

Product Program
United Kingdom

G5



Fixing Systems

■ **GMS - Expertise on site**

An important safety-related feature is that our partners and customers are capable of selecting the right fixing for each application. GMS technicians support our craftsmen with all necessary instructions either on site or in-house. Experience and state-of-the-art standards are of utmost importance. Both anchoring calculations and support of project management round off our service programme.

Our services in detail:

- **Anchoring calculations**
- **Design of fixings**
- **On site demonstrations**
- **Pull-out tests on site**
- **Product training**
- **Technical advice**
- **Calculation**
- **Understanding European Technical Approvals**

***The world
of plugs and anchors***

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4	<i>Throughbolt Anchor Opt. 7</i>
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8	<i>Drop in Anchor</i>
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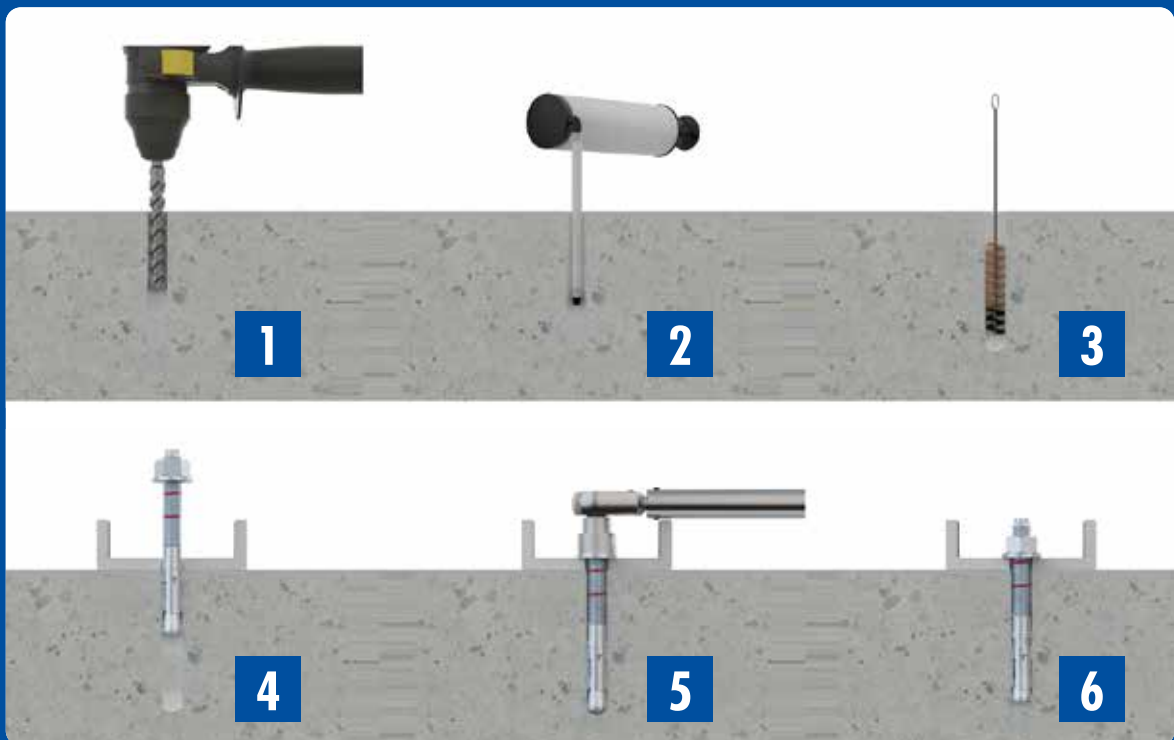
Concrete	Natural Stone, Rock	Calcium silicate brick	Brick	Perforated Brick	Lightweight Concrete	Gypsum	Plasterboard, Chipboard	Polystyrene, PU rigid foam panel, Polystyrene	Asphalt	
1 - 9										
■	■									1
■	■									4
■	■									6
■	■									8
■	■									9
■	■	■	■							9
11 - 18										
■	■	■	■	■						11
■	■	■	■	■						12
■	■	■	■	■						17
19										
					■					19
								■		19
21										
■										21
■										21
22 - 26										
■	■	■	■	■	■					22
■	■	■	■	■	■					22
■	■									22
										22
■	■	■	■	■	■					23
				■						23
										23
■	■									24
■	■									25
■	■									26

METAL ANCHORS

Application Example



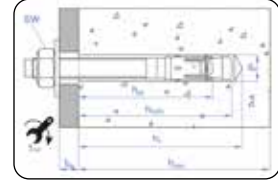
Installation Throughbolt Anchor



- 1** Drill borehole
- 2 - 3** Clean borehole
- 4** Install anchor
- 5** Tighten
- 6** Ready installation

Throughbolt Anchor MTP-X

zinc-plated shaft with hot dip galvanised (ATLANTIS C3-L) clip
ETA-Approval for cracked & uncracked concrete, Opt. I



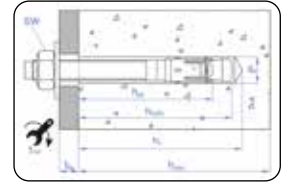
Type Ø/Length	Art.No.	Thread (mm) d _s	Fixing Thickness (mm) t	Length (mm) l	Drillbit-Ø (mm) d _b	Drilling Depth (mm) h _d	Setting Depth (mm) h	Q.ty/Box
8x50*	APX08050	M8	2	50	8	40	37	100
8 x 75	APX08075	M8	9	75	8	60	55	100
8 x 80	APX08080	M8	14	80	8	60	55	100
8 x 95	APX08095	M8	29	95	8	60	55	100
8 x 115	APX08115	M8	49	115	8	60	55	100
10 x 90	APX10090	M10	10	90	10	75	68	100
10 x 105	APX10105	M10	25	105	10	75	68	50
10 x 115	APX10115	M10	35	115	10	75	68	50
10 x 135	APX10135	M10	55	135	10	75	68	50
10 x 165	APX10165	M10	85	165	10	75	68	50
10 x 185	APX10185	M10	105	185	10	75	68	50
12 x 80*	APX12080	M12	4	80	12	65	60	50
12 x 100	APX12100	M12	4	100	12	85	80	50
12 x 110	APX12110	M12	14	110	12	85	80	50
12 x 120	APX12120	M12	24	120	12	85	80	50
12 x 130	APX12130	M12	34	130	12	85	80	50
12 x 150	APX12150	M12	54	150	12	85	80	50
12 x 180	APX12180	M12	84	180	12	85	80	50
12 x 200	APX12200	M12	104	200	12	85	80	50
12 x 220	APX12220	M12	124	220	12	85	80	25
12 x 255	APX12255	M12	159	255	12	85	80	25
16 x 145	APX16145	M16	28	145	16	105	97	25
16 x 175	APX16175	M16	58	175	16	105	97	25
16 x 220	APX16220	M16	103	220	16	105	97	25
16 x 250	APX16250	M16	133	250	16	105	97	25
20 x 170	APX20170	M20	32	170	20	125	114	20
20 x 200	APX20200	M20	62	200	20	125	114	20

* not part of the approval

METAL ANCHORS

Throughbold Anchor MTP-G

hot dip galvanised (Atlantis C3-L shaft) with A4 stainless steel clip
ETA-Approval for cracked & uncracked concrete, Opt. 1

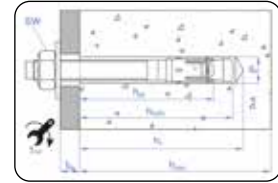


Type Ø/Length	Art.No.	Thread (mm) d ₁	Fixing Thickness (mm) t	Length (mm) l	Drillbit-Ø (mm) d ₂	Drilling Depth (mm) h ₁	Setting Depth (mm) h	Q.ty/Box
6 x 60*	APG06060	M6	10	60	6	50	46	200
6 x 70*	APG06070	M6	20	70	6	50	46	200
6 x 100*	APG06100	M6	50	100	6	50	46	200
8 x 50*	APG08050	M8	2	50	8	40	37	100
8 x 60*	APG08060	M8	12	60	8	40	37	100
8 x 75	APG08075	M8	9	75	8	60	55	100
8 x 95	APG08095	M8	29	95	8	60	55	100
8 x 115	APG08115	M8	49	115	8	60	55	100
10 x 70*	APG10070	M10	5	70	10	60	53	100
10 x 90	APG10090	M10	10	90	10	75	68	100
10 x 105	APG10105	M10	25	105	10	75	68	50
10 x 115	APG10115	M10	35	115	10	75	68	50
10 x 135	APG10135	M10	55	135	10	75	68	50
10 x 165	APG10165	M10	85	165	10	75	68	50
10 x 185	APG10185	M10	105	185	10	75	68	50
12 x 80*	APG12080	M12	4	80	12	65	60	50
12 x 110	APG12110	M12	14	110	12	85	80	50
12 x 130	APG12130	M12	34	130	12	85	80	50
12 x 150	APG12150	M12	54	150	12	85	80	50
12 x 180	APG12180	M12	84	180	12	85	80	50
12 x 200	APG12200	M12	104	200	12	85	80	50
16 x 125	APG16125	M16	8	125	16	105	97	25
16 x 145	APG16145	M16	28	145	16	105	97	25
16 x 175	APG16175	M16	58	175	16	105	97	25
16 x 220	APG16220	M16	103	220	16	105	97	25
20 x 170	APG20170	M20	32	170	20	125	114	20
20 x 200	APG20200	M20	62	200	20	125	114	20

* not part of the approval

Throughbold Anchor MTP-A4

A4 stainless steel, ETA-Approval for cracked & uncracked concrete, Opt. 1

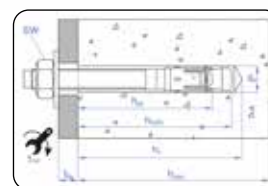


Type Ø Length	Art.No.	Thread (mm) d ₁	Fixing Thickness (mm) t	Length (mm) l	Drillbit-Ø (mm) d ₂	Drilling Depth (mm) h ₂	Setting Depth (mm) h	Q.ty/Box
8 x 75	APA408075	M8	9	75	8	60	55	100
8 x 95	APA408095	M8	29	95	8	60	55	100
8 x 115	APA408115	M8	49	115	8	60	55	100
8 x 135	APA408135	M8	69	135	8	60	55	100
10 x 90	APA410090	M10	10	90	10	75	68	50
10 x 105	APA410105	M10	25	105	10	75	68	100
10 x 115	APA410115	M10	35	115	10	75	68	50
10 x 135	APA410135	M10	55	135	10	75	68	50
10 x 165	APA410165	M10	85	165	10	75	68	50
10 x 185	APA410185	M10	105	185	10	75	68	50
12 x 110	APA412110	M12	14	110	12	85	80	50
12 x 120	APA412120	M12	24	120	12	85	80	50
12 x 130	APA412130	M12	34	130	12	85	80	50
12 x 150	APA412150	M12	54	150	12	85	80	50
12 x 180	APA412180	M12	84	180	12	85	80	50
12 x 200	APA412200	M12	104	200	12	85	80	50
16 x 125	APA416125	M16	8	125	16	105	97	50
16 x 145	APA416145	M16	28	145	16	105	97	25
16 x 175	APA416175	M16	58	175	16	105	97	25
16 x 190	APA416190	M16	73	190	16	105	97	25
16 x 220	APA416220	M16	103	220	16	105	97	20
20 x 200	APA420200	M20	62	200	20	125	114	20
20 x 240	APA420240	M20	102	240	20	125	114	15
20 x 285	APA420285	M20	147	285	20	125	114	10

