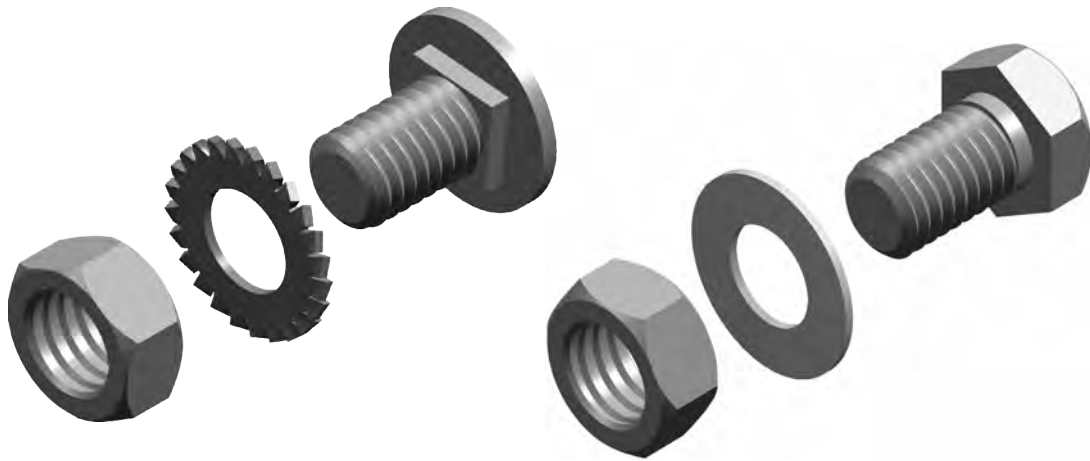









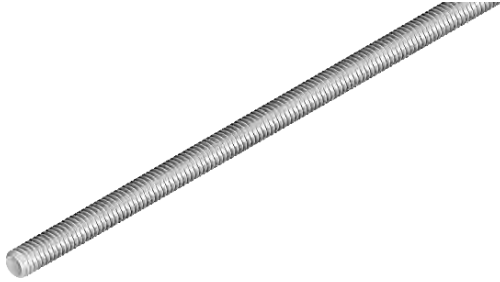
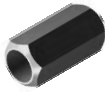























Systems of Mounting and Suspending Cable Runs



Examples of Accessories from the Section of Mounting and Supporting Accessories

 Threaded Rod PG...	 Victor Chain LNS...	 Wire Rope LS...	 Turnbuckle Eye-and-Eye K00...	 Wall Plug KKG5
 Wall Plug KR...	 Anchor Bolt SHR...	 Anchor Bolt PSR...	 Screw Set SR...	 Wall Plug MKR...

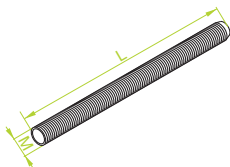


<p>Threaded Rod</p> 		<p>Products adapted for installing in combination with threaded rod</p>	
	<p>Rod Connector NL Rod Reducer RN Page X-3</p>		<p>Drop-In Anchor TRS, TRM Page X-3</p>
	<p>Rod Grip UPW/UPWO, UPWK/UPWKO Page XI-13</p>		<p>Side Holder WC Page XI-14</p>
	<p>Bracket WSS Page XI-14</p>		<p>Central Hanger WKW Page XII-4</p>
	<p>Cable Hanger OZ/OZO, OZS/OZSO, OZM/OZMO Page XII-5</p>		<p>Ceiling Hanger WSO Page XII-2</p>
 	<p>Rod Grip USV/USOV Page XII-20</p>		<p>Rod Grip US, USW Page XII-20. XII-21</p>
 	<p>Rod Hanger WPV Page XII-21</p>		<p>Rod Hanger WP Page XII-21</p>
 	<p>Articulated Rod Hanger WPPGV/WPPOV Page XII-22</p>		<p>Rod Hanger WZ Page XII-31</p>
	<p>Central Hanger WWK Page XII-4</p>		<p>Beam Clamp ZDT Page XII-25</p>  <p>Beam Clamp ZK Page XII-25</p>
 	<p>Beam Clamp ZCV Page XII-27</p>		<p>Articulated Rod Hanger WPPG Page XII-22</p>
	<p>Trapezoidal Ceiling Bracket WT Page XII-30</p>		<p>Beam Clamp ZC Page XII-26</p>



Threaded Rod

PG



PGC...

CODE	Thread M mm	Length L mm	Breaking Force [kN]	kg 1 pc	Catalogue No.	Qty
PGCM6/1	6	1000	8.44	0.12	652901	50
PGCM6/2	6	2000	8.44	0.23	652301	50
PGCM8/1	8	1000	15.40	0.48	652401	50
PGCM8/2	8	2000	15.40	0.96	652501	25
PGCM8/3	8	3000	15.40	1.44	652701	10
PGCM10/1	10	1000	12.20	0.49	653001	25
PGCM10/2	10	2000	24.40	1.00	652601	25
PGCM10/3	10	3000	24.40	1.50	652801	10
PGCM12/1	12	1000	12.20	0.72	653101	10
PGCM12/2	12	2000	24.40	1.44	653201	10

STEEL GRADE 4.8

PG...

CODE	Thread M mm	Length L mm	Breaking Force [kN]	kg 1 pc	Catalogue No.	Qty
PGM6/1	6	1000	10.40	0.16	650301	100
PGM6/2	6	2000	10.40	0.23	650401	50
PGM6/3	6	3000	10.40	0.48	651401	50
PGM8/01	8	100	19.00	0.03	650501	100
PGM8/02	8	200	19.00	0.06	650601	100
PGM8/03	8	300	19.00	0.09	650701	50
PGM8/1	8	1000	19.00	0.32	650801	50
PGM8/2	8	2000	19.00	0.64	650901	25
PGM8/3	8	3000	19.00	0.96	651501	25
PGM10/1	10	1000	30.20	0.49	651001	25
PGM10/2	10	2000	30.20	1.00	651101	25
PGM10/3	10	3000	30.20	1.50	651601	25
PGM12/1	12	1000	43.80	0.72	651201	25
PGM12/2	12	2000	43.80	1.44	651301	20
PGM12/3	12	3000	43.80	2.16	651701	10

STEEL GRADE 5.8

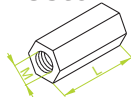


APPLICATIONS

Suspending cable runs.

Rod Connector

NL



NL...

CODE	Thread M mm	Length L mm	Catalogue No.	Qty
NLM6	6	18	650103	100
NLM8	8	24	650203	100
NLM10	10	30	650303	100
NLM12	12	36	650403	100

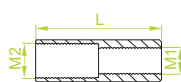


APPLICATIONS

Suspending cable runs

Rod Reducer

RN



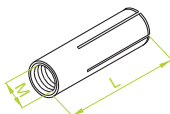
RN...

CODE	Thread M1 mm	Thread M2 mm	Length L mm	Catalogue No.	Qty
RNM6/8	6	8	18	650105	100
RNM8/10	8	10	24	650205	100
RNM10/12	10	12	30	650305	100



Drop-In Anchor

TRS

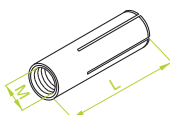


TRS...

CODE	Thread M mm	Length L mm	Catalogue No.	Qty
TRSM6	6	30	650107	100
TRSM8	8	30	650207	100
TRSM10	10	40	650307	50
TRSM12	12	50	650407	50



TRSO



TRSO...

CODE	Thread M mm	Length L mm	Catalogue No.	Qty
TRSO M6	6	30	804600	100
TRSO M8	8	30	804700	100
TRSO M10	10	40	804800	50
TRSO M12	12	50	804900	50



APPLICATIONS

Suspending cable runs.

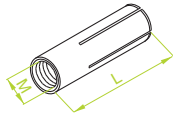
MATERIAL

Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)
or 1.4401 (A4)



Drop-In Anchor Brass

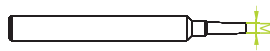
TRM



APPLICATIONS
Suspending cable runs.

Setting Tool for Drop-In Anchors

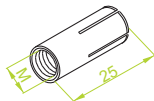
OTR



APPLICATIONS
Montaż tulei rozporowych.

Drop-In Anchor

TRSK

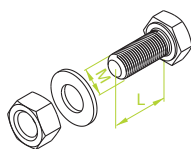


Setting Tool

NDS

Screw Set

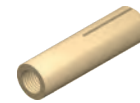
SM



APPLICATIONS
Suspending cable runs

TRM...

CODE	Thread M mm	Length L mm	Catalogue No.	Qty
TRMM6	6	30	650109	100
TRMM8	8	30	650209	100
TRMM10	10	40	650309	50
TRMM12	12	50	650409	50

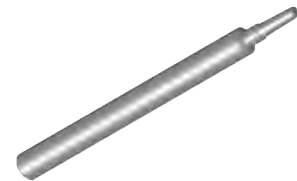


MATERIAL
Brass

OTR...

CODE	Thread M mm	Catalogue No.	Qty
OTRM6	4.8	650108	1
OTRM8	6.6	650208	1
OTRM10	7.8	650308	1
OTRM12	9.8	650408	1

Important! When ordering drop-ins please specify the setting tool option: manual or mechanical SDS (for hammer action drilling).



MATERIAL
Steel

TRSK...

CODE	Thread M mm	Catalogue No.	Qty
TRSKM6	6	804602	100
TRSKM8	8	804702	100
TRSKM10	10	804802	50
TRSKM12	12	804902	50



MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)

NDS...

