



# Anchor Systems

**Hilti. Outperform. Outlast.**

# Anchor Systems

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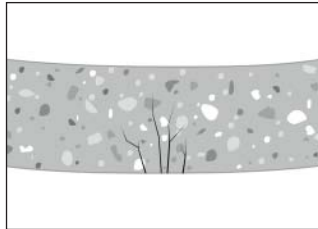
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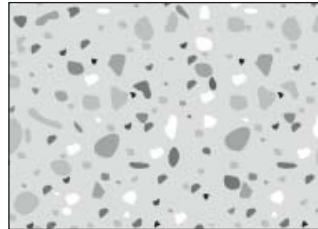
## Adhesive anchors

### Product Code

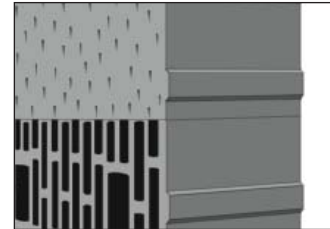
HVZ



HVU



HIT-HY 50



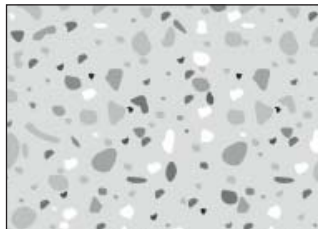
### Applications

cracked concrete	✓	—	—
non cracked concrete	✓	✓	✓
solid brick masonry	—	—	✓
perforated brick masonry	—	—	✓
gas concrete	—	—	✓

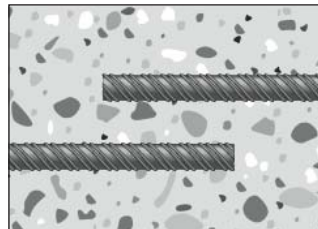
## Adhesive anchors

### Product Code

HIT-RE 500



HIT-HY 150



### Applications

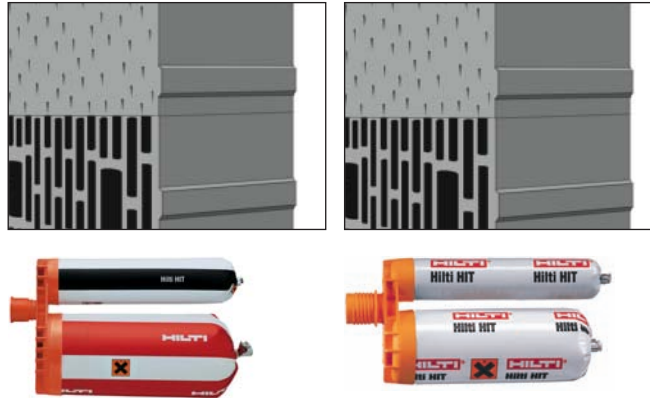
cracked concrete	—	✓
non cracked concrete	✓	✓
solid brick masonry	—	—
perforated brick masonry	—	—
gas concrete	—	—

## Adhesive anchors

### Product Code

HIT-HY 70

HIT-HY 20



### Applications

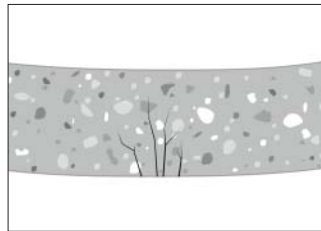
cracked concrete	—	—
non cracked concrete	—	—
solid brick masonry	✓	✓
perforated brick masonry	✓	✓
gas concrete	—	—