METAL ANCHORS

Throughbolt Anchor MTH

zinc-plated, ETA-Approval for uncracked concrete, Opt.7

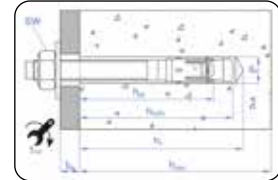


Type Ø/Length	Art.No.	Thread (mm) d ₁	Fixing Thickness (mm) t	Length (mm) l	Drillbit-Ø (mm) d ₂	Drilling Depth (mm) h ₁	Setting Depth (mm) h	Q.ty/Box
6 x 60*	AH06060	M6	2	60	6	55	49,5	200
6 x 70*	AH06070	M6	12	70	6	55	49,5	200
6 x 80*	AH06080	M6	22	80	6	55	49,5	200
6 x 90*	AH06090	M6	32	90	6	55	49,5	200
8 x 60	AH08060	M8	3	60	8	50	50	100
8 x 75	AH08075	M8	5	75	8	65	59,5	100
8 x 90	AH08090	M8	20	90	8	65	59,5	100
8 x 100	AH08100	M8	30	100	8	65	59,5	100
8 x 115	AH08115	M8	45	115	8	65	59,5	100
8 x 120	AH08120	M8	50	120	8	65	59,5	100
8 x 130	AH08130	M8	60	130	8	65	59,5	100
8 x 155	AH08155	M8	85	155	8	65	59,5	100
10 x 70	AH10070	M10	3	70	10	60	54	100
10 x 80	AH10080	M10	13	80	10	60	54	100
10 x 90	AH10090	M10	10	90	10	75	66,5	100
10 x 100	AH10100	M10	20	100	10	75	66,5	100
10 x 120	AH10120	M10	40	120	10	75	66,5	50
10 x 140	AH10140	M10	60	140	10	75	66,5	50
10 x 150	AH10150	M10	70	150	10	75	66,5	50
10 x 160	AH10160	M10	80	160	10	75	66,5	50
10 x 170	AH10170	M10	90	170	10	75	66,5	50
10 x 210	AH10210	M10	130	210	10	75	66,5	50
10 x 230	AH10230	M10	150	230	10	75	66,5	50
12 x 90	AH12090	M12	13	90	12	70	60	50
12 x 100	AH12100	M12	8	100	12	85	77	50
12 x 110	AH12110	M12	18	110	12	85	77	50
12 x 120	AH12120	M12	28	120	12	85	77	50
12 x 130	AH12130	M12	38	130	12	85	77	50
12 x 140	AH12140	M12	48	140	12	85	77	50
12 x 160	AH12160	M12	68	160	12	85	77	50
12 x 180	AH12180	M12	88	180	12	85	77	50
12 x 200	AH12200	M12	108	200	12	85	77	50
12 x 220	AH12220	M12	128	220	12	85	77	25
12 x 250	AH12250	M12	158	250	12	85	77	25
14 x 120	AH14120	M14	12	120	14	100	91	25
14 x 145	AH14145	M14	37	145	14	100	91	25
14 x 170	AH14170	M14	62	170	14	100	91	25
14 x 220	AH14220	M14	112	220	14	100	91	25
14 x 250	AH14250	M14	142	250	14	100	91	25
16 x 125	AH16125	M16	3	125	16	110	103,5	25
16 x 145	AH16145	M16	23	145	16	110	103,5	25
16 x 170	AH16170	M16	48	170	16	110	103,5	25
16 x 220	AH16220	M16	98	220	16	110	103,5	25
16 x 250	AH16250	M16	128	250	16	110	103,5	25
16 x 280	AH16280	M16	158	280	16	110	103,5	25
20 x 170	AH20170	M20	23	170	20	135	125	20
20 x 220	AH20220	M20	73	220	20	135	125	20
20 x 270	AH20270	M20	123	270	20	135	125	20

* Non-approved dimension for fire protection

Throughbolt Anchor MTH-A4

A4 stainless steel, ETA-Approval for uncracked concrete, Opt.7



Type Ø/Length	Art.No.	Thread (mm) d ₁	Fixing Thickness (mm) t	Length (mm) l	Drillbit-Ø (mm) d ₂	Drilling Depth (mm) h ₂	Setting Depth (mm) h	Q.ty/Box
6 x 60*	MIA406060	M6	2	60	6	55	49,5	200
6 x 80*	MIA406080	M6	22	80	6	55	49,5	200
8 x 50**	MIA408050	M8	4	50	8	40	35	100
8 x 75	MIA408075	M8	5	75	8	65	59,5	100
8 x 90	MIA408090	M8	20	90	8	65	59,5	100
8 x 115	MIA408115	M8	45	115	8	65	59,5	100
10x70	MIA410070	M10	3	70	10	60	53,5	100
10 x 90	MIA410090	M10	10	90	10	75	66,5	100
10 x 120	MIA410120	M10	40	120	10	75	66,5	50
10 x 150	MIA410150	M10	70	150	10	75	66,5	50
12 x 75**	MIA412075	M12	5	75	12	60	55	50
12 x 90	MIA412090	M12	13	90	12	70	62	50
12 x 110	MIA412110	M12	18	110	12	85	77	50
12 x 140	MIA412140	M12	48	140	12	85	77	50
16 x 90**	MIA416090	M16	4	90	16	75	69	25
16 x 145	MIA416145	M16	23	145	16	110	103,5	25
16 x 170	MIA416170	M16	48	170	16	110	103,5	25
20 x 120**	MIA420120	M20	5	120	20	105	93	20
20 x 170	MIA420170	M20	23	170	20	135	125	20
20 x 220	MIA420220	M20	73	220	20	135	125	20

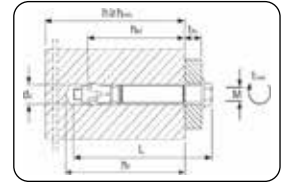
* Non-approved dimension for fire protection

** not part of the approval

METAL ANCHORS

Heavy Duty Anchor with hexagon head

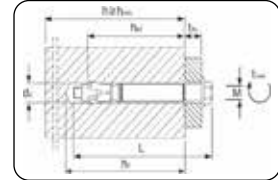
zinc plated, ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Thread (mm) d ₁	Fixing Thickness (mm) t	Length (mm) l	Drillbit-Ø (mm) d ₂	Q.ty/Box
SZ-S 10/0	14205301	M 10	0	91	15	25
SZ-S 10/15	14215301	M 10	15	106	15	25
SZ-S 10/25	14220301	M 10	25	116	15	25
SZ-S 10/45	14225301	M 10	45	136	15	25
SZ-S 10/95	14240301	M 10	95	186	15	25
SZ-S 12/0	14305301	M 12	0	107	18	20
SZ-S 12/10	14310301	M 12	10	117	18	20
SZ-S 12/20	14315301	M 12	20	127	18	20
SZ-S 12/40	14325301	M 12	40	147	18	20
SZ-S 12/70	14335301	M 12	70	177	18	20
SZ-S 16/0	14505301	M 16	0	130	24	10
SZ-S 16/20	14515301	M 16	20	150	24	10
SZ-S 16/50	14525301	M 16	50	180	24	10
SZ-S 20/10	14610301	M 20	10	172	28	10
SZ-S 20/30	14615301	M 20	30	192	28	5
SZ-S 20/60	14625301	M 20	60	222	28	5
SZ-S 20/100	14630301	M 20	100	262	28	5
SZ-S 24/10	14710301	M 24	10	212	32	5
SZ-S 24/30	14715301	M 24	30	232	32	5
SZ-S 24/60	14725301	M 24	60	262	32	5

Heavy Duty Anchor with threaded bolt and nut

zinc plated, ETA-Approval for cracked & uncracked concrete, Opt. 1

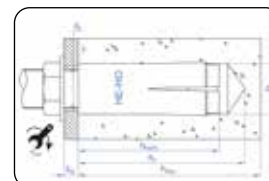


Type	Art.No.	Thread (mm) d ₁	Fixing Thickness (mm) t	Length (mm) l	Drillbit-Ø (mm) d ₂	Q.ty/Box
SZ-B 10/0	16205301	M 10	0	96	15	25
SZ-B 10/15	16215301	M 10	15	111	15	25
SZ-B 10/25	16220301	M 10	25	121	15	25
SZ-B 10/45	16225301	M 10	45	141	15	25
SZ-B 10/95	16240301	M 10	95	191	15	25
SZ-B 12/0	16305301	M 12	0	112	18	20
SZ-B 12/10	16310301	M 12	10	122	18	20
SZ-B 12/20	16315301	M 12	20	132	18	20
SZ-B 12/40	16325301	M 12	40	152	18	20
SZ-B 12/70	16335301	M 12	70	182	18	20
SZ-B 16/0	16505301	M 16	0	137	24	10
SZ-B 16/20	16515301	M 16	20	157	24	10
SZ-B 16/50	16525301	M 16	50	187	24	10
SZ-B 20/10	16610301	M 20	10	181	28	10
SZ-B 20/30	16615301	M 20	30	201	28	5
SZ-B 20/60	16625301	M 20	60	231	28	5
SZ-B 20/100	16630301	M 20	100	271	28	5
SZ-B 24/10	16710301	M 24	10	217	32	5
SZ-B 24/30	16715301	M 24	30	237	32	5
SZ-B 24/60	16725301	M 24	60	267	32	5

METAL ANCHORS

Drop in Anchor HE-HO

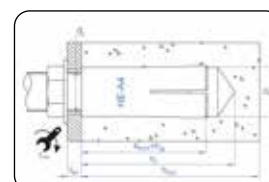
zinc plated, ETA-Approval Opt.7
with and without collar available