CODE	Thread Drop-in Anchor M mm	Catalogue No.	Qty
NDS6	6	804603	1
NDS8	8	804703	1
NDS10	10	804803	1
NDS12	12	804903	1

2-piece set, consisting of a 25mm long drill and the tool itself. Used for drilling a hole with the drill at a strictly defined depth for TRSK... sleeve. After disassembling the drill, the sleeve is then set using the tool.



SM...

CODE	Thread M mm	Length L mm	Catalogue No.	Qty
SMM6x16	6	16	652043	100
SMM8x16	8	16	652643	100
SMM8x30	8	30	650543	100
SMM10x20	10	20	650743	100
SMM10x30	10	30	650843	100
SMM10x40	10	40	651243	100
SMM10x60	10	60	650943	100
SMM10x70	10	70	651007	100
SMM10x80	10	80	651043	100
SMM10x100	10	100	651011	100
SMM10x120	10	120	651443	100
SMM12x30	12	30	651143	100

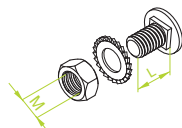


MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)
or 1.4401 (A4)



Screw Set

SG



SG...

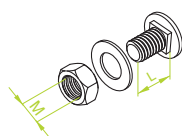
CODE	Thread M mm	Length L mm	Catalogue No.	Qty
SGM6x10	6	10	650141	100
SGM6x12	6	12	650641	100
SGM6x25	6	25	650241	100
SGM8x12	8	12	650341	100
SGM8x14	8	14	650441	100
SGM8x16	8	16	655641	100
SGM10x20	10	20	650841	100
SGM10x30	10	30	650741	100
SGM12x30	12	30	650541	100



mechanical properties class 8.8

Screw Set

SGN/SGF



SGN...

CODE	Thread M mm	Length L mm	Catalogue No.	Qty
SGNM6x12	6	12	650442	100
SGNM8x14	8	14	650142	100
SGNM8x20	8	20	650342	100
SGNM10x20	10	20	650642	100
SGNM12x30	12	30	650242	100

SGF...

CODE	Thread M mm	Length L mm	Catalogue No.	Qty
SGFM6x12	6	12	650166	100
SGFM8x14	8	14	650266	100

NEW! Steel, Zinc-flake coating



mechanical properties class 8.8

MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)
or 1.4401 (A4)



APPLICATIONS
Suspending cable runs

MATERIAL SGF
Steel, Zinc-flake coating
PN-EN ISO 10683:2014-09

Washer

PP



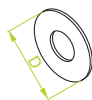
PP...

CODE	Dia. D	for Bolt	Catalogue No.	Qty
PP6	12	M6	650744	100
PP8	16	M8	650444	100
PP10	20	M10	650544	100
PP12	24	M12	650644	100



Washer

PW



PW...

CODE	Dia. D	for Bolt	Catalogue No.	Qty
PW6	18	M6	650844	100
PW8	24	M8	650944	100
PW10	30	M10	651044	100
PW12	37	M12	651144	100



Nut

NS



NS...

CODE	Thread M mm	Catalogue No.	Qty
NSM6	6	650044	100
NSM8	8	650144	100
NSM10	10	650244	100
NSM12	12	650344	100



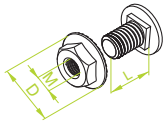
APPLICATIONS
Suspending cable runs

MATERIAL
Electro-galv. steel (EG).
Available upon request:
F - Hot-dip galvanised steel (HDG)
E- Stainless steel, grade 1.4301 (A2)
or 1.4401 (A4)



Screw Set

SGK/SGKF



SGK...

CODE	Thread M mm	Length L mm	Dia. D mm	Catalogue No.	Qty
SGKM6x10	6	10	13	651041	100
SGKM6x12	6	12	13	651141	100
SGKM6x14	6	14	13	655041	100
SGKM8x14	8	14	17	651241	100
SGKM8x16	8	16	17	654041	100
SGKM10x20	10	20	20,5	651341	100
SGKM12x30	12	30	26	651230	100

SGKF...

CODE	Thread M mm	Length L mm	Dia. D mm	Catalogue No.	Qty
SGKFM6x12	6	12	13	651441	100
SGKFM8x14	8	14	17	651541	100
SGKFM8x16	8	16	17	651542	100
SGKFM10x20	10	20	20,5	651641	100
SGKFM12x30	12	30	26	651330	100

NEW! Steel, Zinc-flake coating



mechanical properties class 8.8

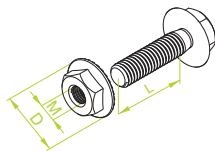


MATERIAL
Electro-galv. steel (EG).



Screw Set

SKK



SKK...

CODE	Thread M mm	Length L mm	Dia. D mm	Catalogue No.	Qty
SKKM6x10	6	10	14.2	650152	100
SKKM6x25	6	25	14.2	650252	100
SGKM8x12	8	12	17.9	650352	100
SGKM8x14	8	14	17.9	650452	100
SGKM10x30	10	30	21.8	650552	100
SGKM12x30	12	30	21.8	650652	100



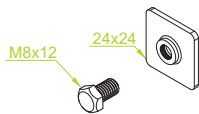
MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)
or 1.4401 (A4)

APPLICATIONS

Suspending cable runs

Screw Set

SNKM8x12



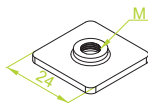
SNKM8x12

CODE	Thread M mm	Catalogue No.	Qty
SNKM8x12	8	650145	100



Square Nut

NK



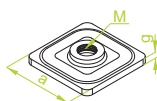
NK...

CODE	Thread M mm	Catalogue No.	Qty
NKM6	6	650147	100
NKM8	8	650247	100



Square Nut

NW



NW...

CODE	Thread M mm	Dim. a mm	Dim. g mm	Catalogue No.	Qty
NWM6	6	35	2	650149	100
NWM8	8	35	2	650249	100
NW50M8	8	43	3	650449	100
NWØ11	---	35	2	650349	100
NW50Ø11	---	43	3	650549	100

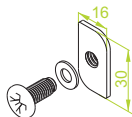


MATERIAL
Electro-galv. steel (EG).
Available upon request:
F - Hot-dip galvanised steel (HDG)



Screw Set

SRM6x16



APPLICATIONS

Fixing barrier stripto rungs of cable ladders

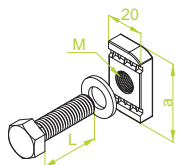
SRM6x16

CODE	Thread M mm	Catalogue No.	Qty
SRM6x16	6	650751	100



Screw Set

SRM...



APPLICATIONS

Joining steel profiles with the use of support channels and barrier strips system of couplers

SR...

CODE	Dim. a mm	Length L mm	Thread M mm	Catalogue No.	Qty
SRM6x25	35	25	6	652506	100
SRM8x25	35	25	8	650451	100
SRM10x20	35	20	10	650675	100
SRM10x25	35	25	10	650654	100
SRM10x30	35	30	10	650651	100
SRM12x30	35	30	10	653510	100

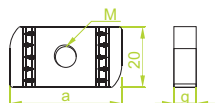


MATERIAL

Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)
or 1.4401 (A4)

Channel Nut

NR



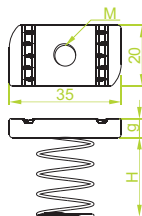
NR...

CODE	Thread M mm	Dim. a mm	Dim. g mm	Catalogue No.	Qty
NRM6	6	35	6	650751	100
NRM8	8	35	6	650151	100
NRGM8	8	35	9	650809	100
NRM10	10	35	8	650251	100
NRGM10	10	35	9	651009	100
NRM12	13	35	9	650175	100



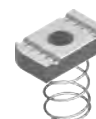
Channel Nut

NRS



NRS...

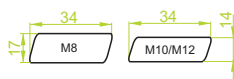
CODE	Thread M mm	Dim. g mm	Dim. H mm	Catalogue No.	Qty
NRSM6/13	6	6	13	650275	100
NRSM6/33	6	6	33	650375	100
NRSM8/13	8	6	13	650350	100
NRSM8/33	8	6	33	650351	100
NRSM10/13	10	8	13	650360	100
NRSM10/33	10	8	33	650361	100
NRSM12/13	12	8	13	650475	100
NRSM12/33	12	8	33	650575	100



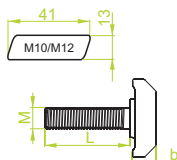
Channel Nuts NRS M8/13 and M10/13 will suit the following support channels: CWD40H22. CWP40H22. CWC40H22. CMD40H22. CMP40H22. CMC40H22. Channel Nuts NRS M8/33 and M10/33 will suit the following support channels: CWD40H35. CWP40H35. CWC40H35. CWD40H40. CWP/CWOP40H40. CWC40H40. CMD40H40. CMP40H40. CMC40H40. Applying channel nuts makes the installation easier and provides additional pressure.

Hammer Head Bolt

SMH...



SMHP...



APPLICATIONS

Joining steel profiles with the use of support channels and barrier strips system of couplers

SMH...

CODE	Thread M mm	Length L mm	Dim. b mm	Catalogue No.	Qty
SMHM8x25	8	25	10	650372	100
SMHM10x30	10	30	11	650373	100
SMHM12x30	12	30	11	650374	100



SMHP...