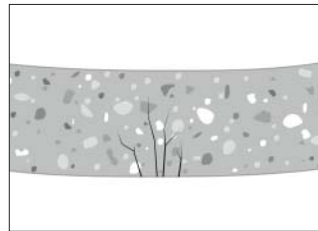
## Metal anchors

### Product Code

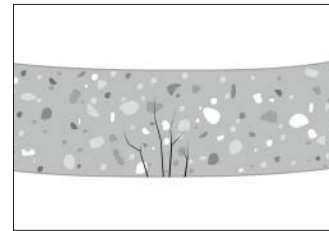
HDA-T



HSL-3



HSC-A



### Applications

cracked concrete

✓

✓

✓

non cracked concrete

✓

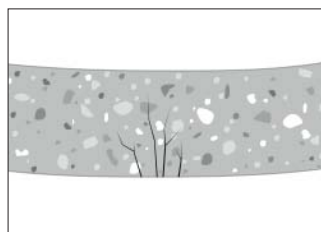
✓

✓

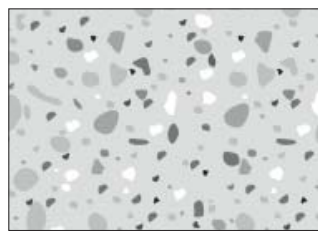
## Metal anchors

### Product Code

HST



HSA



HUS-H 16.5



### Applications

cracked concrete

✓

—

✓

non cracked concrete

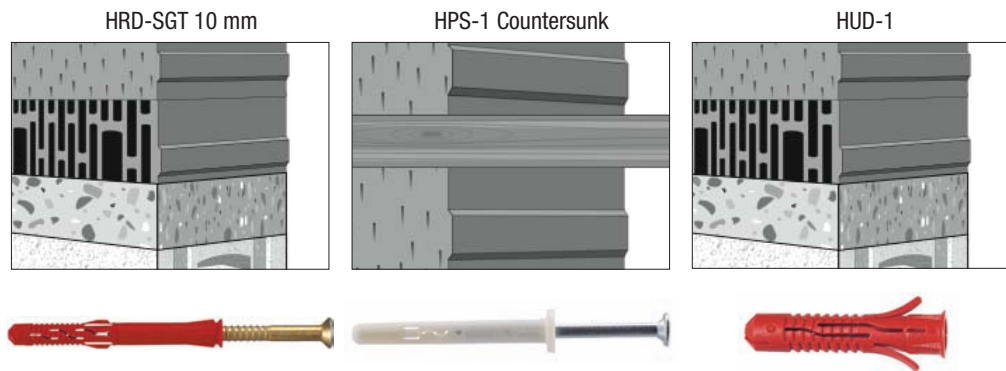
✓

✓

✓

## Plastic anchors

### Product Code

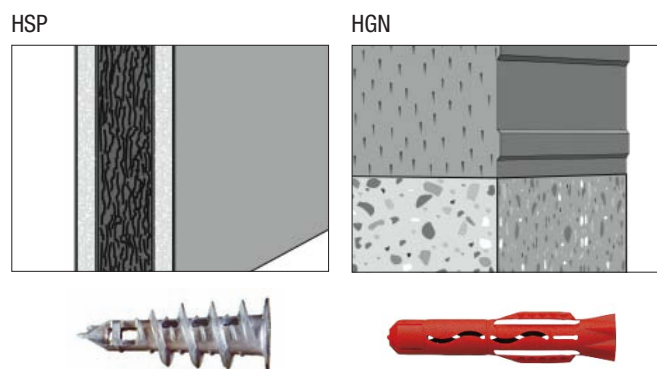


### Applications

non cracked concrete	✓	✓	✓
gas concrete	✓	✓	✓
solid brick masonry	✓	✓	✓
perforated brick masonry	✓	✓	✓
plaster	—	—	—

## Plastic anchors

### Product Code



### Applications

non cracked concrete	—	—
gas concrete	—	✓
solid brick masonry	—	—
perforated brick masonry	—	—
plaster	✓	—

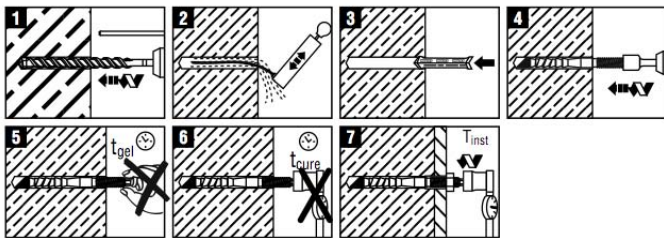
## HVZ Adhesive Anchor System

**The first adhesive anchor with foil capsule suitable for use in cracked concrete**

Base Material	Approvals	Firestop
cracked and non-cracked concrete > C20/25 (B25)	ETA-03/0032 ETA-03/0033 ETA-03/0034	IBMB 3357/0550-1

### Applications:

Heavy duty fastenings in cracked concrete and for dynamic loading (steel structures, machinery, crash barriers, curtain wall structures, railings, etc.)



Anchor size	Hole depth mm	Order Description	Item Number	Sales Quantity
M10	90	Adhesive capsule HVU-TZ M10	00311368	10
M12	110	Adhesive capsule HVU-TZ M12	00311369	10
M16	125	Adhesive capsule HVU-TZ M16	00311370	10
M20	195	Adhesive capsule HVU-TZ M20	00335942	4



### Features and Benefits

- HVZ combines highest performance in chemical anchors with an unparalleled level of safety
- Minimal sensitivity to cracked concrete (Tension Zone)
- Minimal sensitivity to dynamic loads
- Minimal sensitivity to application irregularities
- Flexibility is the key
- Flexible foil capsule instead of glass: A robust product for real job site conditions
- Multitude of adhesive capsules and anchor rods in various diameters and lengths
- Arrow-head shaped foil capsule stays in the hole for easy overhead installations
- HVU-TZ aggregate roughens hole which allows for use in Hilti matched tolerance diamond cored holes
- A performer under dynamic loads
- The use of special steel for the HAS-TZ anchor rod enables the HVZ to take recurring loads for superior to regular anchors
- Extensive testing supplies real-world data for fastenings under dynamic loading conditions with millions of load cycles analysed
- Unique design concept for fatigue loads allows safe and economic design
- Fatigue, shock and seismic loads are becoming a calculable fact