Type Ø/Length	Art.No.	Thread (mm) d _t	Length (mm) l	Thread length (mm) l _t	Drillbit-Ø (mm) d _d	Drilling Depth (mm) h _d	Q.ty/Box
6 x 25	HEHOM06	M6	25	11,5	8	27	100
8 x 30	HEHOM08	M8	30	13,5	10	33	100
10 x 40	HEHOM10	M10	40	18,5	12	43	50
12 x 50	HEHOM12	M12	50	23,0	15	54	50
16 x 65	HEHOM16	M16	65	28,5	20	70	25
20 x 80	HEHOM20	M20	80	38,0	25	86	25

Drop in Anchor HE-A4

A4 stainless steel, ETA-Approval (for non-structural applications)
with and without collar



Type Ø/Length	Art.No.	Thread (mm) d _t	Length (mm) l	Thread length (mm) l _t	Drillbit-Ø (mm) d _d	Drilling Depth (mm) h _d	Q.ty/Box
6 x 25	HEA4M06	M6	25	11,5	8	27	100
8 x 30	HEA4M08	M8	30	13,5	10	33	100
10 x 40	HEA4M10	M10	40	18,5	12	43	50
12 x 50	HEA4M12	M12	50	23,0	15	54	50
16 x 65	HEA4M16	M16	65	28,5	20	70	25
20 x 80	HEA4M20	M20	80	38,0	25	86	25

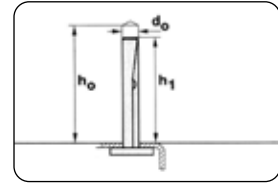
Setting Tool



Dimensions	Art.No.	Q.ty/Box
M6	SW0006	1
M8	SW0008	1
M10	SW0010	1
M12	SW0012	1
M16	SW0016	1
M20	SW0020	1

Ceiling Nail GDN

zinc plated, ETA-Approval for multiple use for non-structural applications in concrete



Type	Art.No.	Drillbit-Ø (mm) d_s	Length (mm)	Drilling Depth (mm) h_s	Setting Depth (mm) h_1	Q.ty/Box
GDN 6/40	GDN640	6	40	40	30	100
GDN 6/70	GDN670	6	70	40	30	100

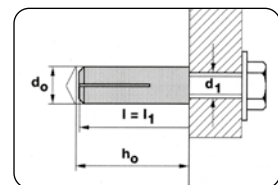
Ceiling Anchor MND



MND 6/45	MND645	6	45	48	32	100
MND 6/75	MNA675	6	75	75	32	100

stainless steel - on request

Brass Anchor MS



Type	Art.No.	Thread (mm) d_s	Setting Depth (mm) l_1	Length (mm)	Drillbit-Ø (mm) d_s	Drilling Depth (mm) h_s	Q.ty/Box
MS 6	MS0006	M 6	22	22	8	25	100
MS 8	MS0008	M 8	27,5	27,5	11	32	100
MS 10	MS0010	M 10	32	32	13	37	100
MS 12	MS0012	M 12	38	38	16	43	100
MS 16	MS0016	M 16	45	45	20	48	25

CONCRETE SCREW TSM

Application Examples



Fastening piping

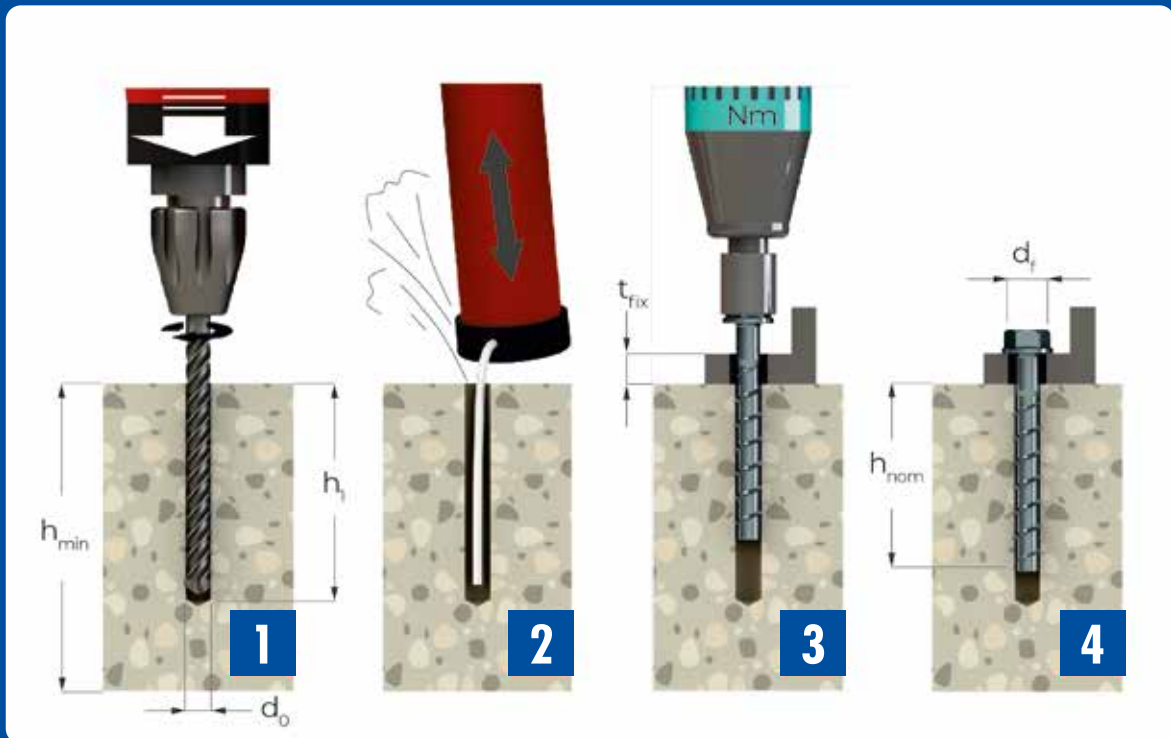


Fastening ventilation ducts



Fastening railings

Installation Instructions for Concrete Screw TSM High-Performance



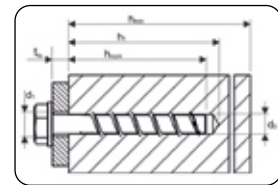
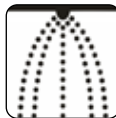
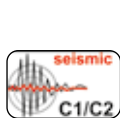
This is how simple the installation works:

- 1** Create borehole
- 2** Thoroughly clean borehole
- 3** Screw in concrete screw
- 4** The screw head must rest completely on the attachment

TSM - hexagon head



Hexagon head and pressed-on washer, steel - zinc flake coated
ETA-Approval for cracked & uncracked concrete, Opt. 1



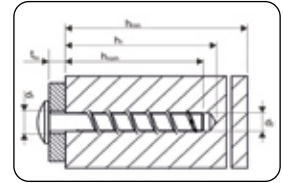
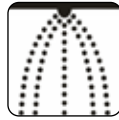
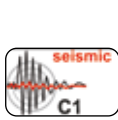
Type	Art.No.	Drilling Depth (mm) $h_{d1} / h_{d2} / h_{d3}$	Setting Depth (mm) $h_{set1} / h_{set2} / h_{set3}$	Depth of drill hole (mm) $t_{h1} / t_{h2} / t_{h3}$	Q.ty/Box
TSM 5x40 SW10 ZFC	400 005 040	40mm / - / -	35mm / - / -	5mm / - / -	100
TSM 5x50 SW10 ZFC	400 005 050	40mm / - / -	35mm / - / -	15mm / - / -	100
TSM 5x60 SW10 ZFC	400 005 060	40mm / - / -	35mm / - / -	25mm / - / -	100
TSM 6x40 SW13 ZFC	400 006 040	40mm / - / -	35mm / - / -	5mm / - / -	100
TSM 6x50 SW13 ZFC	400 006 050	40mm / 45mm / -	35mm / 40mm / -	15mm / 10mm / -	100
TSM 6x60 SW13 ZFC	400 006 060	40mm / 45mm / 60mm	35mm / 40mm / 55mm	25mm / 20mm / 5mm	100
TSM 6x80 SW13 ZFC	400 006 080	40mm / 45mm / 60mm	35mm / 40mm / 55mm	45mm / 40mm / 25mm	100
TSM 6x100 SW13 ZFC	400 006 100	40mm / 45mm / 60mm	35mm / 40mm / 55mm	65mm / 60mm / 45mm	100
TSM 8x50 SW13 ZFC	400 008 050	55mm / - / -	45mm / - / -	5mm / - / -	50
TSM 8x60 SW13 ZFC	400 008 060	55mm / 65mm / -	45mm / 55mm / -	15mm / 5mm / -	50
TSM 8x70 SW13 ZFC	400 008 070	55mm / 65mm / 75mm	45mm / 55mm / 65mm	25mm / 15mm / 5mm	50
TSM 8x80 SW13 ZFC	400 008 080	55mm / 65mm / 75mm	45mm / 55mm / 65mm	35mm / 25mm / 15mm	50
TSM 8x90 SW13 ZFC	400 008 090	55mm / 65mm / 75mm	45mm / 55mm / 65mm	45mm / 35mm / 25mm	50
TSM 8x100 SW13 ZFC	400 008 100	55mm / 65mm / 75mm	45mm / 55mm / 65mm	55mm / 45mm / 35mm	50
TSM 8x120 SW13 ZFC	400 008 120	55mm / 65mm / 75mm	45mm / 55mm / 65mm	75mm / 65mm / 55mm	50
TSM 8x140 SW13 ZFC	400 008 140	55mm / 65mm / 75mm	45mm / 55mm / 65mm	95mm / 85mm / 75mm	50
TSM 10x60 SW 15 ZFC	400 010 060	65mm / - / -	55mm / - / -	5mm / - / -	50
TSM 10x70 SW15 ZFC	400 010 070	65mm / - / -	55mm / - / -	15mm / - / -	50
TSM 10x80 SW15 ZFC	400 010 080	65mm / 85mm / -	55mm / 75mm / -	25mm / 5mm / -	50
TSM 10x90 SW15 ZFC	400 010 090	65mm / 85mm / 95mm	55mm / 75mm / 85mm	35mm / 15mm / 5mm	50
TSM 10x100 SW15 ZFC	400 010 100	65mm / 85mm / 95mm	55mm / 75mm / 85mm	45mm / 25mm / 15mm	50
TSM 10x120 SW15 ZFC	400 010 120	65mm / 85mm / 95mm	55mm / 75mm / 85mm	65mm / 45mm / 35mm	50
TSM 10x140 SW15 ZFC	400 010 140	65mm / 85mm / 95mm	55mm / 75mm / 85mm	85mm / 65mm / 55mm	50
TSM 10x150 SW15 ZFC	400 010 150	65mm / 85mm / 95mm	55mm / 75mm / 85mm	95mm / 75mm / 65mm	50
TSM 10x160 SW15 ZFC	400 010 160	65mm / 85mm / 95mm	55mm / 75mm / 85mm	105mm / 85mm / 75mm	50
TSM 10x180 SW15 ZFC	400 010 180	65mm / 85mm / 95mm	55mm / 75mm / 85mm	125mm / 105mm / 95mm	25
TSM 10x200 SW15 ZFC	400 010 200	65mm / 85mm / 95mm	55mm / 75mm / 85mm	145mm / 125mm / 115mm	25
TSM 10x240 SW15 ZFC	400 010 240	65mm / 85mm / 95mm	55mm / 75mm / 85mm	185mm / 165mm / 155mm	25
TSM 10x280 SW15 ZFC	400 010 280	65mm / 85mm / 95mm	55mm / 75mm / 85mm	225mm / 205mm / 195mm	25
TSM 10x320 SW15 ZFC	400 010 320	65mm / 85mm / 95mm	55mm / 75mm / 85mm	265mm / 245mm / 235mm	25
TSM 10x360 SW15 ZFC	400 010 360	65mm / 85mm / 95mm	55mm / 75mm / 85mm	305mm / 285mm / 275mm	25
TSM 10x400 SW15 ZFC	400 010 400	65mm / 85mm / 95mm	55mm / 75mm / 85mm	345mm / 325mm / 315mm	25
TSM 12x80 SW17 ZFC	400 012 080	75mm / - / -	65mm / - / -	15mm / - / -	25
TSM 12x110 SW17 ZFC	400 012 110	75mm / 95mm / 110mm	65mm / 85mm / 100mm	45mm / 25mm / 10mm	25
TSM 12x130 SW17 ZFC	400 012 130	75mm / 95mm / 110mm	65mm / 85mm / 100mm	65mm / 45mm / 30mm	25
TSM 12x150 SW17 ZFC	400 012 150	75mm / 95mm / 110mm	65mm / 85mm / 100mm	85mm / 65mm / 50mm	25
TSM 14x80 SW21 ZFC	400 014 080	85mm / - / -	75mm / - / -	5mm / - / -	25
TSM 14x110 SW21 ZFC	400 014 110	85mm / 110mm / -	75mm / 100mm / -	35mm / 10mm / -	25
TSM 14x130 SW21 ZFC	400 014 130	85mm / 110mm / 125mm	75mm / 100mm / 115mm	55mm / 30mm / 15mm	25
TSM 14x150 SW21 ZFC	400 014 150	85mm / 110mm / 125mm	75mm / 100mm / 115mm	75mm / 50mm / 35mm	25