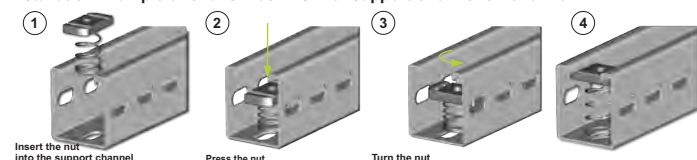
CODE	Thread M mm	Length L mm	Dim. b mm	Catalogue No.	Qty
SMHPM10x30	10	30	12	650376	100
SMHPM12x30	12	30	12	650377	100



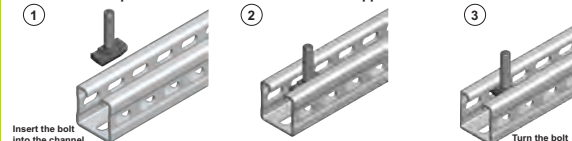
MATERIAL

Electro-galv. steel (EG).
Available upon request:
F - Hot-dip galvanised steel (HDG)
E- Stainless steel, grade 1.4401 (A4)

Installation Example of Channel Nut NRS with support Channel CMC40H40

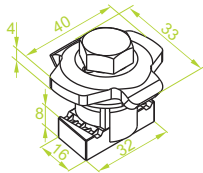


Installation Example of Hammer Head Bolt SMH with support Channel CTMC40H40





Fast Assembly Channel Nut - Rhomboid NSP



Applications:
Fast assembly of 41mm x 41mm channels constructions by installing through.

NSP

CODE



1 pc

Catalogue No.

650810



100

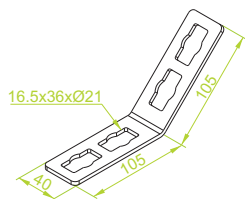
Features&Benefits:

- Flexible mechanism allowing a comfortable adjustment of the mounted element by pushing-in and moving.
- Blocked channel nut makes up for a steady and secure connection that correlates with improved safety.
- Fast assembly allowing to save up time and effort; both during the assembly and disassembly procedure.



MATERIAL
Electro-galv. steel (EG) and polipropilen.

45° Channel Connector LCSP1



LCSP1

CODE



1 pc

± 4.0 mm

Catalogue No.

650811



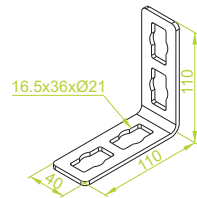
20

Features&Benefits:

- Speeds up assembling constructions using 41mm x 41mm profiles using the Fast Assembly Channel Nut NSP



90° Channel Connector LCSP2



LCSP2

CODE



1 pc

± 4.0 mm

Catalogue No.

650812



20

Features&Benefits:

- Speeds up assembling constructions using 41mm x 41mm profiles using the Fast Assembly Channel Nut NSP



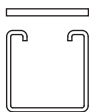
APPLICATIONS

Used for connecting constructions based on 41mm x 41mm channels using the Fast Assembly Channel Nut NSP.

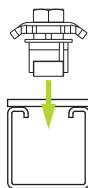
MATERIAL
Steel, hot-dip galv. to PN-EN ISO 1461:2011 (HDG)
Available to order:
E- stainless steel (SS), grade 1.4301 (AISI304)
L- powder coating in a full range of colours (PC) (info p. 4)

Instruction for mounting the Fast Assembly Channel Nut NSP ...

- ① Lay down the Channel Connector on the open side of the Channel



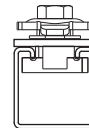
- ② Insert the Nut into the Channel



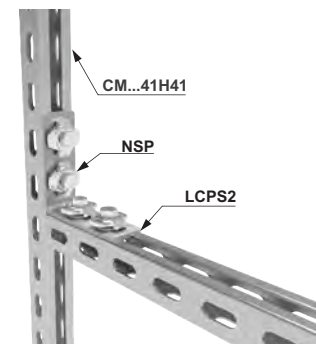
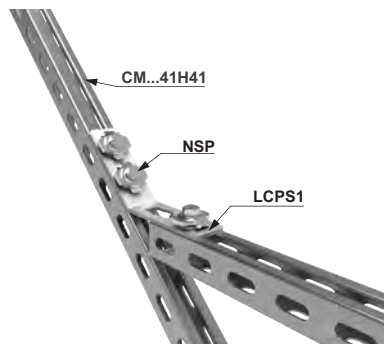
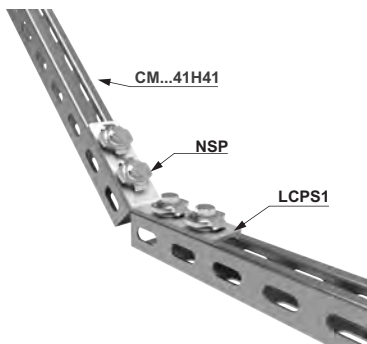
- ③ Push and turn the Nut by 90° clockwise



- ④ Secure the Nut by turning clockwise



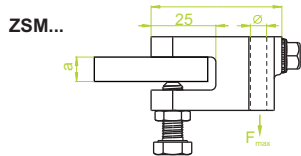
Application Example of NSP with Support Channels



Thickn. (ga) ± [mm]: 1.5 2.0 2.5 3.0 4.0 5.0 6.0



Quick Lock Clip



APPLICATIONS
Assembly of bars to I-profiles, L-profiles etc.

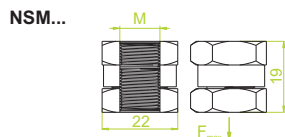
ZSM...

CODE	Di. Ø mm	Dim. a mm	Safe Working Load F _a [kN]	kg 1 pc	Catalogue No.	Qty
ZSMM8	M8	3-9 9.5-11	1.10 1.40	0.13	752307	100
ZSMM10	M10	3-9 9.5-11	1.10 2.20	0.13	752308	100



MATERIAL
Steel forge, zinc-coated

Quick Lock Nut



APPLICATIONS
Enables to omit thread-screwing. Installation time gets 50% shorter

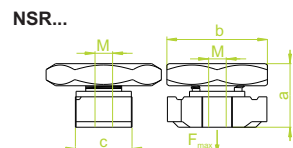
NSM...

CODE	Thread M mm	Safe Working Load F _{max} [kN]	Catalogue No.	Qty
NSMM6	6	1.65	650170	100
NSMM8	8	4.50	650270	100
NSMM10	10	6.00	650470	100
NSMM12	12	10.00	650570	100



MATERIAL
Electro-galv. steel (EG).

Quick Lock Nut - Rhomboid



APPLICATIONS
Mounting system elements to the opened side of assembly U-profiles

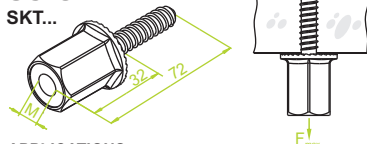
NSR...

CODE	Thread M mm	Dim. a mm	Dim. b mm	Dim. c mm	Safe Working Load F _{max} [kN]	Catalogue No.	Qty
NSRM8	8	23	35	13	2.75	650670	100
NSRM10	10	23	35	13	3.75	650770	100



MATERIAL
Electro-galv. steel (EG).

Quick Lock Anchoring Screw



APPLICATIONS
Allows for a slightly defective thread and minor burrs on the assembled thread bar. Installation time gets as much as 35% shorter

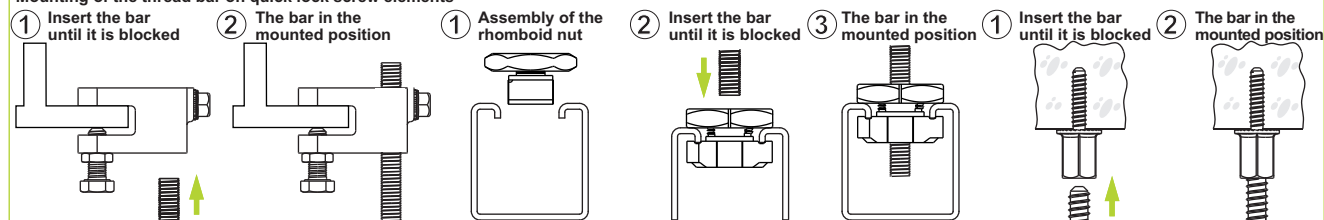
SKT...

CODE	Thread M mm	Safe Working Load F _{max} [kN]	Catalogue No.	Qty
SKTM8	8	2.90	650870	100
SKTM10	10	2.90	650970	100

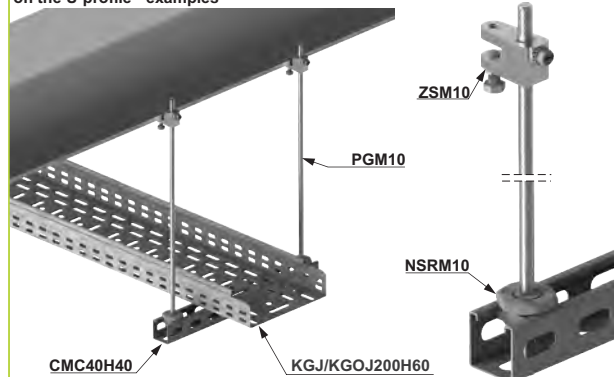


MATERIAL
Electro-galv. steel (EG).