## HAS-TZ Anchor Rod

Threaded rod for applications in cracked concrete with HVU-TZ capsules (galvanised version)



Anchor length	Baseplate clearance hole mm	Fastener height mm	Max. thickness fastened	Required torque Nm	Wrench size mm	Order Description	Item Number	Sales Quantity
124	12	15	15	40	17	Anchor rod HAS-TZ M10X75/15	00310018	10
139	12	30	30	40	17	Anchor rod HAS-TZ M10X75/30	00308383	10
159	12	50	50	40	17	Anchor rod HAS-TZ M10X75/50	00308384	10
158	14	25	25	50	19	Anchor rod HAS-TZ M12X95/25	00308385	10
183	14	50	50	50	19	Anchor rod HAS-TZ M12X95/50	00308386	10
233	14	100	100	50	19	Anchor rod HAS-TZ M12X95/100	00308387	10
181	18	30	30	90	24	Anchor rod HAS-TZ M16X105/30	00308388	5
211	18	60	60	90	24	Anchor rod HAS-TZ M16X105/60	00308389	5
251	18	100	100	90	24	Anchor rod HAS-TZ M16X105/100	00308390	5
201	18	30	30	90	24	Anchor rod HAS-TZ M16X125/30	00332519	5
231	18	60	60	90	24	Anchor rod HAS-TZ M16X125/60	00332520	5
271	18	100	100	90	24	Anchor rod HAS-TZ M16X125/100	00332521	5
269	22	40	40	150	30	Anchor rod HAS-TZ M20X170/40	00335943	4

## HAS-RTZ Anchor Rod

Threaded rod for applications in cracked concrete with HVU-TZ capsules (stainless steel as per EN 10088-3 A4-80)



Anchor length	Baseplate clearance hole mm	Fastener height mm	Max. thickness fastened	Required torque Nm	Wrench size mm	Order Description	Item Number	Sales Quantity
124	12	15	15	50	17	Anchor rod HAS-RTZ M10X75/15	00310019	10
139	12	30	30	50	17	Anchor rod HAS-RTZ M10X75/30	00308391	10
159	12	50	50	50	17	Anchor rod HAS-RTZ M10X75/50	00308392	10
158	14	25	25	70	19	Anchor rod HAS-RTZ M12X95/25	00308393	10
173	15	40	40	70	19	Anchor rod HAS-RTZ M12X95/40	00333769	10
183	14	50	50	70	19	Anchor rod HAS-RTZ M12X95/50	00308394	10
181	18	30	30	100	24	Anchor rod HAS-RTZ M16X105/30	00308396	5
211	18	60	60	100	24	Anchor rod HAS-RTZ M16X105/60	00308397	5
251	18	100	100	100	24	Anchor rod HAS-RTZ M16X105/100	00308398	5
201	18	30	30	100	24	Anchor rod HAS-RTZ M16X125/30	00332522	5
231	18	60	60	100	24	Anchor rod HAS-RTZ M16X125/60	00332523	5
271	18	100	100	100	24	Anchor rod HAS-RTZ M16X125/100	00332524	5
269	22	40	40	150	30	Anchor rod HAS-RTZ M20X170/40	00335944	4



## HAS-HCR-TZ Anchor Rod

**Threaded rod for applications in cracked concrete with HVU-TZ capsules (highly corrosion resistant steel as per EN 10088-3)**

Base Material	Approvals	Firestop
cracked and non-cracked concrete > C20/25 (B25)	ETA-03/0034	IBMB 3357/0550-2

### Applications:

Suitable for fastenings into cracked concrete in combination with HVA capsules



### Features and Benefits

- HVZ combines highest performance in chemical anchors with an unparalleled level of safety
- Minimal sensitivity to cracked concrete (Tension Zone)
- Minimal sensitivity to dynamic loads
- Minimal sensitivity to application irregularities
- Flexibility is the key
- Flexible foil capsule instead of glass: A robust product for real job site conditions
- Multitude of adhesive capsules and anchor rods in various diameters and lengths
- Arrow-head shaped foil capsule stays in the hole for easy overhead installations
- HVU-TZ aggregate roughens hole which allows for use in Hilti matched tolerance diamond cored holes
- A performer under dynamic loads
- The use of special steel for the HAS-TZ anchor rod enables the HVZ to take recurring loads for superior to regular anchors
- Extensive testing supplies real-world data for fastenings under dynamic loading conditions with millions of load cycles analysed
- Unique design concept for fatigue loads allows safe and economic design
- Fatigue, shock and seismic loads are becoming a calculable fact