CONCRETE SCREW TSM

TSM - Panhead



Panhead and TX internal drive, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1

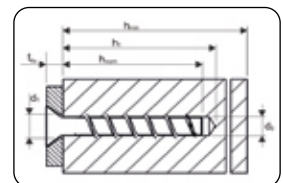
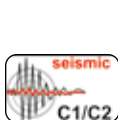


Type	Art.No.	Drilling Depth (mm) h ₁ / h ₂ / h ₃	Setting Depth (mm) h _{nom1} / h _{nom2} / h _{nom3}	Depth of drill hole (mm) t ₁ / t ₂ / t ₃	Q.ty/Box
TSM 5x40 P VZ30	322 005 040	40mm / - / -	35mm / - / -	5mm / - / -	100
TSM 5x50 P VZ30	322 005 050	40mm / - / -	35mm / - / -	15mm / - / -	100
TSM 5x60 P VZ30	322 005 060	40mm / - / -	35mm / - / -	25mm / - / -	100
TSM 6x40 P VZ30	322 006 040	40mm / - / -	35mm / - / -	5mm / - / -	100
TSM 6x50 P VZ30	322 006 050	40mm / 45mm / -	35mm / 40mm / -	15mm / 10mm / -	100
TSM 6x60 P VZ30	322 006 060	40mm / 45mm / 60mm	35mm / 40mm / 55mm	25mm / 20mm / 5mm	100
TSM 6x80 P VZ30	322 006 080	40mm / 45mm / 60mm	35mm / 40mm / 55mm	45mm / 40mm / 25mm	100
TSM 6x100 P VZ30	322 006 100	40mm / 45mm / 60mm	35mm / 40mm / 55mm	65mm / 60mm / 45mm	100

TSM - Countersunk head



Countersunk head with multipont drive, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) h ₁ / h ₂ / h ₃	Setting Depth (mm) h _{nom1} / h _{nom2} / h _{nom3}	Depth of drill hole (mm) t ₁ / t ₂ / t ₃	Q.ty/Box
TSM 5x40 C VZ25	311 005 040	40mm / - / -	35mm / - / -	5mm / - / -	100
TSM 5x50 C VZ25	311 005 050	40mm / - / -	35mm / - / -	15mm / - / -	100
TSM 5x60 C VZ25	311 005 060	40mm / - / -	35mm / - / -	25mm / - / -	100
TSM 6x40 C VZ30	311 006 040	40mm / - / -	35mm / - / -	5mm / - / -	100
TSM 6x50 C VZ30	311 006 050	40mm / 45mm / -	35mm / 40mm / -	15mm / 10mm / -	100
TSM 6x60 C VZ30	311 006 060	40mm / 45mm / 60mm	35mm / 40mm / 55mm	25mm / 20mm / 5mm	100
TSM 6x80 C VZ30	311 006 080	40mm / 45mm / 60mm	35mm / 40mm / 55mm	45mm / 40mm / 25mm	100
TSM 6x100 C VZ30	311 006 100	40mm / 45mm / 60mm	35mm / 40mm / 55mm	65mm / 60mm / 45mm	100
TSM 6x120 C VZ30	311 006 120	40mm / 45mm / 60mm	35mm / 40mm / 55mm	85mm / 80mm / 65mm	100
TSM 6x140 C VZ30	311 006 140	40mm / 45mm / 60mm	35mm / 40mm / 55mm	105mm / 100mm / 85mm	100
TSM 8x80 C VZ40	311 008 080	55mm / 65mm / 75mm	45mm / 55mm / 65mm	35mm / 25mm / 15mm	50
TSM 8x100 C VZ40	311 008 100	55mm / 65mm / 75mm	45mm / 55mm / 65mm	55mm / 45mm / 35mm	50
TSM 8x120 C VZ40	311 008 120	55mm / 65mm / 75mm	45mm / 55mm / 65mm	75mm / 65mm / 55mm	50
TSM 10x90 C VZ50	311 010 090	65mm / 85mm / 95mm	55mm / 75mm / 85mm	35mm / 15mm / 5mm	50
TSM 10x100 C VZ50	311 010 100	65mm / 85mm / 95mm	55mm / 75mm / 85mm	45mm / 25mm / 15mm	50
TSM 10x120 C VZ50	311 010 120	65mm / 85mm / 95mm	55mm / 75mm / 85mm	65mm / 45mm / 35mm	50

CONCRETE SCREW TSM

TSM - metric internal thread



with metric internal thread M8/M10, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) $h_{d1}/h_{d2}/h_{d3}$	Setting Depth (mm) $h_{nom1}/h_{nom2}/h_{nom3}$	Depth of drill hole (mm) $t_{fix1}/t_{fix2}/t_{fix3}$	Q.ty/Box
TSM 6x35 K IM 8/10	344 006 035	40mm / - / -	35mm / - / -	- / - / -	50
TSM 6x55 IM 8/10	344 006 055	40mm / 45mm / 65mm	35mm / 40mm / 55mm	20mm / 15mm / -	50

TSM - metric connection thread



with metric connection thread, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) $h_{d1}/h_{d2}/h_{d3}$	Setting Depth (mm) $h_{nom1}/h_{nom2}/h_{nom3}$	Depth of drill hole (mm) $t_{fix1}/t_{fix2}/t_{fix3}$	Q.ty/Box
TSM 8x105 M10x30 SW7	366 008 105	55mm / 65mm / 75mm	45mm / 55mm / 65mm	39mm / 29mm / 19mm	50
TSM 10x120 M12x20 SW9	366 010 120	65mm / 85mm / 95mm	55mm / 75mm / 85mm	40mm / 20mm / 10mm	50

CONCRETE SCREW TSM

TSM - metric external thread M8



with hexagonal drive and metric external thread M8, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) $h_{d1} / h_{d2} / h_{d3}$	Setting Depth (mm) $h_{s1} / h_{s2} / h_{s3}$	Depth of drill hole (mm) $t_{d1} / t_{d2} / t_{d3}$	Q.ty/Box
TSM 6x35 K M8-16 SW10	355 006 035	40mm / - / -	35mm / - / -	- / - / -	100
TSM 6x55 M8-16 SW10	355 006 055	40mm / 45mm / 60mm	35mm / 40mm / 55mm	20mm / 15mm / -	100
TSM 6x75 M8-16 SW10	355 006 075	40mm / 45mm / 60mm	35mm / 40mm / 55mm	40mm / 35mm / 20mm	100
TSM 6x95 M8-16 SW10	355 006 095	40mm / 45mm / 60mm	35mm / 40mm / 55mm	60mm / 55mm / 40mm	100
TSM 6x135 M8-16 SW10	355 006 135	40mm / 45mm / 60mm	35mm / 40mm / 55mm	100mm / 95mm / 80mm	100
TSM 6x155 M8-16 SW10	355 006 155	40mm / 45mm / 60mm	35mm / 40mm / 55mm	120mm / 115mm / 100mm	100
TSM 6x175 M8-16 SW10	355 006 175	40mm / 45mm / 60mm	35mm / 40mm / 55mm	140mm / 135mm / 120mm	100
TSM 6x195 M8-16 SW10	355 006 195	40mm / 45mm / 60mm	35mm / 40mm / 55mm	160mm / 155mm / 140mm	100

TSM - metric external thread M10



with hexagonal drive and metric external thread M10, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) $h_{d1} / h_{d2} / h_{d3}$	Setting Depth (mm) $h_{s1} / h_{s2} / h_{s3}$	Depth of drill hole (mm) $t_{d1} / t_{d2} / t_{d3}$	Q.ty/Box
TSM 6x40 M10-20 SW13	355 206 040	40 mm / 45 mm / -	35 mm / 40 mm / -	5 mm / - / -	100

TSM L - panhead

with panhead and TX internal drive, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) h_{01}	Setting Depth (mm) h_{nom1}	Depth of drill hole (mm) t_{dr1}	Q.ty/Box
TSM L 6x28 Liko VZ30	205 060 280	28mm	25mm	3mm	100