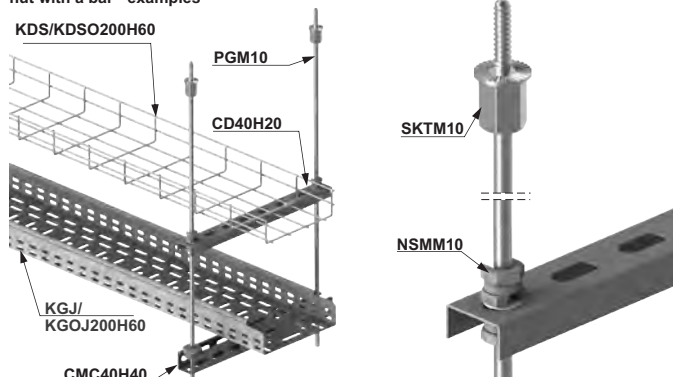
Mounting of the thread bar on quick lock screw elements



Assembly of the ZSM clip on the I-profile, assembly of the NSR rhomboid nut on the U-profile - examples

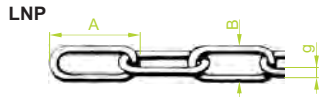


Application of the SKT anchoring screw on a ceiling, application of the NSM quick lock nut with a bar - examples





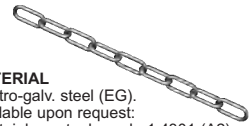
Genovese Chain



LNP...

CODE	Dimension g mm	Dimension AxB mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	
LNP2.2	2.2	29x10	30	0.20	650111	30
LNP2	2	18x9	150	0.30	650211	150
LNP3	3	23x12.5	100	0.50	650311	100
LNP5	5	31x19	38	1.95	650411	38

MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)
or 1.4401 (A4)



Victor Chain



LNS...

CODE	Dimension g mm	Dimension AxB mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	
LNS1.4	1.4	21x6.5	30	0.15	650213	30
LNS2	2	28x9	30	0.40	650113	30

MATERIAL
Electro-galv. steel (EG).



APPLICATIONS
Suspending cable runs.

Quick Link

OS

OS...

CODE	Dimension Ø mm	Allowable Tensile Load F _{max} [kN]	Catalogue No.	
OS4	4	0.40	650115	100
OS5	5	0.75	650215	100
OS6	6	1.00	650315	100



Twisted Link

OG

OG...

CODE	Dimension Ø mm	Catalogue No.	
OG4	4	650117	100
OG5	5	650217	100
OG6	6	650317	100



MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4401 (A4)

S-Hook

HS

HS...

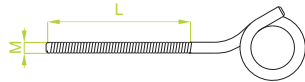
CODE	Dimension Ø mm	Allowable Tensile Load F _{max} [kN]	Catalogue No.	
HS3	3	0.08	650119	100
HS4	4	0.23	650219	100
HS5	5	0.30	650319	100
HS6	6	0.50	650419	100
HS7	7	0.73	650519	100
HS8	8	1.00	650619	100



APPLICATIONS
Connecting chain links.

Pigtail Bolt

SH



SH...

CODE	Thread M mm	Length L mm	Catalogue No.	
SHM6x80	6	80	650127	100
SHM8x100	8	100	650227	100
SHM10x120	10	120	650327	50



Eye Bolt

SHZ



SHZ...

CODE	Thread M mm	Length L mm	Catalogue No.	
SHZM6x80	6	80	650129	100
SHZM8x100	8	100	650229	100
SHZM10x120	10	120	650329	50

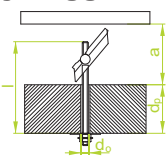


APPLICATIONS
Suspending lighting systems, cable trays, etc.

MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)

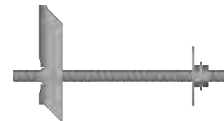
Gravity Toggle

SZ

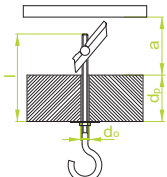


SZ...

CODE	Drill Bit-Ø d mm	Max. Panel/ Slab Thick. d ₁ mm	min. Cavity a mm	Length Anchor l mm	Catalogue No.	
SZM5x100	16	63	70	100	650150	25
SZM6x100	16	63	70	100	650250	25
SZM8x100	20	55	75	100	650300	20



SZH



SZH...

CODE	Drill Bit-Ø d mm	Max. Panel/ Slab Thick. d ₁ mm	min. Cavity a mm	Length Anchor l mm	Catalogue No.	
SZHM5x90	16	60	70	130	650450	20
SZHM6x100	16	60	70	130	650550	20
SZHM8x100	20	55	75	130	650650	20



APPLICATIONS
Fixing to hollow-core ceiling substrates and to trapezoidal/box-profiled roof decking sheets.

MATERIAL
Electro-galv. steel (EG).



Thimble

KU

KU...

CODE	Dimension Ø mm	Catalogue No.	Qty
KU3	3	650125	100
KU4	4	650225	100
KU5	5	650325	100
KU6	6	650425	100
KU8	8	650525	100
KU10	10	650625	100



APPLICATIONS

Protecting wire ropes against abrasion.

Wire Rope Grip

ZL

ZL...

CODE	Dimension Ø mm	Suites Rope Dia. Ø mm	Catalogue No.	Qty
ZL3	3	1.5; 2; 3	650123	100
ZL5	5	4; 5	650323	100
ZL6	6.5	6	650423	100
ZL8	8	8	650523	50
ZL10	10	10	650623	50



APPLICATIONS

For clipping steel wire ropes

Wire Rope

LS

LS...

CODE	Thread Ø mm	Length L mm	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Qty
LS1	1	1x7	0.50	650001	500
LS1.6	1.5	1x7	1.00	650021	300
LS2	2	1x19	1.36	650121	200
LS3	3	6x7	3.11	650221	200
LS4	4	6x7	5.54	650321	150
LS5	5	6x7	8.65	650421	150
LS6	6	6x19	11.50	650521	100
LS8	8	6x19	20.45	650621	100
LS10	10	6x19	32.00	650721	50
LS12	12	6x19	46.00	650821	50



MATERIAL

Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4301 (A2)
or 1.4401 (A4)

Wire Rope - PVC Coated

LSP

LSP...

CODE	Dimension Ø mm	Strand	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Qty
LSP1.6	3	1x7	1.00	650122	200
LSP2	3	1x19	1.36	650222	250
LSP3	4	6x7	2.65	650322	200
LSP4	5	6x7	4.00	650422	100
LSP5	6	6x7	5.32	650522	100
LSP6	8	6x7	8.55	650622	100
LSP8	10	6x19	14.00	650722	50



MATERIAL

PVC-U coated electro-galv. steel (EG).
Standard finish: colourless. Available
colours: blue, red, and green.
Available upon request:
E- Stainless steel, grade 1.4401 (A4)

Hanger - Hook End

LH1

LH1...

CODE	Dimension Ø mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Qty
LH1/1	1.5	1	0.19	650161	20
LH1/2	1.5	2	0.19	650261	20
LH1/3	1.5	3	0.19	650362	20
LH1/5	1.5	5	0.19	650461	20
LH1/10	1.5	10	0.19	650561	20



LH2

LH2...

CODE	Thread Ø mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Qty
LH2/1	2.0	1	0.44	650661	10
LH2/2	2.0	2	0.44	650761	10
LH2/3	2.0	3	0.44	650861	10
LH2/5	2.0	5	0.44	650961	10
LH2/10	2.0	10	0.44	651061	5



LH3

LH3...

CODE	Dimension Ø mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Qty
LH3/1	3.0	1	0.88	651161	10
LH3/2	3.0	2	0.88	651261	10
LH3/3	3.0	3	0.88	651361	10
LH3/5	3.0	5	0.88	651461	10
LH3/10	3.0	10	0.88	651561	5



Locking Device

ZLM

ZLM

CODE	Catalogue No.	Qty
ZLM	652261	1

Important!
Locking Device will suit Wire Rope LS 1.5. LS 1.5 is also available in coils.



Locking Device

ZLD

ZLD

CODE	Catalogue No.	Qty
ZLD	652361	1

Important!
Locking Device will suit Wire Rope LS 1.5. LS 1.5 is also available in coils.



Rope Cutter

NDL

NDL

CODE	Catalogue No.	Qty
NDL	651661	1

APPLICATIONS

Cutting stranded steel wire ropes



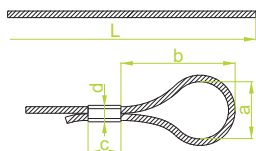
MATERIAL

Electro-galv. steel (EG).



Hanger - Loop

LSO



APPLICATIONS

It is perfect to wrap around purlins, beams, roof trusses and other components construction. It can be used for hanging Cable ladder

LSO...

CODE	∅ rope mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Set
LSO12	1.50	2	0.10	650007	1
LSO15	1.50	5	0.10	650017	1
LSO110	1.50	10	0.10	650027	1
LSO22	2.00	2	0.45	650037	1
LSO25	2.00	5	0.45	650047	1
LSO210	2.00	10	0.45	650057	1
LSO32	3.00	2	0.90	650067	1
LSO35	3.00	5	0.90	650077	1
LSO310	3.00	10	0.90	650087	1
LSO42	4.75	2	2.25	650097	1
LSO45	4.75	5	2.25	655501	1
LSO410	4.75	10	2.25	655502	1
LSO52	6.00	2	3.25	655503	1
LSO55	6.00	5	3.25	655504	1
LSO510	6.00	10	3.25	655505	1

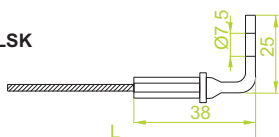


Table of Sizes corresponding to rope diameter

∅ rope mm	~a mm	~b mm	c mm	d mm
1	25	60	11	6
2	29	60	13	8
3	29	60	15	12
4	38	85	24	16
5	48	90	28	20

Hanger - 90° Eyelet

LSK



APPLICATIONS

It is perfect to fix to concrete, steel and wood by screws

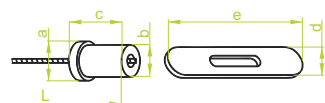
LSK...