Anchor length mm	Fastener height mm	Hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
124	15	90	15	Anchor rod HAS-HCR-TZ M10X75/15	00336269	10
139	30	90	30	Anchor rod HAS-HCR-TZ M10X75/30	00336270	10
159	50	90	50	Anchor rod HAS-HCR-TZ M10X75/50	00336271	10
158	25	110	25	Anchor rod HAS-HCR-TZ M12X95/25	00336272	10
183	50	110	50	Anchor rod HAS-HCR-TZ M12X95/50	00336273	10
233	100	110	100	Anchor rod HAS-HCR-TZ M12X95/100	00336274	10
181	30	125	30	Anchor rod HAS-HCR-TZ M16X105/30	00336275	5
211	60	125	60	Anchor rod HAS-HCR-TZ M16X105/60	00336276	5
251	100	125	100	Anchor rod HAS-HCR-TZ M16X105/100	00336277	5
201	30	145	30	Anchor rod HAS-HCR-TZ M16X125/30	00336278	5
231	60	145	60	Anchor rod HAS-HCR-TZ M16X125/60	00336279	5
271	100	145	100	Anchor rod HAS-HCR-TZ M16X125/100	00336280	5
269			40	Anchor rod HAS-HCR-TZ M20X170/40	00335945	4

## Dynamic Set HDA/HVZ

Accessory for HDA and HVZ dynamic for fatigue loading

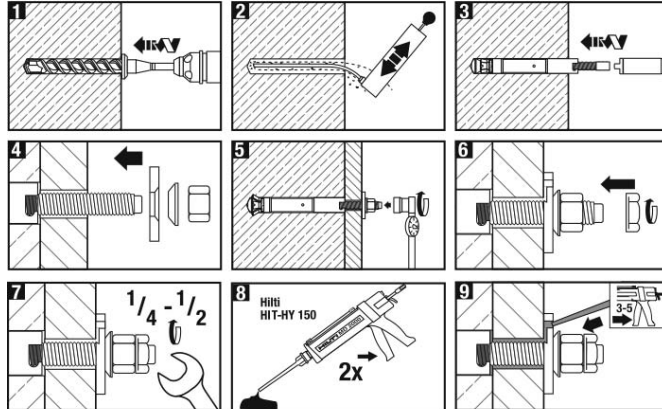
Base Material	Approvals	Firestop
cracked and non-cracked concrete > C20/25 (B25)	Z-21.3-1692	-

### Applications:

Dynamic loading, such as fatigue, shock and seismic



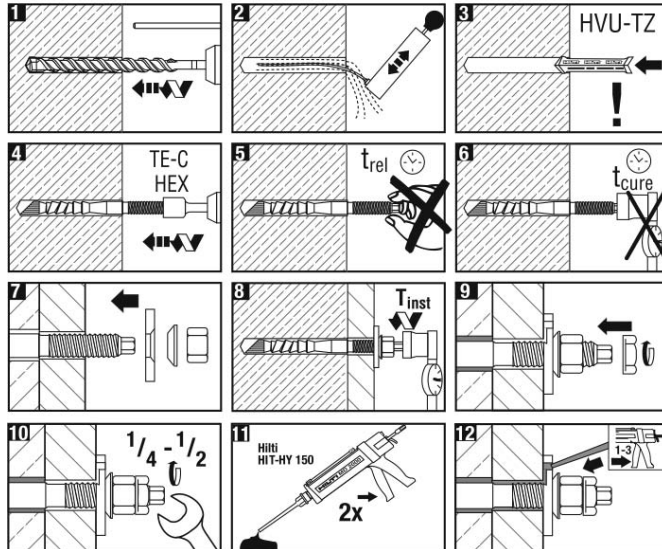
### HDA-T / HDA-P



### Features and Benefits

- Quick and easy setting operation
- High loading resistance, even in cracked concrete or when edge distance and spacing are small
- Allows baseplate clearance hole to be filled with HIT HY 150. This ensures that the applied shear load is distributed evenly on to all anchors

### HVZ



Order Description	Item Number	Sales Quantity
Dynamic set M10	00369201	2
Dynamic set M12	00369202	2
Dynamic set M16	00369203	2
Dynamic set M20	00369204	2



