			
60	o	o		
70	o	o		
80	o	o	o	
90	o	o	o	
100	o	o	o	o
120	o	o	o	o
140	o	o	o	o
160		o	o	o
180		o	o	o
200		o	o	o
220		o	o	o
240		o	o	o
260		o	o	o
280		o	o	o
300		o	o	o
320			o	o
340			o	o
360			o	o
380			o	o
400			o	o



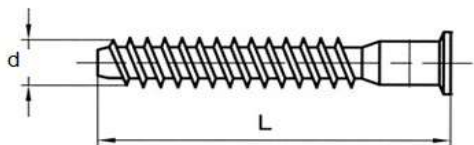


	Ø6	Ø8	Ø10
d_k	12.0	14.0	18.0
d_s	4.45	5.90	7.15
l_g	70	80	80
T	T30	T40	T40

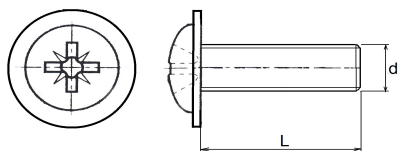


$\frac{D}{L}$	Ø6	Ø8	Ø10
60	o	o	
70	o		
80	o	o	
90	o	o	
100	o	o	o
120	o	o	o
140	o	o	o
160	o	o	o
180	o	o	o
200	o	o	o
220	o	o	o
240	o	o	o
260	o	o	o
280	o	o	o
300	o	o	o
320		o	o
340		o	o
360		o	o
380		o	o
400		o	o

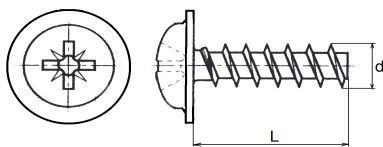




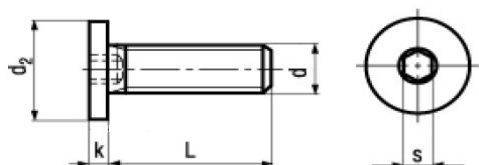
$\begin{matrix} D \\ L \end{matrix}$	$\begin{matrix} D \\ \text{Ø7} \end{matrix}$
50	Ø
70	Ø



$L \backslash D$	M 4	M 6
10	○	
12	○	
14	○	
16	○	
18	○	
20	○	
22	○	
25	○	
28	○	
30	○	○
32	○	
35	○	
38	○	
40	○	○
42	○	
45	○	



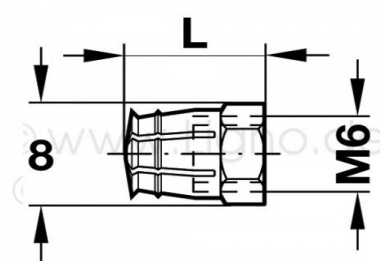
$L \backslash D$	$\varnothing 4$
14	o
23	o
25	o
40	o



$L \backslash D$	M 6
30	o
40	o
45	o
50	o
60	o
70	o
80	o
90	o
50	o
100	o

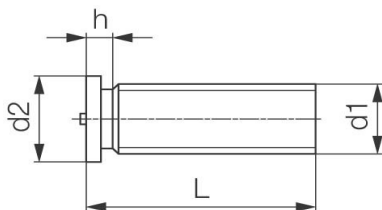
d_2	k	s
16.5	2.3	4

- primjena kod topalit, werzalit, iveral i mdf ploča



$\begin{matrix} D \\ L \end{matrix}$	M 6
9	o
12	o

SVRDLO
8.0
8.0



	M 4	M 5	M 6	M 8
d ₂	5.6	6.5	7.4	8.9
h	1.80	2.00	2.10	2.20

$\begin{matrix} D \\ L \end{matrix}$	M 4	M 5	M 6	M 8
8	○			
10	○	○		
12	○	○	○	
16	○	○	○	○
20	○	○	○	○
25		○	○	○
30		○	○	○
35			○	○
40			○	○
45			○	○

BLISTER PROGRAM ZA MALOPRODAJE



Legenda etikete blistera:

1. Naziv proizvoda, standard, dimenzija, materijal
2. Oznaka cijene - zamjenjuje naknadno označavanje cijene blistera
3. Količina u blisteru
4. EAN13 - bar code
5. Deklaracija