CODE	∅ rope mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Set
LSK12	1.50	2	0.10	653002	1
LSK15	1.50	5	0.10	650167	1
LSK110	1.50	10	0.10	650177	1
LSK22	2.00	2	0.45	650187	1
LSK25	2.00	5	0.45	650197	1
LSK210	2.00	10	0.45	653003	1
LSK32	3.00	2	0.90	653004	1
LSK35	3.00	5	0.90	653005	1
LSK310	3.00	10	0.90	653006	1



Hanger - Toggle

LSZP



APPLICATIONS

It is perfect for suspension to underroofs or trapezoidal sheets, etc.

LSZP...

CODE	∅ rope mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Set
LSZP12	1.50	2	0.10	653007	1
LSZP15	1.50	5	0.10	653008	1
LSZP110	1.50	10	0.10	650267	1
LSZP22	2.00	2	0.45	650277	1
LSZP25	2.00	5	0.45	650287	1
LSZP210	2.00	10	0.45	650297	1
LSZP32	3.00	2	0.90	653009	1
LSZP35	3.00	5	0.90	653010	1
LSZP310	3.00	10	0.90	653011	1

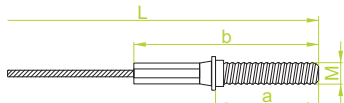
Table of Sizes corresponding to rope diameter

∅ rope mm	Dimension		Dimension	
	a mm	b mm	c mm	d mm
1	5.9	4.2	8	5.8
2	7.9	6.2	12	7.8
3	9.9	6.2	18	9.6



Hanger - Stud

LST



APPLICATIONS

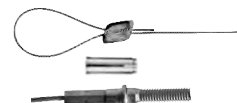
It is perfect to fix in concrete ceiling included Drop-in Anchor

LST...

CODE	∅ rope mm	Thread M mm	Length L m	Allowable Tensile Load F _{max} [kN]	Catalogue No.	Set
LST1M62	1.50	M6	2	0.10	653012	1
LST1M65	1.50	M6	5	0.10	650347	1
LST1M610	1.50	M6	10	0.10	653013	1
LST2M82	2.00	M8	2	0.45	650367	1
LST2M85	2.00	M8	5	0.45	653014	1
LST2M810	2.00	M8	10	0.45	650387	1
LST3M82	3.00	M8	2	0.90	650397	1
LST3M85	3.00	M8	5	0.90	653015	1
LST3M810	3.00	M8	10	0.90	650417	1
LST4M102	4.75	M10	2	2.25	650427	1
LST4M105	4.75	M10	5	2.25	653016	1
LST4M1010	4.75	M10	10	2.25	650447	1

Table of Sizes corresponding to stud thread diameter

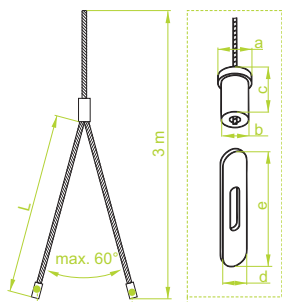
Thread M mm	Dimension	
	a mm	b mm
M6	20	48
M8	45	70
M10	50	100





Y-Fit-Toggle

LYZ



APPLICATIONS
It is perfect for suspension to underroofs or trapezoidal sheets, etc.

LYZ...

CODE	Ø rope mm	Length L mm	Safe Working Load F _{max} [kN]	Catalogue No.	Qty
LYZ115	1.50	150	0.10	650547	1
LYZ130	1.50	300	0.10	650557	1
LYZ150	1.50	500	0.10	650567	1
LYZ215	2.00	150	0.45	650577	1
LYZ230	2.00	300	0.45	650587	1
LYZ250	2.00	500	0.45	650597	1
LYZ315	3.00	150	0.90	650607	1
LYZ330	3.00	300	0.90	650617	1
LYZ350	3.00	500	0.90	650627	1

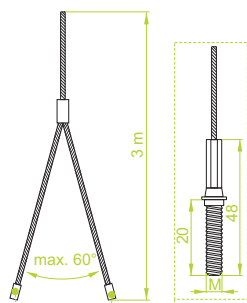
Table of Sizes corresponding to rope diameter

Ø linki mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm
1	5.9	4.2	8	5.8	40
2	7.9	6.2	12	7.8	40
3	9.9	6.2	18	9.6	50



Y-Fit-Stud

LYT



APPLICATIONS
It is perfect to fix in concrete ceiling by included Drop-in Anchor

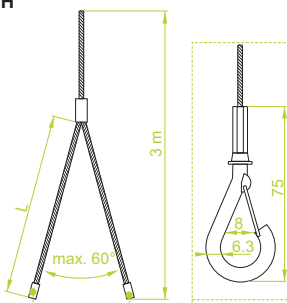
LYT...

CODE	Ø linki mm	Thread M mm	Dim L mm	Safe Working Load F _{max} [kN]	Catalogue No.	Qty
LYT1M615	1.50	M6	150	0.10	653017	1
LYT1M630	1.50	M6	300	0.10	650467	1
LYT1M650	1.50	M6	500	0.10	650477	1
LYT2M615	2.00	M6	150	0.45	650487	1
LYT2M630	2.00	M6	300	0.45	650497	1
LYT2M650	2.00	M6	500	0.45	650507	1
LYT3M615	3.00	M6	150	0.90	650509	1
LYT3M630	3.00	M6	300	0.90	650512	1
LYT3M650	3.00	M6	500	0.90	650513	1



Y-Fit-Snap Hook

LYH



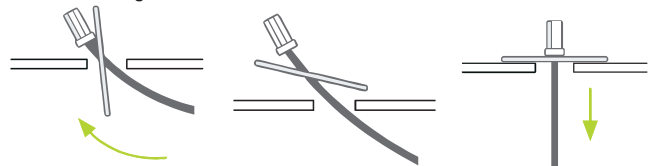
APPLICATIONS
Fast and easy support for wire mesh trays and luminaires

LYH...

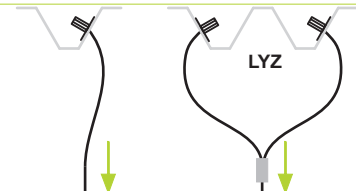
CODE	Ø rope mm	Length L mm	Safe Working Load F _{max} [kN]	Catalogue No.	Qty
LYH115	1.50	150	0.10	653018	1
LYH130	1.50	300	0.10	650647	1
LYH150	1.50	500	0.10	650657	1
LYH215	2.00	150	0.45	650667	1
LYH230	2.00	300	0.45	650677	1
LYH250	2.00	500	0.45	650687	1
LYH315	3.00	150	0.90	650697	1
LYH330	3.00	300	0.90	650707	1
LYH350	3.00	500	0.90	650717	1



Assembly to the false ceiling



Assembly to the trapezoidal sheets



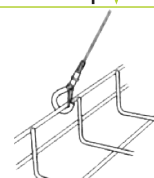
Advantages:

- ✓ 6 times faster installation
- ✓ assembly do not require any prior preparation
- ✓ Toolless assembly
- ✓ Fast set up of needed height
- ✓ increase stability
- ✓ easy disassembly
- ✓ several independent certificates



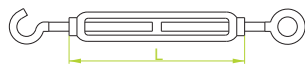
Advantages:

- ✓ 6 times faster installation
- ✓ 2 supports from one assembly point
- ✓ assembly do not require any prior preparation
- ✓ Toolless assembly
- ✓ Fast set up of needed height
- ✓ increase stability
- ✓ easy disassembly
- ✓ It has several independent certificates





Turnbuckle Hook and Eye
KHO



KHO...

CODE	Length L mm	Catalogue No.	Qty
KHO6x90	90	650154	100
KHO8x110	100	650254	60
KHO10x130	123	650354	50
KHO12x140	123	650454	30



Turnbuckle Eye and Eye
KOO

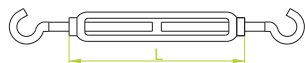


KOO...

CODE	Length L mm	Catalogue No.	Qty
KOO6x90	110	651154	100
KOO8x110	110	651254	60
KOO10x130	125	651354	50
KOO12x140	125	651454	30



Turnbuckle Hook and Hook
KHH



KHH...

CODE	Length L mm	Catalogue No.	Qty
KHH6x90	110	652054	100
KHH8x110	110	652154	60
KHH10x130	125	652254	50
KHH12x140	125	652354	30

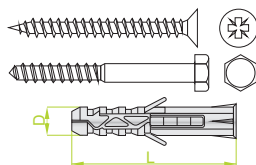


APPLICATIONS
Fixing assemblies, suspending cable runs

MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4401 (A4)

Wall Plug

KR



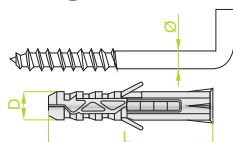
KR...

CODE	Screw Head Shape	Dia. D mm	Length L mm	Catalogue No.	Qty
KRØ6/3.5x35	⊕	6	30	650139	100
KRØ6/3.5x50	⊕	6	30	650239	100
KRØ8/4x40	⊕	8	40	650339	100
KRØ8/4x60	⊕	8	40	650439	100
KRØ10/5x50	⊕	10	50	650539	100
KRØ10/6x60	○	10	60	650639	100
KRØ10/6x80	○	10	60	650739	100
KRØ10/6x100	○	10	60	650839	100
KRØ10/6x120	○	10	60	650939	100
KRØ12/8x60	○	12	60	651039	100
KRØ12/8x80	○	12	60	651139	100
KRØ12/8x100	○	12	80	651239	100
KRØ12/8x120	○	12	80	651339	100
KRØ14/10x120	○	14	80	651439	100
KRØ14/10x140	○	14	80	651539	100
KRØ14/10x160	○	14	80	651639	100



Wall Plug

KHK



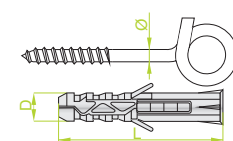
KHK...