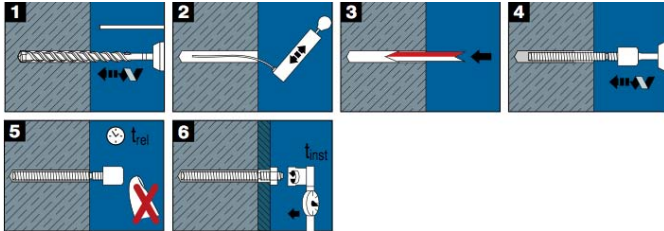
## HVU Adhesive Capsule Anchor System

### Flexibility in heavy duty fastenings

Base Material	Approvals	Firestop
non-cracked concrete	Z-21.1-1522	IBMB 3333/0891-1
natural stone, hard	-	-

#### Applications:

Heavy duty fastenings in non-cracked concrete (steel structures, machinery, crash barriers, curtain wall structures, railings, etc.)



#### Features and Benefits

- Flexibility is the key
- Flexible foil capsule instead of glass: A robust product for real job site conditions
- One system for all applications: A multitude of adhesive capsules, anchor rods, internally threaded sleeves in various diameters and lengths
- Safety in Application and installation
- No hole brushing required, just blowing out hole with compressed air makes installation fast and easy
- Contains no hazardous chemicals to insure worker's safety as well as easy storage and transportation
- Formulated for easy installations in freezing temperatures without preheating capsules for all weather installations
- Unique strength and productivity in chemical anchors
- High load values for threaded rod and rebar applications for broad range of applications
- No expansion forces on concrete allows usage in applications with small edge distance and/or anchor spacing
- Fast curing for high productivity and fast threaded rod usage
- HVU aggregate roughens hole that allows for use in Hilti matched tolerance diamond cored holes

Hole depth mm	Order Description	Item Number	Sales Quantity
80	Adhesive capsule HVU M8X80 BULK	00334741	400
90	Adhesive capsule HVU M10X90	00256692	10
90	Adhesive capsule HVU M10X90 BULK	00334742	300
135	Adhesive capsule HVU M10X135	00307914	20
110	Adhesive capsule HVU M12X110	00256693	10
110	Adhesive capsule HVU M12X110 BULK	00334743	300
165	Adhesive capsule HVU M12X165	00307915	20
125	Adhesive capsule HVU M16X125	00256694	10
125	Adhesive capsule HVU M16X125 BULK	00334744	300
190	Adhesive capsule HVU M16X190	00307916	10
170	Adhesive capsule HVU M20X170	00256695	5
170	Adhesive capsule HVU M20X170 BULK	00334745	150
255	Adhesive capsule HVU M20X255	00307917	5
210	Adhesive capsule HVU M24X210	00256696	5
210	Adhesive capsule HVU M24X210 BULK	00334746	100
240	Adhesive capsule HVU M27X240	00256697	4
270	Adhesive capsule HVU M30X270	00256698	4
300	Adhesive capsule HVU M33X300	00256699	4
330	Adhesive capsule HVU M36X330	00256700	2
360	Adhesive capsule HVU M39X360	00256701	2
80	Adhesive capsule HVU M8X80	00256691	10



## HAS-E Threaded Anchor Rod, M8-M39

Galvanized version with conical head for use with HVU capsules and HIT Adhesive Anchoring System (complete with nut and washer)



Baseplate clearance hole mm	Max. thickness fastened mm	Required torque Nm	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
11	14	15	106	13	Anchor rod HAS-E M8X80/14	00332219	20
11	54	18	146	13	Anchor rod HAS-E M8X80/54	00333099	10
13	21	30	125	17	Anchor rod HAS-E M10X90/21	00332220	20
13	61	35	165	17	Anchor rod HAS-E M10X90/61	00333100	10
13	81	35	185	17	Anchor rod HAS-E M10X90/81	00333101	10
15	28	50	153	19	Anchor rod HAS-E M12X110/28	00332221	20
15	88	60	213	19	Anchor rod HAS-E M12X110/88	00333102	10
15	128	60	253	19	Anchor rod HAS-E M12X110/128	00333103	10
15	168	60	293	19	Anchor rod HAS-E M12X110/168	00333104	10
18	20	120	164	24	Anchor rod HAS-E M16X125/20	00333105	10
19	38	100	182	24	Anchor rod HAS-E M16X125/38	00332222	20
18	108	120	252	24	Anchor rod HAS-E M16X125/108	00333106	10
19	148	120	292	24	Anchor rod HAS-E M16X125/148	00333107	10
19	198	120	342	24	Anchor rod HAS-E M16X125/198	00333108	10
19	348	120	492	24	Anchor rod HAS-E M16X125/348	00333109	10
25	48	160	240	30	Anchor rod HAS-E M20X170/48	00332223	10
25	68	200	260	30	Anchor rod HAS-E M20X170/68	00333110	10
25	108	200	300	30	Anchor rod HAS-E M20X170/108	00333111	10
25	158	200	350	30	Anchor rod HAS-E M20X170/158	00333112	10
25	208	200	400	30	Anchor rod HAS-E M20X170/208	00333113	10
29	58	240	290	36	Anchor rod HAS-E M24X210/54	00332224	10
31	60	650	340	41	Anchor rod HAS-E M27X240/60	00333114	4
36	70	950	380	46	Anchor rod HAS-E M30X270/70	00333115	4
38	80	1200	420	50	Anchor rod HAS-E M33X300/80	00333116	4
41	90	1500	460	55	Anchor rod HAS-E M36X330/90	00333117	2
43	100	1800	510	59	Anchor rod HAS-E M39X360/100	00333118	2