TSM L - large panhead

with large panhead and TX internal drive, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) h_{t1} / h_{t2}	Setting Depth (mm) h_{nom1} / h_{nom2}	Depth of drill hole (mm) t_{dr1} / t_{dr2}	Q.ty/Box
TSM L 6x28 LP VZ30	205 060 281	28mm	25mm	3mm	100
TSM L 6x40 LP VZ30	205 060 401	28mm / 38mm	25mm / 35mm	15mm / 5mm	100

TSM L - metric connection thread M6

with metric connection thread M6, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) h_{01}	Setting Depth (mm) h_{nom1}	Depth of drill hole (mm) t_{dr1}	Q.ty/Box
TSM L 6x28 M6 SW10	205 060 282	28mm	25mm	3mm	100

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TSM L - metric connection thread M8



with metric connection thread M8, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) h_{d1}	Setting Depth (mm) h_{sont1}	Depth of drill hole (mm) t_{fs1}	Q.ty/Box
TSM L 6x28 M8 VZ25	205 060 283	28mm	25mm	3mm	100

TSM L - metric internal thread



with metric internal thread M8/M10, steel, zinc plated
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) $h_{1,1} / h_{1,2}$	Setting Depth (mm) h_{sont1} / h_{sont2}	Depth of drill hole (mm) t_{fs1} / t_{fs2}	Q.ty/Box
TSM L 6x40 M8/10 SW13	205 060 404	28mm / 38mm	25mm / 35mm	15mm / 5mm	50

TSM - Multiground - metric internal thread

Screw with internal thread for various substrates, steel, zinc plated
ETA approval for multiple fastenings in cracked & non-cracked concrete



Instruction Video

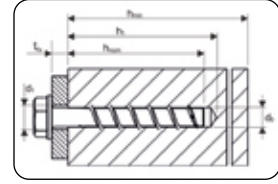
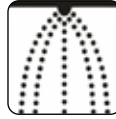
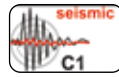


Type	Art.No.	Drilling Depth (mm) h_1	Setting Depth (mm) h_{sont}	Length internal thread (mm)	Q.ty/Box
TSM M 8x40 IM 6x10 VZ50	345 008 040	50mm	40mm	10mm	100
TSM M 10x40 IM 8x10 VZ55	345 010 040	50mm	40mm	10mm	100
TSM M 12x40 IM 10x10 VZ60	345 012 040	50mm	40mm	10mm	100

TSM - hexagon head A4



Hexagon head and pressed-on washer, stainless steel LT A4
ETA-Approval for cracked & uncracked concrete, Opt. 1

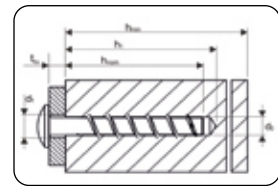
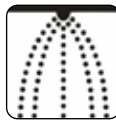
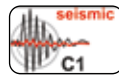


Type	Art.No.	Drilling Depth (mm) $h_{01} / h_{02} / h_{03}$	Setting Depth (mm) $h_{nom1} / h_{nom2} / h_{nom3}$	Depth of drill hole (mm) $t_{fix1} / t_{fix2} / t_{fix3}$	Q.ty/Box
TSM 6x50 SW13 LT A4	700 006 050	40mm / 50mm / -	35mm / 45mm / -	15mm / 5mm / -	100
TSM 6x60 SW13 LT A4	700 006 060	40mm / 50mm / 60mm	35mm / 45mm / 55mm	25mm / 15mm / 5mm	100
TSM 8x70 SW13 LT A4	700 008 070	55mm / 65mm / 75mm	45mm / 55mm / 65mm	25mm / 15mm / 5mm	50
TSM 8x80 SW13 LT A4	700 008 080	55mm / 65mm / 75mm	45mm / 55mm / 65mm	35mm / 25mm / 15mm	50
TSM 10x90 SW15 LT A4	700 010 090	65mm / 85mm / 95mm	55mm / 75mm / 85mm	35mm / 15mm / 5mm	50
TSM 10x100 SW15 LT A4	700 010 100	65mm / 85mm / 95mm	55mm / 75mm / 85mm	45mm / 25mm / 15mm	50
TSM 10x120 SW15 LT A4	700 010 120	65mm / 85mm / 95mm	55mm / 75mm / 85mm	65mm / 45mm / 35mm	50

TSM - Panhead A4



Panhead with TX internal drive, stainless steel LT A4
ETA-Approval for cracked & uncracked concrete, Opt. 1



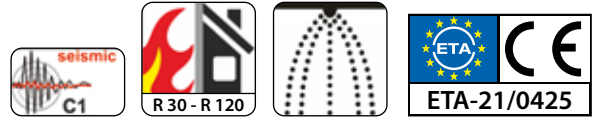
Type	Art.No.	Drilling Depth (mm) $h_{01} / h_{02} / h_{03}$	Setting Depth (mm) $h_{nom1} / h_{nom2} / h_{nom3}$	Depth of drill hole (mm) $t_{fix1} / t_{fix2} / t_{fix3}$	Q.ty/Box
TSM 6x50 P VZ30 LT A4	722 006 050	40mm / 50mm / -	35mm / 45mm / -	15mm / 5mm / -	100
TSM 6x60 P VZ30 LT A4	722 006 060	40mm / 50mm / 60mm	35mm / 45mm / 55mm	25mm / 15mm / 5mm	100
TSM 6x80 P VZ30 LT A4	722 006 080	40mm / 50mm / 60mm	35mm / 45mm / 55mm	45mm / 35mm / 25mm	100
TSM 6x100 P VZ30 LT A4	722 006 100	40mm / 50mm / 60mm	35mm / 45mm / 55mm	65mm / 55mm / 45mm	100

CONCRETE SCREW TSM A4

TSM - Countersunk head A4



Countersunk head with multipoint drive, stainless steel LT A4
ETA-Approval for cracked & uncracked concrete, Opt. 1

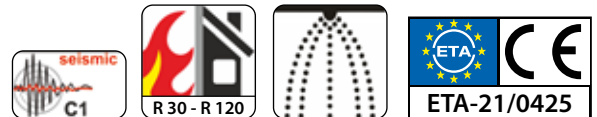


Type	Art.No.	Drilling Depth (mm) $h_{d1}/h_{d2}/h_{d3}$	Setting Depth (mm) $h_{s1}/h_{s2}/h_{s3}$	Depth of drill hole (mm) $t_{d1}/t_{d2}/t_{d3}$	Q.ty/Box
TSM 6x50 C VZ30 LT A4	711 006 050	40mm / 50mm / -	35mm / 45mm / -	15mm / 5mm / -	100
TSM 6x65 C VZ30 LT A4	711 006 065	40mm / 50mm / 60mm	35mm / 45mm / 55mm	30mm / 20mm / 10mm	100
TSM 6x85 C VZ30 LT A4	711 006 085	40mm / 50mm / 60mm	35mm / 45mm / 55mm	50mm / 40mm / 30mm	100
TSM 6x105 C VZ30 LT A4	711 006 105	40mm / 50mm / 60mm	35mm / 45mm / 55mm	70mm / 60mm / 50mm	100
TSM 8x80 C VZ40 LT A4	711 008 080	55mm / 65mm / 75mm	45mm / 55mm / 65mm	35mm / 25mm / 15mm	50
TSM 8x100 C VZ40 LT A4	711 008 100	55mm / 65mm / 75mm	45mm / 55mm / 65mm	55mm / 45mm / 35mm	50
TSM 8x120 C VZ40 LT A4	711 008 120	55mm / 65mm / 75mm	45mm / 55mm / 65mm	75mm / 65mm / 55mm	50
TSM 10x90 C VZ50 LT A4	711 010 090	65mm / 85mm / 95mm	55mm / 75mm / 85mm	35mm / 15mm / 5mm	50
TSM 10x100 C VZ50 LT A4	711 010 100	65mm / 85mm / 95mm	55mm / 75mm / 85mm	45mm / 25mm / 15mm	50
TSM 10x120 C VZ50 LT A4	711 010 120	65mm / 85mm / 95mm	55mm / 75mm / 85mm	65mm / 45mm / 35mm	50

TSM - metric internal thread A4



with metric internal thread M8/M10, stainless steel LT A4
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) $h_{d1}/h_{d2}/h_{d3}$	Setting Depth (mm) $h_{s1}/h_{s2}/h_{s3}$	Depth of drill hole (mm) $t_{d1}/t_{d2}/t_{d3}$	Q.ty/Box
TSM 6x45 K IM 8/10 LT A4	744 006 045	50mm / - / -	45mm / - / -	/ - / -	50

TSM - metric connection thread A4

with metric connection thread, stainless steel A4
ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Drilling Depth (mm) $h_{d1}/h_{d2}/h_{d3}$	Setting Depth (mm) $h_{s1}/h_{s2}/h_{s3}$	Depth of drill hole (mm) $t_{d1}/t_{d2}/t_{d3}$	Q.ty/Box
TSM 8x105 M10x30 SW7 A4	866 008 105	55mm / 65mm / 75mm	45mm / 55mm / 65mm	39mm / 29mm / 19mm	50
TSM 10x140 M12x35 SW9 A4	866 010 140	65mm / 85mm / 95mm	55mm / 75mm / 85mm	59mm / 39mm / 29mm	50
TSM 10x160 M12x55 SW9 A4	866 010 160	65mm / 85mm / 95mm	55mm / 75mm / 85mm	79mm / 59mm / 49mm	50

Aerated concrete screw TSM PB



Hexagonal head and pressed on washer, steel, zinc plated

Type	Art.No.	Setting Depth (mm) h_{nom1}	Depth of drill hole (mm) t_{dr1}	Q.ty/Box
TSM PB 10x110 SW10	230 101 102	100mm	10mm	100
TSM PB10x160 SW10	230 101 602	100mm	60mm	100

Countersunk head with torx drive, steel, zinc plated



Type	Art.No.	Setting Depth (mm) h_{nom1}	Depth of drill hole (mm) t_{dr1}	Q.ty/Box
TSM PB 8x110 Seko VZ25	230 081 100	80mm	30mm	100
TSM PB 10x110 Seko VZ30	230 101 100	100mm	10mm	100
TSM PB 10x160 Seko VZ30	230 101 600	100mm	60mm	100

Panhead and multipoint drive, steel, zinc plated



Type	Art.No.	Setting Depth (mm) h_{nom1}	Depth of drill hole (mm) t_{dr1}	Q.ty/Box
TSM PB 8x80 Liko VZ30	230 080 801	80mm	-	100
TSM PB8x100 Liko VZ30	230 081 001	80mm	20mm	100