CODE	Dia. Ø mm	Dia. D mm	Length L mm	Catalogue No.	Qty
KHKØ6/3	2.5	6	30	650157	100
KHKØ8/4.5	3.5	8	40	650257	100
KHKØ10/5.5	4	10	50	650357	100
KHKØ10/6	5	10	65	650457	100



Wall Plug

KHR



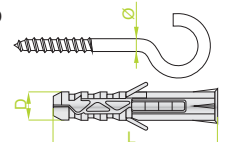
KHR...

CODE	Thread Ø mm	Thread D mm	Length L mm	Catalogue No.	Qty
KHRØ12/8	6	12	60	650458	100



Wall Plug

KHRO



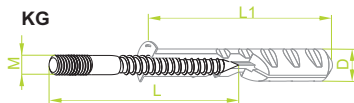
KHRO...

CODE	Dia. Ø mm	Dia. D mm	Length L mm	Catalogue No.	Qty
KHROØ6/4	3	6	30	650159	100
KHROØ8/4.5	3.5	8	40	650259	100



Wall Plug

KG



KG...

CODE	Thread M mm	Dia. D mm	Length L mm	Length L1 mm	Catalogue No.	Qty
KGØ12/8x60	8	12	60	58	650156	100
KGØ12/8x80	8	12	80	60	650256	100
KGØ12/8x100	8	12	40	60	650356	100
KGØ12/8x120	8	12	60	60	650456	100



APPLICATIONS
Fixing assemblies, suspending cable runs from overhead concrete base

MATERIAL
Electro-galv. steel (EG).



BOLTS AND SCREW ANCHORS. TECHNICAL INFORMATION

All specifications are given for concrete class B ≥ 20.

TECHNICAL DATA FOR ANCHOR BOLTS STR and STS

Specifications	M6	M8	M10	M12	M16
Ultimate Allowable Tensile Load F max. [kN]	2.0	6.0	9.0	12.0	14.0 20.0
Minimum Spacing of Centre Fixing for F max. [mm]	120	160	200	240	280
Minimum Edge Distance for F max. [mm]	60	80	100	120	140
Drilled-Hole Diameter [mm]	10.5	12.5	16.5	18.6	25.6
Minimum Hole Diameter in the Part Being Fixed [mm]	7.0	9.0	11.0	13.0	17.0

TECHNICAL DATA FOR ANCHOR BOLTS PSR

Specifications	M6	M8	M10	M12	M16
Ultimate Allowable Tensile Load F max. [kN]	2.25	5.0	5.4	10.1	15.8
Minimum Spacing of Centre Fixing for F max. [mm]	180	240	300	360	420
Minimum Edge Distance for F max. [mm]	90	120	150	180	210
Drilled-Hole Diameter [mm]	6.4	8.45	10.5	12.5	16.6
Minimum Hole Diameter in the Part Being Fixed [mm]	7.0	9.0	11.0	13.0	17.0

TECHNICAL DATA FOR STEEL DROP-IN ANCHORS TRS

Specifications	M6	M8	M10	M12	M16
Ultimate Allowable Tensile Load F max. [kN]	2.0	2.8	4.4	6.2	8.2
Minimum Spacing of Centre Fixing for F max. [mm]	70	75	100	125	165
Minimum Edge Distance for F max. [mm]	95	100	135	175	230
Drilled-Hole Diameter [mm]	8.0	10.0	12.0	15.0	20.0
Minimum Hole Diameter in the Part Being Fixed [mm]	7.0	9.0	11.0	13.0	17.0

TECHNICAL DATA FOR BRASS DROP-IN ANCHORS TRM

Specifications	M6	M8	M10	M12	M16
Ultimate Allowable Tensile Load F max. [kN]	0.65	1.1	1.6	2.2	3.3
Minimum Spacing of Centre Fixing for F max. [mm]	70	75	100	125	165
Minimum Edge Distance for F max. [mm]	95	100	135	175	230
Drilled-Hole Diameter [mm]	8.0	10.0	12.0	15.0	20.0
Minimum Hole Diameter in the Part Being Fixed [mm]	7.0	9.0	11.0	13.0	17.0

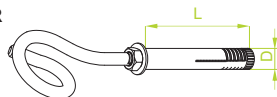
SELECTION OF FASTENINGS AND FIXINGS FOR VARIOUS SUBSTRATES

SUBSTRATE	Screw/Drop-In Anchor/Anchor Bolt/Nail Anchor																				
	STR	SKT	STS	TRS	TRM	PSR/PSRO	PSRZ	SRO	SRBO	SBSO	SBO	GS/GSO	KR	KMW	KMS	KWBO	KSKO	KKGS	MKR	SMD	KRN
Concrete/Stone	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Silicate bricks																	●		●		●
Plaster-cardboard																			●		
Porotherm																	●		●		●
Core flooring																	●				●
Cellular beton			●										●								●
Wood					●								●								●
Steel sheet																				●	



Anchor Bolt

SHR



SHR...

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
SHRM6/10x80	10	80	650131	100
SHRM8/12x100	12	100	650231	100
SHRM10/14x120	14	120	650331	50



Anchor Bolt

SHRZ



SHRZ...

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
SHRZM6/10x80	10	80	650133	100
SHRZM8/12x100	12	100	650233	100
SHRZM10/14x120	14	120	650333	50



Anchor Bolt

SHRO



SHRO...

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
SHROM6/10x80	10	80	650135	100
SHROM8/12x100	12	100	650235	100
SHROM10/14x120	14	120	650335	50



APPLICATIONS

Suspending cable trays, lighting systems, etc.

Anchor Bolt

STR



STR...

CODE	Thread D mm	Length L mm	Catalogue No.	Qty
STRM6/10x60	10	60	650137	100
STRM6/10x100	10	100	650237	100
STRM8/12x60	12	60	650337	100
STRM8/12x80	12	80	650437	100
STRM8/12x100	12	100	650537	100
STRM8/12x120	12	120	650637	100
STRM10/16x80	16	80	650737	50
STRM10/16x100	16	100	650837	50
STRM10/16x120	16	120	650937	50
STRM12/18x100	18	100	651037	50
STRM12/18x120	18	120	651137	25
STRM16/25x120	25	120	651237	25



APPLICATIONS

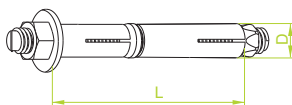
Fixing assemblies, suspending cable runs from overhead concrete base

MATERIAL

Electro-galv. steel (EG).

Anchor Bolt

STS



STS...

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
STSM6/10x100	10	100	650155	100
STSM6/10x150	10	150	650255	50
STSM8/12x100	12	100	650355	100
STSM8/12x150	12	150	650455	50
STSM8/12x180	12	180	650555	50
STSM10/16x100	16	100	650655	50
STSM10/16x150	16	150	650755	50
STSM10/16x210	16	210	650855	25
STSM12/18x120	18	120	650955	50
STSM12/18x160	18	160	651055	25
STSM12/18x200	18	200	651155	25



Frame Fixing

KRN

APPLICATIONS

Fixing assemblies and suspending cable trays to full and empty basis.

KRN...

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
KRN10x80	10	80	651008	50
KRN10x100	10	100	651010	25
KRN10x120	10	120	651012	25

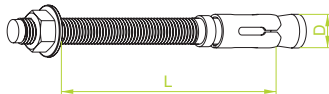


MATERIAL

Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4401 (A4)

Anchor Bolt

PSR



PSR...

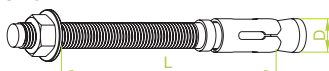
CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
PSRM6x65	6	65	650153	200
PSRM6x100	6	100	650253	100
PSRM8x75	8	75	650353	100
PSRM8x115	8	115	650453	100
PSRM10x65	10	65	650553	100
PSRM10x90	10	90	650653	100
PSRM10x95	10	95	651095	50
PSRM10x115	10	115	651115	50
PSRM10x120	10	120	650753	50
PSRM12x90	12	90	651353	50
PSRM12x100	12	100	651210	50
PSRM12x110	12	110	650953	50
PSRM12x140	12	140	651053	50



MATERIAL

Electro-galv. steel (EG).
Available upon request:
F - Hot-dip galvanised steel (HDG)
E - Stainless steel, grade 1.4401 (A4)

PSRO



APPLICATIONS

Fixing assemblies, suspending cable runs from overhead concrete base

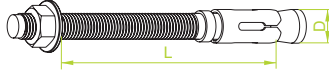
PSRO...

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
PSROM6x45	6	45	651351	100
PSROM6x50	6	50	651352	100
PSROM8x75	8	75	804000	100
PSROM10x80	10	80	804100	100
PSROM12x100	12	100	804200	50



E-90

PSRZ



APPLICATIONS

Fixing assemblies, suspending cable runs from overhead concrete base (uncracked, two-way slab, cracked).

PSRZ...