## HAS-E-F Threaded Anchor Rod

Hot dipped galvanised version with conical head  
complete with nut and washer

**M8 - M24 for use with HIT-HY**

**M8 - M39 for use with HVU**



Fastener height mm	Hole depth mm	Max. thickness fastened mm	Required torque Nm	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
14	90	14	15	106	13	Anchor rod HAS-E-F M8X80/14	00333143	20
54	90	54	18	146	13	Anchor rod HAS-E-F M8X80/54	00333144	10
21	100	21	30	125	17	Anchor rod HAS-E-F M10X90/21	00333145	20
61	100	61	35	165	17	Anchor rod HAS-E-F M10X90/61	00333146	10
81	100	81	35	185	17	Anchor rod HAS-E-F M10X90/81	00333147	10
28	120	28	50	153	19	Anchor rod HAS-E-F M12X110/28	00333148	20
88	120	88	60	213	19	Anchor rod HAS-E-F M12X110/88	00333149	10
128	120	128	60	253	19	Anchor rod HAS-E-F M12X110/128	00333150	10
168	120	168	60	293	19	Anchor rod HAS-E-F M12X110/168	00333151	10
20	135	20	120	164	24	Anchor rod HAS-E-F M16X125/20	00333152	10
38	135	38	100	182	24	Anchor rod HAS-E-F M16X125/38	00333153	20
108	135	108	120	252	24	Anchor rod HAS-E-F M16X125/108	00333154	10
148	135	148	120	292	24	Anchor rod HAS-E-F M16X125/148	00333155	10
198	135	198	120	342	24	Anchor rod HAS-E-F M16X125/198	00333156	10
348	135	348	120	492	24	Anchor rod HAS-E-F M16X125/348	00333157	10
48	180	48	160	240	30	Anchor rod HAS-E-F M20X170/48	00333158	10
68	180	68	200	260	30	Anchor rod HAS-E-F M20X170/68	00333159	10
108	180	108	200	300	30	Anchor rod HAS-E-F M20X170/108	00333160	10
158	180	158	200	350	30	Anchor rod HAS-E-F M20X170/158	00333161	10
208	180	208	200	400	30	Anchor rod HAS-E-F M20X170/208	00333162	10
54	220	54	240	290	36	Anchor rod HAS-E-F M24X210/54	00333163	10
60	250	60	650	340	41	Anchor rod HAS-E-F M27X240/60	00333164	4
70	280	70	300	380	46	Anchor rod HAS-E-F M30X270/70	00333165	4
80	310	80	1200	420	50	Anchor rod HAS-E-F M33X300/80	00333166	4
90	340	90	1500	460	55	Anchor rod HAS-E-F M36X330/90	00333167	2
	370	100	1800	510	59	Anchor rod HAS-E-F M39X360/100	00333168	2



## HAS-E-R Threaded Anchor Rod

**Stainless steel version as per DIN 1.4401/316SS**  
**with conical head, complete with nut and washer**  
**M8 - M24 for use with HIT-HY**  
**M8 - M39 for use with HVU**