Asphalt screw TSM A



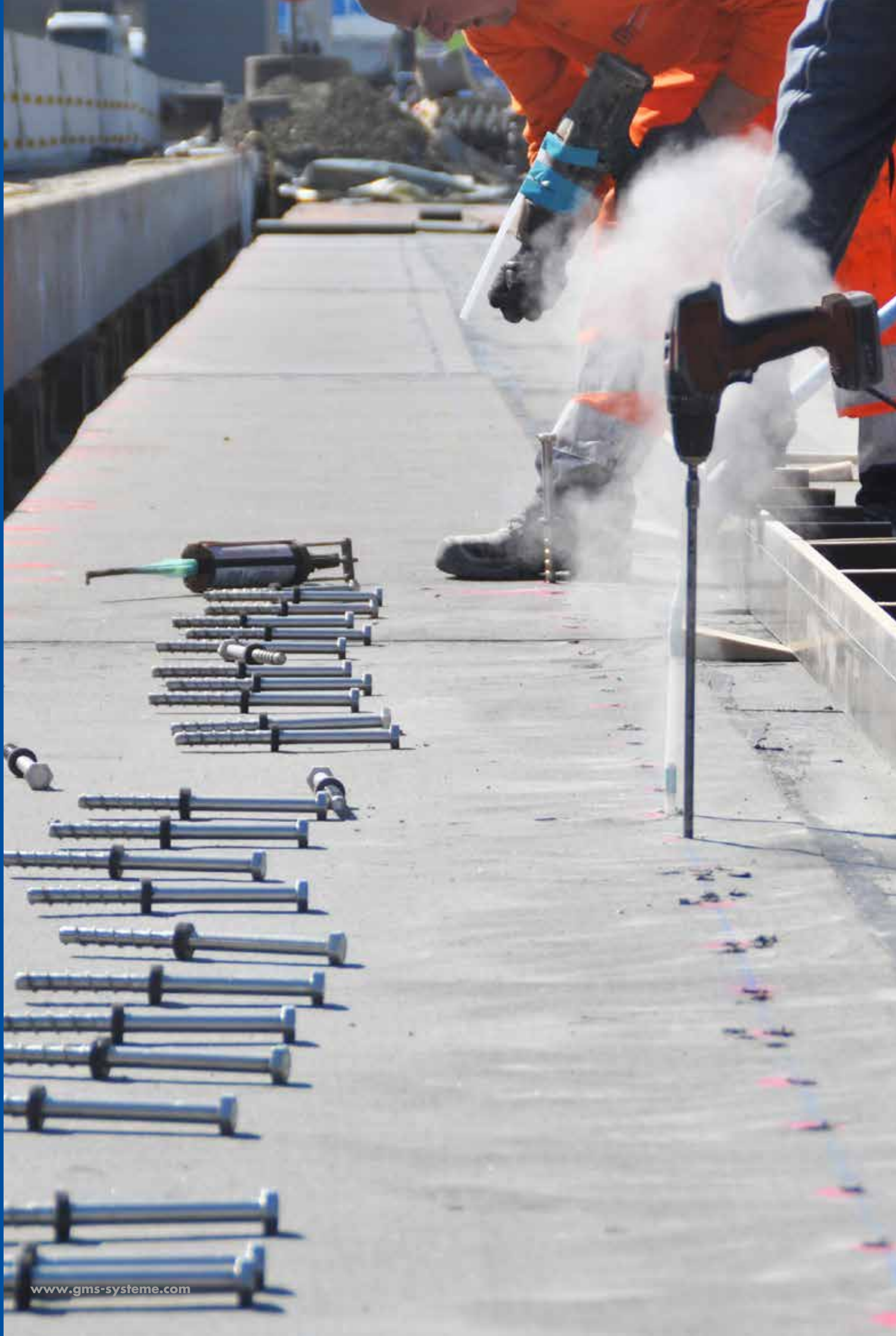
Steel, anti-corrosion coated KORR

Type	Art.No.	Drillbit-Ø (mm) d_s	Drilling Depth (mm) h_s	Setting Depth (mm) h_{nom}	Q.ty/Box
TSM A 16x100 IM10x20 SW12 KORR	202 161 001	16mm	110mm	100mm	50
TSM A 22x100 IM16x30 SW12 KORR	202 221 000	22mm	110mm	100mm	50
TSM A 22x155 IM16x30 SW12 KORR	202 221 551	22mm	165mm	155mm	40
Metric thread reducer M16/M12	500 000 014				25
Metric thread reducer M16/M10	500 000 015				25
Screw-in tool SW12	500 000 002				1

Accessories

Type	Art.No.	Q.ty/Box
Cartridge ATA 2004C, 585 ml	222 222 019	1
Mixing nozzle for ATA 2004C	222 223 002	1
Manual Adhesive Gun for ATA 2004C, 585 ml	222 222 014	1



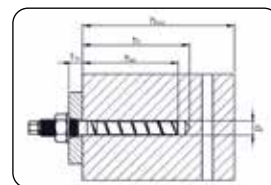


CRASH BARRIERS FASTENERS

GMS®

Adhesive screw anchor

for fastening crash barriers
steel, anti-corrosion coated, Korr Corrosivity category C5 high



Type	Art.No.	Drillbit-Ø (mm) d _s	Drilling Depth (mm) h _s	Setting Depth (mm) h _i	Max. thickness of fixture (mm) t _b	Q.ty/Box
TSM B 14x165 M16x35 SW 12	202141650	14mm	≥ 100mm	100-125mm	35mm	25
TSM B 16x190 M18x45 SW 13	202161900	16mm	≥ 100mm	100-160mm	60mm	25
TSM B 16x220 M18x45 SW 13	202162200	16mm	≥ 100mm	100-160mm	90mm	25

Accessories

Type	Art.No.	Q.ty/Box
Washer B16 50/18/4	TSMB07	100
Nut 14 M16 SW 24	TSMB02	100
Nut B16 M18 SW 27	TSMB03	100
Cartridge CF-T 300V, 410 ml	TSMB05	1
Mixing nozzle for CF-T300V	TSMB04	1
Manual Adhesive Gun for CF-T 300 V	TSMB06	1



Crash Barrier Anchor

steel 5.8 hot dip galvanised, with washer DIN 9021
incl. chemical capsule M16, Opt. 1



Type	Art.No.	Fixing Thickness (mm) t	Length (mm) l	Q.ty/Box
Anchor Stud M16x165	21507791	20	165	10
Chemical capsule Opt. 1	64201601	-	95	10



Crash Barrier Anchor Opt. 7 - on demand

steel 8.8 - on demand

CHEMICAL FIXING

GMS-Chemical Mortar V-Plus

ETA-Approval for cracked & uncracked concrete, Opt.1

Type / Contents	Art.No.	Q.ty/Box
300ml	BVM300	15
345ml	BVM345	15
400ml	BVM400	12
825ml	BVM825	5
Mixer	BVM000	1



GMS-Chemical Mortar Poly SF

ETA-Approval for masonry & uncracked concrete, Opt.7

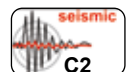
Type / Contents	Art.No.	Q.ty/Box
300ml	BPM300	15
345ml	BPM345	15
400ml	BPM400	12
825ml	BPM825	5
Mixer	BVM000	1



GMS-Chemical Mortar Epoxy

High performance chemical anchoring in concrete, lifetime 100 years
ETA-Approval for cracked & uncracked concrete, Opt.1

on demand



Manual Adhesive Guns

Type	Art.No.	Q.ty/Box
for >300ml cartridge, Power 26:1	749097	1
for 345ml cartridge „PRO“, Power 29:1	749108	1
for 400ml cartridge, Power 26:1	749101	1
for 825ml cartridge, Power 25:1	749114	1



Cordless „Batterie“ Guns für all sizes

on demand

Pneumatic Guns for all sizes

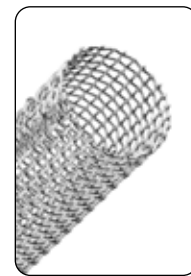
on demand

Threaded Sleeve for chemical mortar



Type	Art.No.	Thread	External-Ø (mm)	Lenght (mm)	Q.ty/Box
IHK-M6	IHKM06	M 6	8	45	10
IHK-M8	IHKM08	M 8	12	80	10
IHK-M10	IHKM10	M10	14	80	10
IHK-M12	IHKM12	M12	16	80	10

Metal Sleeves



Type	Art.No.	suitable for anchor rods	Q.ty/Roll	Q.ty/Box
SH 12x1000	S12100	M 6 / M 8	10	50
SH 16x1000	S16100	M 10	10	50
SH 22x1000	S22100	M 12 / M 16	5	25

PVC Sleeves



Type	Art.No.	suitable for anchor rods	Q.ty/Box
SH-K 12x50	S12500	M 8	50
SH-K 15x85	S15850	M 10 / M 12	20
SH-K 15x135	S15130	M 10 / M 12	20
SH-K 20x85	S20850	M 12 / M 16	10

Accessories



Type	Art.No.	Q.ty/Box
Blowpump	ABK010	1
Brush 12 mm	FBK012	1
Brush 18 mm	FBK018	1
Steel brush M10 Ø13 mm	DBK010	1
Steel brush M12 Ø16 mm	DBK012	1
Steel brush M16 Ø20 mm	DBK016	1
Steel brush M20 Ø25 mm	DBK020	1
Steel brush M14 Ø28 mm	DBK024	1



CHEMICAL FIXING

Chemical Capsule



ETA-Approval for cracked & uncracked concrete, Opt. 1



Type	Art.No.	Length (mm) l	Capsule Ø (mm) = h _c = h	Drilling-Ø (mm)	Q.ty/Box
VZ-P 8	64200801	85	9	10	10
VZ-P 10	64201001	90	11	12	10
VZ-P 12	64201201	95	13	14	10
VZ-P 16	64201601	95	17	18	10
VZ-P 20	64202001	145	17	22	10

Chemical Capsule



ETA-Approval for uncracked concrete, Opt. 7



Type	Art.No.	Length (mm) l	Drilling-Ø (mm) d _s	Setting Depth (mm) = h _s = h	Q.ty/Box
KVA 8	KVA008	80	10	80	10
KVA 10	KVA010	85	12	90	10
KVA 12	KVA012	95	14	110	10
KVA 14	KVA014	95	16	120	10
KVA 16	KVA016	95	18	125	10
KVA 20	KVA020	160	25	170	5
KVA 24	KVA024	190	28	210	5
KVA 30	KVA030	260	35	280	5