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
PSRZM8x75	8	75	807000	50
PSRZM8x80	8	80	807880	50
PSRZM10x80	10	85	807100	50
PSRZM12x100	12	110	807200	20



N

E-90

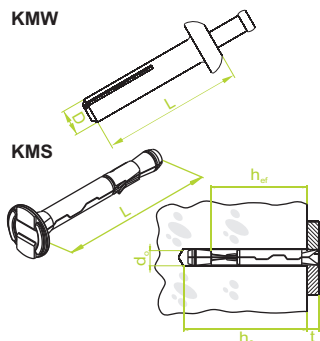
MATERIAL

Electro-galv. steel (EG).
Available upon request:
E - Stainless steel, grade 1.4401 (A4)



Nail-In Anchor

KMW



KMW...

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
KMW6x30	6	30	652030	100
KMW6x40	6	40	652040	100
KMW6x50	6	50	652050	50



KMS

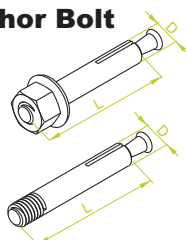
CODE	Length L mm	Drill Bit		Min Anchorage Depth		Usable Length t mm	Catalogue No.	Qty
		d _o mm	d _i mm	h _o mm	h _{ef} mm			
KMS6x5	45	6	40	32	5	651070	100	
KMS6x32	75	6	40	32	35	651170	100	



Anchor Bolt

SRO

SRBO



SROM6x30

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
SROM6x30	6	30	803900	200



SRBOM6x30

CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
SRBOM6x30	6	30	803912	200



MATERIAL
Electro-galv. steel (EG).
Available upon request:
E- Stainless steel, grade 1.4401 (A4)

Stop Drill

WSRO6x30

WSRO6x30

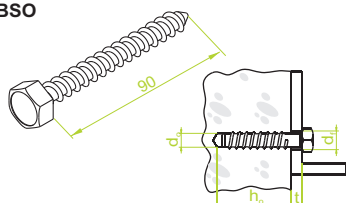
CODE	Dia. D mm	Length L mm	Catalogue No.	Qty
WSRO6x30	6	30	803906	1

Drilling holes with precise depth for SROM6x30 studs.



Concrete Screw

SBSO



SBSO...

CODE	Drill Bit - Ø d _o mm	Hole Dia. in Substrate d _i mm	Min Drill Depth h _o mm	Usable Length t mm	Catalogue No.	Qty
SBSO10x90	10	14	100	5	803917	50



MATERIAL
Electro-galv. steel (EG).

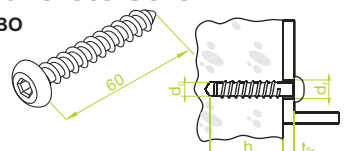
SBSO...E

CODE	Drill Bit - Ø d _o mm	Hole Dia. in Substrate d _i mm	Min Drill Depth h _o mm	Usable Length t mm	Catalogue No.	Qty

MATERIAL
E- Stainless steel, grade 1.4401 (A4)

Concrete Screw

SBO



SBO...

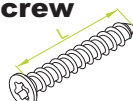
CODE	Drill Bit - Ø d _o mm	Hole Dia. in Substrate d _i mm	Min Drill Depth h _o mm	Usable Length t mm	Catalogue No.	Qty	
							SBO5x60
SBO6x60	60	6	8	65	5	803915	100
SBO7x52	52	6	8	52	20	803956	100



MATERIAL
Electro-galv. steel (EG).

Concrete Screw

WDB



WDB7.5x52

CODE	Length L mm	d _o mm	Hole Dia. in Substrate d _i mm	Min Drill Depth h _o mm	Usable Length t _{fix} mm	Catalogue No.	Qty

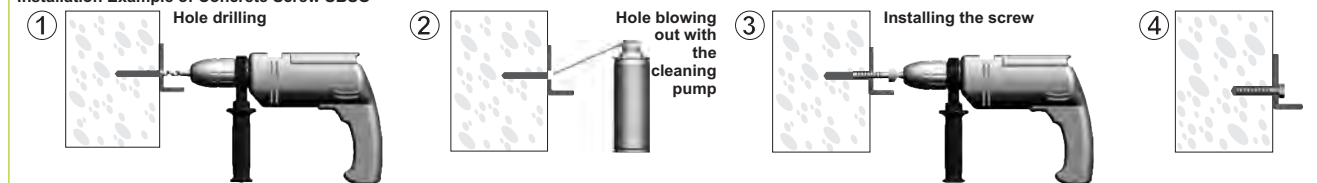


MATERIAL for KWBO
Electro-galv. steel (EG).

APPLICATIONS
Fixing to concrete Cable Clips UDF..., UEF... and Cable Hangers OZ...



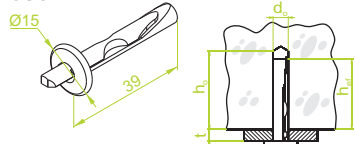
Installation Example of Concrete Screw SBSO





Ceiling Nail

GSO



GS...

CODE	Thread D mm	Catalogue No.	Qty
GS6x40	6	652060	100

GSO

CODE	Drill Bit d _s mm	Screw Head Dia. h _{ef} mm	Min Anchorage Depth h _{ef} mm	Min Drill Depth h _s mm	Usable Length t mm	Catalogue No.	Qty
GSO6x40	6	45	32	4.5	803929	100	



MATERIAL for KWBO
Electro-galv. steel (EG).

Stop Drill

WGSO6x40

WGSO6x40

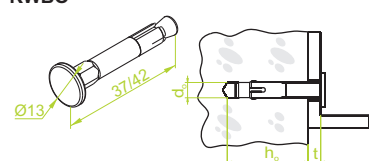
CODE	Thread D mm	Length L mm	Catalogue No.	Qty
WGSO6x40	6	30	803930	1

Drilling holes with precise depth for GSO6x40 studs.



Nail Anchor

KWBO



KWBO...

CODE	Drill Bit d _s mm	Screw Head Dia. h _{ef} mm	Min Anchorage Depth h _{ef} mm	Min Drill Depth h _s mm	Usable Length t mm	Catalogue No.	Qty
KWBO6x35	6	13	25	40	5	803920	100
KWBO6x40	6	13	30	45	5	803921	100



MATERIAL for KWBO
Electro-galv. steel (EG).

Hollow - Ceiling Anchor

APPLICATIONS
Fixing assemblies, suspending cable runs from overhead concrete and precast hollow core flooring slab bases.

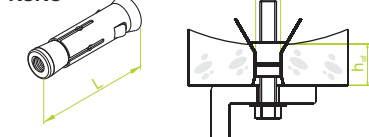
KWBO...E

CODE	Drill Bit d _s mm	Screw Head Dia. h _{ef} mm	Min Anchorage Depth h _{ef} mm	Min Drill Depth h _s mm	Usable Length t mm	Catalogue No.	Qty
KWBO6x40E	6	13	30	45	5	803922	100

MATERIAL for KWBOE
E- Stainless steel, grade 1.4401 (A4)

Hollow - Ceiling Anchor

KSKO



KSKO...

CODE	Drill Bit - Ø d _s mm	Min Drill Depth h _{ef} mm	Anchor Length L mm	Catalogue No.	Qty
KSKOM6	10	30	37	803923	100
KSKOM8	12	35	43	803924	100
KSKOM10	16	40	52	803925	100



MATERIAL for KSKO
Electro-galv. steel (EG).

APPLICATIONS
Fixing assemblies, suspending cable runs from overhead concrete and precast hollow core flooring slab bases.

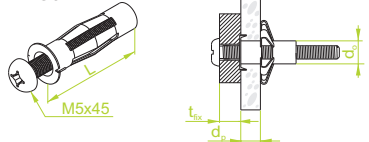
KSKO...E

CODE	Drill Bit d _s mm	Min Drill Depth h _{ef} mm	Anchor Length L mm	Catalogue No.	Qty
KSKOM6E	10	30	37	803926	100
KSKOM8E	12	35	43	803927	100
KSKOM10E	16	40	52	803928	100

MATERIAL for KSKOE
E- Stainless steel, grade 1.4401 (A4)

Anchor Bolt

KKG5



KKG5

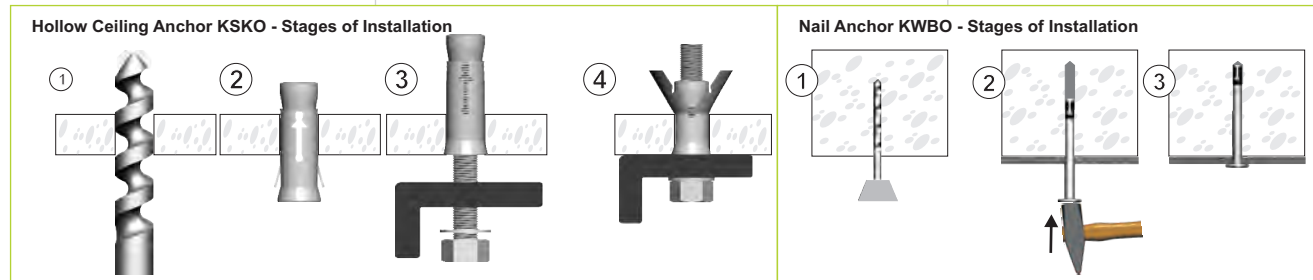
CODE	Length L mm	Drill Bit d _s mm	Usable Length t mm	Max thickness of the drywall t _p mm	Max thickness Elements of assembly t _a mm	Catalogue No.	Qty
KKG5x37	37	10	47	6-15	19	803940	100
KKG5x65	65	10	75	20-34	24	803943	100

ATTENTION!
- Assembly only to the drywalls



MATERIAL
Electro-galv. steel (EG).