Baseplate clearance hole mm	Fastener height mm	Max. thickness fastened mm	Required torque Nm	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
11	14	14	15	106	13	Anchor rod HAS-E-R M8X80/14	00333119	20
11	54	54	18	146	13	Anchor rod HAS-E-R M8X80/54	00333120	10
11	114	114	18	206	13	Anchor rod HAS-E-R M8X80/114	00333121	10
13	21	21	30	125	17	Anchor rod HAS-E-R M10X90/21	00333122	20
13	61	61	35	165	17	Anchor rod HAS-E-R M10X90/61	00333123	10
13	81	81	35	185	17	Anchor rod HAS-E-R M10X90/81	00333124	10
13	111	111	35	215	17	Anchor rod HAS-E-R M10X90/111	00333125	10
15	28	28	50	153	19	Anchor rod HAS-E-R M12X110/28	00333126	20
15	88	88	60	213	19	Anchor rod HAS-E-R M12X110/88	00333127	10
15	128	128	60	253	19	Anchor rod HAS-E-R M12X110/128	00333128	10
15	168	168	60	293	19	Anchor rod HAS-E-R M12X110/168	00333129	10
19	20	20	120	164	24	Anchor rod HAS-E-R M16X125/20	00333130	10
19	38	38	100	182	24	Anchor rod HAS-E-R M16X125/38	00333131	20
19	108	108	120	252	24	Anchor rod HAS-E-R M16X125/108	00333132	10
19	148	148	120	292	24	Anchor rod HAS-E-R M16X125/148	00333133	10
19	198	198	120	342	24	Anchor rod HAS-E-R M16X125/198	00333134	10
25	48	48	160	240	30	Anchor rod HAS-E-R M20X170/48	00333135	10
25	108	108	200	300	30	Anchor rod HAS-E-R M20X170/108	00333136	10
29	54	54	240	290	36	Anchor rod HAS-E-R M24X210/54	00333137	10
31	60	60	650	340	41	Anchor rod HAS-E-R M27X240/60	00333138	4
36	70	70	950	380	46	Anchor rod HAS-E-R M30X270/70	00333139	4
38	80	80	1200	420	50	Anchor rod HAS-E-R M33X300/80	00333140	4
41	90	90	1500	460	55	Anchor rod HAS-E-R M36X330/90	00333141	2
43	100	100	1800	510	59	Anchor rod HAS-E-R M39X360/100	00333142	2

## HIS-N Threaded Sleeve Element

**Stainless steel version as per DIN 1.4401/316SS with plastic cover cap for use with HIT-HY 150 and HVU**



Baseplate clearance hole mm	Fastener height mm	hnom Standard embedment depth mm	Hole depth mm	Required torque Nm	Thread length mm	Order Description	Item Number	Sales Quantity
9	20	90		15	8 - 20	Int. threaded sleeve HIS-N M8X90	00258015	10
12	25	110	110	28	10 - 25	Int. threaded sleeve HIS-N M10X110	00258016	10
14	30	125	125	50	12 - 30	Int. threaded sleeve HIS-N M12X125	00258017	5
18	40	170	170	85	16 - 40	Int. threaded sleeve HIS-N M16X170	00258018	5
22	50	210	210	170	20 - 50	Int. threaded sleeve HIS-N M20X205	00258019	5

## HIS-RN Threaded Sleeve Element

**Stainless steel version as per DIN 1.4401/316SS with plastic cover cap for use with HIT-HY 150 and HVU**



Baseplate clearance hole mm	Fastener height mm	hnom Standard embedment depth mm	Required torque Nm	Thread length mm	Order Description	Item Number	Sales Quantity
9	20	90	12	8 - 20	Int. threaded sleeve HIS-RN M8X90 A4	00258024	10
12	25	110	23	10 - 25	Int. threaded sleeve HIS-RN M10X110 A4	00258025	10
14	30	125	40	12 - 30	Int. threaded sleeve HIS-RN M12X125 A4	00258026	5
18	40	170	70	16 - 40	Int. threaded sleeve HIS-RN M16X170 A4	00258027	5
22	50	210	130	20 - 50	Int. threaded sleeve HIS-RN M20X205 A4	00258028	5

## HVA / HVZ Setting Tool HEX

**Setting tool for anchor rods with hexagon end**



Anchor size	Order Description	Item Number	Sales Quantity
M10	Setting tool TE-C HEX M10	00311415	1
M12	Setting tool TE-C HEX M12	00311416	1
M16	Setting tool TE-C HEX M16	00311417	1
M20	Setting tool TE-Y HEX M20	00336420	1

## HAS-E Setting Tool

**Setting Tool for HVA (only for Hilti HAS-E Rods)**



Anchor size	Order Description	Item Number	Sales Quantity
M8	Setting tool TE-C-E M8	00369223	1
M10	Setting tool TE-C-E M10	00369224	1
M12	Setting tool TE-C-E M12 (1/2")	00369225	1
M16	Setting tool TE-C-E M16 (5/8")	00369226	1
M16	Setting tool TE-Y-E M16 (5/8")	00369227	1
M20	Setting tool TE-Y-E M20 (3/4")	00369228	1
M24	Setting tool TE-Y-E M24 (1")	00369229	1

# HIT-HY 50 Fast Curing Injection System

**The fast curing mortar tailored for fastenings in solid masonry**

Base Material	Approvals	Firestop
Hollow blocks	Z-21.3-399	-
Hollow bricks	Z-21.3-399	IBMB 3357/0550-3
Hollow sand-lime bricks	Z-21.3-399	IBMB 3357/0550-3
Solid brick masonry	Z-21.3-1736	IBMB 3357/0550-3
Sand-lime bricks	Z-21.3-1736	IBMB 3357/0550-3
Natural stone	-	-
Concrete > C12/15 (B15), hollow and solid brick masonry	Z-21.3-1131	-

## Applications:

High quality fastenings in all types of solid bricks such as

- Facades
- Cladding
- Renovation work
- Building modernisation etc.