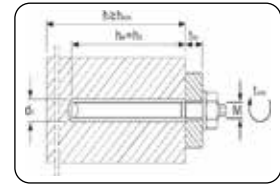
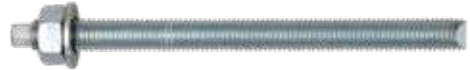
Hammer Capsule HPK



Type	Art.No.	Length (mm) l	Drilling (mm) d _s	Setting Depth (mm) = h _s = h	Q.ty/Box
HPK 10	HPK010	90	12	90	10
HPK 12	HPK012	110	14	110	10
HPK 16	HPK016	125	18	125	10
HPK 20	HPK020	170	24	170	5
HPK 24	HPK024	210	28	210	5

Anchor Stud - steel

steel 5.8



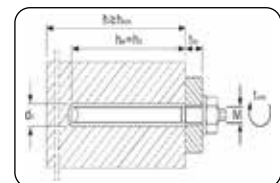
Type	Art.No.	Fixing Thickness (mm) †	Length (mm)	Q.ty/Box
ASTA M8x110	A8110G	20	110	10
ASTA M8x150	A8150G	60	150	10
ASTA M10x130	A1013G	30	130	10
ASTA M10x165	A1016G	65	165	10
ASTA M10x190	A1019G	90	190	10
ASTA M12x135	A1213G	10	135	10
ASTA M12x160	A1216G	35	160	10
ASTA M12x220	A1222G	95	220	10
ASTA M16x165	A1616G	20	165	10
ASTA M16x190	A1619G	45	190	10
ASTA M16x230	A1623G	85	230	10
ASTA M20x220	A2022G	20	220	10
ASTA M20x260	A2026G	100	260	10

Setting tool is included

* more lengths and steel qualities on request

Anchor Stud - hot dip galvanized

hot dip galvanized, steel 5.8



Type	Art.No.	Fixing Thickness (mm) †	Length (mm)	Q.ty/Box
ASTA M8x110	A8110F	20	110	10
ASTA M10x130	A1013F	30	130	10
ASTA M10x190	A1019F	90	190	10
ASTA M12x160	A1216F	35	160	10
ASTA M12x220	A1222F	95	220	10
ASTA M16x165	A1616F	20	165	10
ASTA M16x190	A1619F	45	190	10
ASTA M20x220	A2022F	20	220	10
ASTA M20x260	A2026F	60	260	10

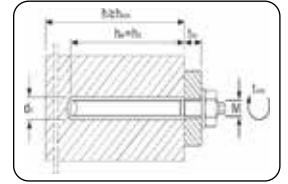
Setting tool is included

* more lengths and steel qualities on request

CHEMICAL FIXING

Anchor Stud

A4 stainless steel



Type	Art.No.	Fixing Thickness (mm) †	Length (mm) †	Q.ty/Box
ASTA M8x110	A8110A	20	110	10
ASTA M8x150	A8150A	60	150	10
ASTA M10x130	A1013A	30	130	10
ASTA M10x165	A1016A	65	165	10
ASTA M10x190	A1019A	90	190	10
ASTA M12x135	A1213A	10	135	10
ASTA M12x160	A1216A	35	160	10
ASTA M12x220	A1222A	95	220	10
ASTA M16x165	A1616A	20	165	10
ASTA M16x190	A1619A	45	190	10
ASTA M16x230	A1623A	85	110	10
ASTA M20x220	A2022A	20	220	10
ASTA M20x260	A2026A	60	260	10

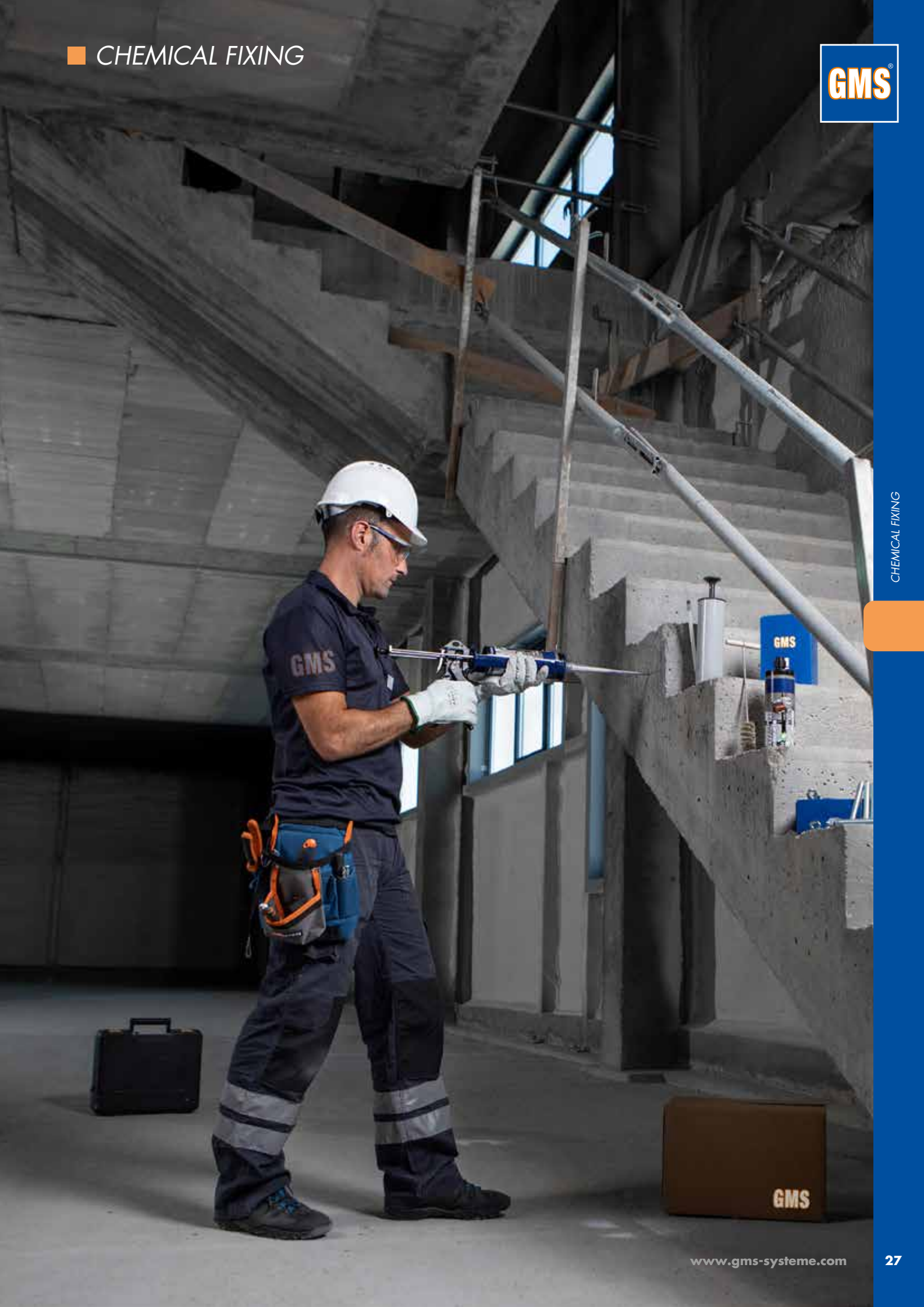
Setting tool is included

* more lengths and steel qualities on request

Threaded Sleeve for chemical capsule



Type	Art.No.	Drillbit-Ø (mm)	Drilling Depth (mm)	for Capsule	Q.ty/Bulk
IHK-V M8	IHKV08	14	90	12	10
IHK-V M10	IHKV10	16	90	14	10
IHK-V M12	IHKV12	18	100	16	10



TERMS AND CONDITIONS OF SALE AND DELIVERY

TERMS AND CONDITIONS OF SALE AND DELIVERY, GMS-Bautechnik GmbH, A-9020 Klagenfurt am Wörthersee, Sonnengasse 13
in the field of the timber and building materials trade, the iron and hardware trade, as well as the Association of Building Materials Dealers in Austria
Status: 08/2023

1. Preamble

- 1.1 The Contractor shall accept, sell and deliver orders exclusively on the basis of these Terms and Conditions of Sale and Delivery. These following terms and conditions apply to all services performed by the contractor or a subcontractor named by him within the scope of an order.
- 1.2 Verbally agreed changes or additions to this contract are only effective if they have been confirmed in writing by the contractor.
- 1.3 Terms and conditions of the client are expressly excluded for the legal transaction in question and the entire business relationship.

2. Offers/Prices

- 2.1 The offers of the contractor, whether in writing, verbally or by telephone, are valid ex warehouse, unless expressly stated otherwise.
- 2.2 The contractor expressly reserves the right to prior sale. In the case of tiles, the billing quantity also includes the usual joint spacing in the installed condition.
- 2.3 A purchase contract is only concluded if the contractor either sends a written order confirmation or delivers the ordered contractual items within the acceptance period.
- 2.4 The prices quoted are exclusive of transport, insurance and installation costs and do not include VAT, unless explicitly stated. The costs mentioned will be invoiced to the client additionally.
- 2.5 The prices are calculated in EURO and the prices valid on the day of delivery are decisive.
- 2.6 For goods that the contractor does not keep in stock at all times, they will be delivered in full packaging units and invoiced.
- 2.7 A disposal fee has already been paid by the contractor for delivered packaging material and the packaging material, if any, will be invoiced by the contractor to the customer. The provision of pallets will also be charged to the client. If the pallets are returned in perfect condition within 90 days of delivery, the use will be reimbursed, reduced by the fee for pallet wear and tear, as well as any return costs incurred by the contractor.