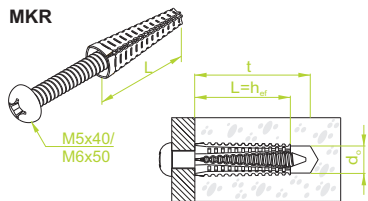
APPLICATIONS
Construction mounting, Installation of the cable route to the drywall





Anchor Bolt

MKR



APPLICATIONS

InSteelling, assembling, handing cable route to Autoclaved aerated concrete, Silicate bricks, concrete and Porotherm style clay block bricks

MKR...

CODE	Drill Bit - Ø d _o mm	Min Drill Depth h _{ef} mm	Usable Length t mm	Catalogue No.	Qty
MKR6x32	8	32	38	803941	100
MKR8x38	11	38	46	803942	100

ATTENTION!

- for assembly to Porotherm style clay block bricks do not use hammer drill
- to assembly in aerated concrete anchors can be driven in without previously drilled holes.



MATERIAL

Electro-galv. steel (EG).

Self-drilling Screw

SMD4.8x16



SMD5.5x32



APPLICATION

Mounting UDF... and UEF... cable clamps to steel surfaces (sandwich panels, trapezoidal steel sheets)

SMD4.8x16

CODE	Thickness Elements of Assembly mm	Thickness of the steel substrate mm	Catalogue No.	Qty
SMD4.8x16	1-2	0.5-4	804043	100

SMD5.5x32

CODE	Thickness Elements of Assembly mm	Thickness of the steel substrate mm	Catalogue No.	Qty
SMD5.5x32	1-2	4-10	804044	100



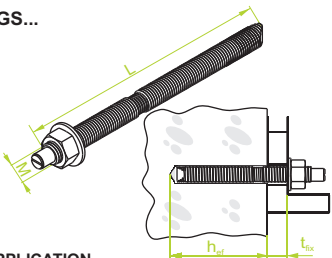
MATERIAL

Zinc-coated steel.



Thread Rod

PGS...



APPLICATION

Mounting of steel structures, rails, consoles, ladders, cable routes, steps, gates, facades; assembly with spacers and assembly of wooden structures

PGS...

CODE	Thread M	Length L	Max Usable Length t _{fix}	Effective Anchorage Depth h _{ef}	Max. Breakout Force [kN]	kg	1 pc	Catalogue No.	Qty
PGSM8x110	8	110	13	80	8.8	0.04	653301	10	
PGSM10x130	10	130	20	90	12.3	0.08	653401	10	
PGSM12x160	12	160	25	110	19.7	0.14	653501	10	

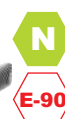
NOTE!

To be used with ZI300 mortars in solid concrete



MATERIAL

Zinc-coated steel



Glass Ampule

(comes as a set with PGS...)

AS...

APPLICATION

Mounting for steel structures, rails, consoles, ladders, cable routes, steps, gates, facades; assembly with spacers and assembly of wooden structures

AS...

CODE	Thread M	Drill - Ø d _o mm	Usable length t	Effective Anchorage depth h _{ef}	Catalogue No.	Qty
AS8	8	10	80	80	653601	10
AS10	10	12	90	90	653701	10
AS12	12	14	110	110	653801	10

ADVANTAGES

High resistance and low resin shrinkage allow for applying highest loads to solid concrete. This method of anchoring is free of expansion stress.



MATERIAL

Vinylester resin



Injection Mortar

ZI300

ELEMENTS

A set includes:
1 container 300 ml + 2 mixers

APPLICATION

Mounting of steel structures, rails, racks, consoles, gates, facades, window elements; assembly with spacers

ZI300

CODE	Capacity ml	Catalogue No.	Set
ZI300	300	653901	1

NOTE! Styrene free injection mortar ZI300 (summer version), to be used with standard silicone pistols

ADVANTAGES: High hybrid resistance of heavy-load mortar for all types of construction materials. A universal assembly system for any site! Designed for anchoring of reinforcement bars. First injection system with approval for concrete, anchoring of reinforcement bars, solid and hollow blocks, and aerated concrete.

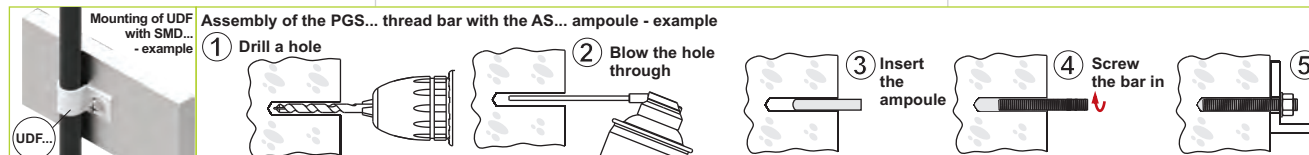
Drying Time

Temp. container	Gelation time	Floor Temp.	Drying Time
+5°C- +10°C	20 min.	+5°C- +10°C	3 h
+10°C- +20°C	10 min.	+10°C- +20°C	2 h
+20°C- +30°C	6 min.	+20°C- +30°C	60 min.
+30°C- +40°C	4 min.	+30°C- +40°C	30 min.



MATERIAL

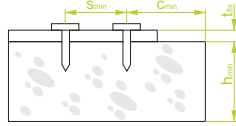
Polyester resin





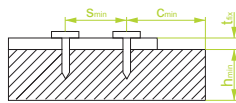
Cartridge Nails for Concrete

GWT



Cartridge Nails for Steel

GWTS3.7x15



APPLICATION

Mounting of full clamps. Compatible with a gas nail gun.

Gas Nail Gun, Cordless

OGB



HIGHLIGHTS

Gas nail gun for concrete
- gas capacity: min 1.100 shots,
- battery life: max 6.000 shots

APPLICATION

Designed for fixing full clamps with nails.

Nail Gun Gas

GDO

APPLICATION

Gas for nail guns and star grip nailers

GWT...

CODE	Dia. d mm	Length L mm	Catalogue No.	quantity in the cartridge	quantity in the pack
GWT3.7x20	3.7	20	654001	10	1000
GWT3.7x25	3.7	25	654101	10	1000
GWT3.7x30	3.7	30	654201	10	1000
GWT3.7x40	3.7	40	654301	10	1000

CODE	Floor						Fix element				
	Min Thickness			Total anchorage depth			Min spacing of nails S _{min} [mm]	Min distance from the corner C _{min} [mm]	Thickness		
	Concrete C16/20	Concrete C20/25	Concrete C25/30	Concrete C16/20	Concrete C20/25	Concrete C25/30			Concrete C16/20	Concrete C20/25	Concrete C25/30
	h _{min} [mm]	h _{min} [mm]	h _{min} [mm]	h _{min} [mm]	h _{min} [mm]	h _{min} [mm]			t ₁ [mm]	t ₂ [mm]	t ₃ [mm]
GWT3.7x20	80	80	80	30	25	20	50	80	-	-	-
GWT3.7x25	80	80	80	30	25	20	50	80	-	-	5
GWT3.7x30	80	80	80	30	25	20	50	80	-	5	10
GWT3.7x40	80	80	80	30	25	20	50	80	10	15	20

GWTS3.7x15



GWTS...

CODE	Dia. d mm	Length L mm	Catalogue No.	quantity in the cartridge	quantity in the pack
GWTS3.7x15	3.7	15	655001	10	1000

CODE	Floor						Fix element			
	Min Thickness		Total anchorage depth		Min spacing of nails S _{min} [mm]	Min distance from edge from edge C _{min} [mm]	Thickness			
	Steel S	Steel S	Steel S	Steel S			Steel S	Steel S	Steel S	
	h _{min} [mm]	h _{min} [mm]	h _{min} [mm]	h _{min} [mm]			t ₁ [mm]	t ₂ [mm]	t ₃ [mm]	
GWTS3.7x15	4	4	4	4	30	30	30	30	5	3

NOTE! GWT3.7x20 nails are designed for the following new types of full clamps: UDFB..., UEFB... If you order 1.100 nails, you get gas for the nail gun free of charge!

NOTE! If you order over 25.000 nails, you get a nail gun free of charge!

OGB

CODE	kg	Catalogue No.	quantity
OGB	3.5	654401	1

SPECIFICATIONS

Range of high of the nails mm	Type of the nails	MATERIAL	Capacity of the Cartridge	Battery charging time	Maximum battery performance	Noise level
15-40	Nails smooth with a round head	Steel/Concrete	40	2 h	6000	92dB

Bearing Capacity

	Floor		
	Concrete C16/20	Concrete C20/25	Concrete C25/30
Effective anchorage depth	30.00	25.00	20.00
STRETCHING	N _{st} [kN]	N _{st} [kN]	N _{st} [kN]
Recommended bearing capacity	0.60	0.60	0.60
Cutting	V _{st} [kN]	V _{st} [kN]	V _{st} [kN]
Recommended bearing capacity	0.60	0.60	0.60

NOTE! If you order over 15.000 nails, you get a special price for the nail gun!

ADVANTAGES: Easy adjustment of anchoring depth.

A big magazine can carry up to 30 nails with length of up to 40 mm.

State-of-the-art, high-absorption and resistant back filter.

Magnetic ring ensures simple application of clamps and clips.



GDO

CODE	Catalogue No.	quantity
GDO	650542	1

SPECIFICATIONS

Fuel Type	Lubrication	Capacity	Weight	Range of temperatures	Efficiency
Propan/Butan	Yes	68ml	34g	-5 do 35°C	min. 1000 shots



Assembly of the PGS... thread bar with the Z1300 injection mortar