3. Delivery

- 3.1 Delivery shall be made at the expense and risk of the customer.
- 3.2 Partial deliveries are possible.
- 3.3 Complaints arising from transport damage must be submitted by the customer to the transport company and contractor in writing immediately after receipt of the goods, but no later than within eight days.
- 3.4 Storage measures and storage costs, which become necessary for reasons within the sphere of the customer, shall be borne and at the expense of the customer and shall be deemed to be delivery as soon as these storage measures begin.
- 3.5 Objectively justified and reasonable changes to the contractor's performance and delivery obligations, in particular reasonable delays in delivery deadlines, shall be deemed to have been approved in advance by the customer.
- 3.6 Announced delivery dates shall be deemed to be approximate if no fixed transaction has been agreed. Force majeure or other unforeseen obstacles in the sphere of the contractor or its subcontractors release the contractor from compliance with the agreed delivery time.
- 3.7 If a binding delivery period agreed by the contractor is exceeded, the customer may withdraw from the contract by setting a written grace period of four weeks or, in the case of special order goods, by setting a written grace period of eight weeks.
- 3.8 The client is obliged to collect the goods stored at the contractor's premises immediately after notification by the contractor.
- 3.9 If the delivery is made with packaging material, this will not be taken back by the contractor and the customer undertakes to carry out the proper disposal via household collection, waste collection centres or commercial collectors or municipalities himself.
- 3.10 The possible and permitted access of heavy trucks is required for delivery. The unloading of the delivery shall be carried out at the expense and risk of the customer by himself or by third parties commissioned by him.
- 3.11 If unloading by the contractor has been agreed, this means parking the goods or the subject matter of the contract directly next to the truck and the customer must provide a suitable parking area.
- 3.12 Disruption of operations and traffic and improper delivery by subcontractors shall also be deemed to be force majeure and shall release the Contractor from the obligation to deliver for the duration of the hindrance or, at the Contractor's discretion, without the Customer incurring any claims due to the Contractor's withdrawal.
- 3.13 The Contractor is free to choose the method of shipment of the goods and the means of transport. The place of performance for delivery and payment is the place of business of the contractor.

4. Tolerances

- 4.1 Quantities in offers are given without guarantee. We reserve the right to deviate from brochures, illustrations and samples in colour, dimensions, weights and qualities, in particular in the case of ceramic products and fine plasters.
- 4.2 If deviations are not reasonable for the customer anyway, in particular because they are minor and objectively justified, the contractor may only deviate from the ordered service if this has been negotiated in detail with the customer.

5. Cost estimate

- 5.1 The cost estimate is prepared to the best of our knowledge, but no guarantee can be given for its accuracy.
- 5.2 All offers are subject to change. The costs for the reimbursement of a cost estimate, if any, will be charged to the client.

6. Reminder and collection expenses

- 6.1 In the event of default in payment, the Client shall be obliged to reimburse the Contractor for all pre-litigation costs incurred by him, such as lawyers' fees and costs of collection agencies, provided that these costs were necessary for appropriate legal prosecution.
- 6.2 If the contractor carries out the dunning process himself, the client undertakes to pay an amount of EUR 10,- plus interest and costs otherwise incurred for each reminder issued.
- 6.3 In addition, the Client shall compensate for any further damage, in particular the damage caused by the fact that correspondingly higher interest rates are incurred on any credit accounts of the Contractor as a result of non-payment, regardless of the fault in the default of payment.

7. Warranty, guarantee and liability

- 7.1 If a defect occurs in the delivered goods, the customer may initially only demand the improvement or replacement of the goods, unless the improvement or replacement is impossible or would involve a disproportionately high effort for the contractor compared to the other remedy. Whether this is the case also depends on the value of the goods free of defects, the severity of the defect and the inconvenience to the transferee associated with the other remedy. The contractor undertakes to carry out the improvement and replacement within a reasonable period of time after the goods have been handed over by the customer.
- 7.2 If both the improvement and the replacement are impossible or involve a disproportionately high effort for the contractor, the customer has the right to a price reduction or, unless it is a minor defect, the right to rescission. The same shall apply if the Contractor refuses to improve or replace the goods or fails to do so within a reasonable period of time, if these remedies would cause considerable inconvenience to the Contractor and if they are unreasonable for the Contractor for valid reasons relating to the Contractor.
- 7.3 It is agreed that the client must assert his right to warranty for movable and immovable property within the meaning of § 933 ABGB in court within six months.
- 7.4 In addition to the warranty framework, additional warranty services may be ordered. The present terms and conditions of sale and delivery also apply to these services. In the event of such a guarantee, the contractor declares that this guarantee does not limit the customer's warranty right.
- 7.5 Without prejudice to his rights, the client is obliged to have the expressly stipulated properties of the ordered subject matter of the contract confirmed. Usually assumed properties are the product properties specified by the manufacturers, as well as those properties that can be placed on the product when used properly and for the intended purpose, as well as the relevant Austrian standards. In the case of frost-proof goods, the contractor guarantees frost resistance in accordance with the applicable Austrian standards.
- 7.6 Without prejudice to his rights, the customer is obliged to check the conformity of the goods with the order immediately upon delivery by the contractor, both visually and in accordance with the specified product designations and batch numbers.

- 7.7 Except for personal injury, claims for damages by the client are excluded unless the contractor or a person for whom the contractor is responsible has caused the damage intentionally or through gross negligence.
- 7.8 Technical information provided by the Contractor is without guarantee and, insofar as it goes beyond the information provided by the manufacturer, requires written confirmation by the Contractor, whereby the basis for this is the problem descriptions given to the Contractor by the Client, the correctness and completeness of which the Contractor assumes with other exclusions of liability.
- 7.9 Except for damage to the person, claims for damages by the client due to late delivery or withdrawal from the contract are excluded, provided that the contractor or persons for whom the contractor is responsible is not responsible for the damage either intentionally or through gross negligence.

8. Payment

- 8.1 Invoicing shall take place, as far as possible, immediately after delivery. Payments are due after invoicing without any deduction and free of charge. For partial invoices, the terms of payment specified for the entire order shall apply analogously.
- 8.2 In the case of orders comprising several units, the Contractor shall be entitled to invoice after delivery of each individual unit or service.
- 8.3 The client is not entitled to withhold payments due to incomplete deliveries, guarantee or warranty claims or complaints.
- 8.4 Payments received by the Contractor from the Client shall first repay compound interest, interest and ancillary expenses, pre-litigation costs, such as the costs of a lawyer and collection agency consulted, then the outstanding capital, starting with the oldest debt.
- 8.5 In the event of default in payment, the Contractor shall charge interest on arrears to the extent customary in banking. In the event of non-compliance with two instalments in the case of partial payments, the contractor shall be entitled to allow the loss of deadline to take effect and to make the accepted payments handed over due accordingly.
- 8.6 If the Client is in default of payment to such an extent that even one outstanding invoice has to be sued by the Contractor, it is agreed that all outstanding invoices of the Contractor vis-à-vis the Client shall become due and any discounts or rebates or rebates shall lapse.
- 8.7 In the event of non-compliance with the Contractor's terms of payment, as well as in the event of justified concern about the Buyer's solvency (i.e. already in the event of a delay in payment), the Contractor shall be entitled to withhold outstanding deliveries and services, to demand advance payments or securities or to withdraw from the contract without setting a grace period.

9. Ownership

- 9.1 The delivered goods shall remain the unrestricted property of the Contractor until all claims of the Contractor arising from the delivery (including interest and costs) have been paid. Pledges and assignments by way of security by the client before full payment have been made shall be deemed to have been excluded.
- 9.2 If the Client fails to properly fulfil its obligations under the concluded contract, the Contractor shall be entitled at any time to retrieve its property at the expense of the Client, which the Client expressly undertakes to surrender.
- 9.3 If the goods still owned by the Contractor are seized or confiscated, the Client undertakes to notify the Contractor within three days and to provide the Contractor with all information necessary to enforce the right of ownership. If third parties access the goods still subject to the contractor's retention of title or assert claims, the client undertakes to point out that these goods are the property of the contractor.
- 9.4 The assertion of retention of title by the Contractor does not constitute a withdrawal from the contract by the Contractor.
- 9.5 Deliveries carried out for a specific construction project, even if they are ordered, delivered and invoiced in sections, shall be deemed to be a single order.
- 9.6 In the event of default in payment, as well as in the event of justified concern about the Buyer's solvency (payment delay is sufficient), the Contractor shall be entitled to collect the goods subject to retention of title without withdrawing from the contract. In the case of all returns of goods, the client must reimburse the contractor for the costs incurred by the contractor for transport and manipulation.

10. Assignment of receivables

- 10.1 In the case of delivery subject to retention of title, the customer hereby assigns to the contractor his claims against third parties, insofar as these arise from the sale or processing of our goods, on account of payment until the final payment of our claims. This assignment is recorded in the books, delivery notes, invoices, etc. to make it clear to the customer.
- 10.2 If the Client is in arrears with his payments to the Contractor, the proceeds of the sale received by him shall be separated and the Client shall hold them only in the name of the Contractor. Any claims against an insurer have already been assigned to the contractor within the limits of the applicable insurance law.
- 10.3 The Client is not entitled to offset any counterclaims against the Contractor against claims of the Contractor. Unless these counterclaims have been acknowledged in writing by the contractor.

11. Product Liability

- 11.1 Recourse claims within the meaning of § 12 of the Product Liability Act are excluded, unless the recourse entitled proves that the defect was caused in the sphere of the contractor and was at least grossly negligent.
- 11.2 If the customer is not a consumer according to the Consumer Protection Act, liability for property damage resulting from a product defect is excluded in accordance with § 8 of the Product Liability Act, including for all companies involved in production, import and distribution. In this case, the client undertakes to transfer this exclusion of liability to his customers. In the case of the sale of imported goods, the contractor undertakes to notify the client of the foreman within 14 days upon written request.

12. Place of jurisdiction and applicable law

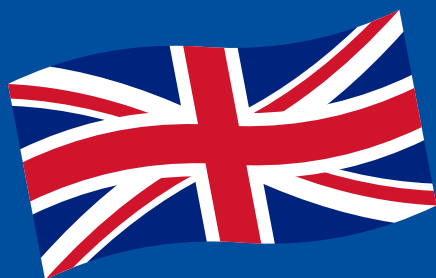
- 12.1 In the event of any disputes, the territorial jurisdiction of the competent court at the Contractor's place of business is expressly agreed.
- 12.2 Austrian substantive law applies. The applicability of the UN Convention on Contracts for the International Sale of Goods is excluded.

13. Data protection and change of address

- 13.1 The Client agrees that the personal data contained in the Purchase Contract may be stored and processed by the Contractor with the aid of automation in fulfilment of the Contract.
- 13.2 The Client is obliged to notify the Contractor of any changes to his home or business address as long as the contractual legal transaction has not been fulfilled by both parties. If we fail to notify us, declarations shall be deemed to have been received even if they are sent to the last known address.

14. Final Provisions

- 14.1 The above provisions shall only apply to sales to consumers within the meaning of the Consumer Protection Act to the extent that the Consumer Protection Act does not necessarily provide for other provisions.
- 14.2 If individual provisions of these terms and conditions are or become invalid or ineffective, this shall not affect the validity of the remaining provisions.
- 14.3 Force majeure or other unforeseen obstacles within the sphere of the Contractor shall release the Contractor from complying with the agreed obligations for the duration of the force majeure.
- 14.4 The customer expressly waives the concluded terms and conditions of sale and delivery, for whatever reason, also due to reduction of more than half of the true value as well as due to error.



GMS goes to UK!
Ideas, that keep!

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