## Features and Benefits

- The comprehensive HIT system offers our professional customers unique features
- Best handling
- High performance
- No waste
- Odorless and safe work are today possible thanks to the Hilti HIT injection anchoring solutions.
- Best in handling
- The comprehensive HIT system consists of easy-to-use, interchangeable components
- Top quality dispensers and optimised viscosity of the recipe allow ergonomic and comfortable handling and dispensing, even at low temperature
- Non hazardous recipe ensures safe and odourless work, also in closed rooms
- Unique foil pack cartridge gives better usage of foil content, constant mixing quality as well as 70% less waste compared to hard cartridges
- Reliability & technical superiority
- High loading capacity and optimal displacement behaviour ensures high security even close to the edges
- Unique hybrid formulation provides excellent longterm performance, high fire rating and wide range of service temperature
- Superior technical support together with a broad range of sophisticated design aids gives best possible assistance
- Flexibility
- Complete range of rods and internally threaded sleeves offered in different steels and corrosion protections allow virtually any fastening in concrete
- Different sizes of cartridges (330, 500, 1100ml) offer the right volume for each fastening job and for all customer preferences
- Work breaks do not represent any problem as the cartridge can still be stored up to a month after it has been opened

Order Description	Item Number	Sales Quantity
Injectable mortar HIT-HY 50 1100/1	00256071	1
Injectable mortar HIT-HY 50 330ML/1	00252396	1
Injectable mortar HIT-HY 50 330ML/2	00229157	20



## Hilti HIT-HY 70 injection system Limitless flexibility in all types of masonry.

### Applications

Quick and reliable fastening in:

- Hollow brick masonry
- Solid brick masonry
- Composite masonry
- Aerated light-weight concrete
- Glass construction/facades

### Advantages

- Optimized application, comfortable and flexible
- For indoor and outdoor applications, as well as for use in dry and wet drilled holes
- Can be used at any time of year in a temperature range between  $-5$  and  $+40^{\circ}\text{C}$
- Fastenings are free of expansion forces and approved by technical approval departments
- Non-bearing surfaces are effortlessly bridged
- High degree of fire resistance
- Mortar injection control: the user identifies when the correct mortar amount has been injected. Less mortar loss and lower costs per fastening point – with full performance.



Flexible embedment depths and variable loads in spite of fewer parts: Hilti's unique, combinable, corrosion free, composite mesh sleeve makes it possible!



## Hilti HIT-HY 70 injectable adhesive mortar cartridges

Ordering designation	Contents (ml)	Including	Packaging contents (pcs)	Item no.
HIT-HY 70/ 330/2	330	2 mixers	1	383677
HIT-HY 70/ 330/2	330	2 mixers	1 (promo version)	383678
HIT-HY 70/ 500/2	500	2 mixers	1	383681
HIT-HY 70/ 500/1	500	1 mixers	1	383682
HIT-HY 70/1400/1	1400	1 mixers	1	383685

## HAS anchor rods

Diameter × length (mm)	Material	Packaging contents	Ordering designation	Item no.
M 6× 80/14	Galvanized	20	HIT-AC M 6× 80/14	274486
M 8× 80/14	Galvanized	20	HAS M 8× 80/14	066001
M 10× 80/20	Galvanized	10	HIT-AC M10× 80/20	274487
M 12× 80/23	Galvanized	10	HIT-AC M12× 80/23	274488
M 12×110/28 *	Galvanized	10	HAS M12×110/28	066003
M 16×125/38 *	Galvanized	5	HAS M16×125/38	066004
M 8× 80/14	Stainless steel	20	HAS-R M 8× 80/14	259945
M 10× 80/20	Stainless steel	10	HIT-AC-R M10× 80/20	274489
M 12× 80/23	Stainless steel	10	HIT-AC-R M12× 80/23	274490
M 12×110/28 *	Stainless steel	10	HAS-R M12×110/28	259952
M 16×125/38 *	Stainless steel	5	HAS-R M16×125/38	259954

\* To be used with the SC 22×50 and SC 22×85 sleeve combinations

## HIT-SC composite sleeves

Diameter × length (mm)	Material	Packaging contents	Ordering designation	Item no.
M 12×50	Composite	20	HIT-SC 12×50	375979
M 12×85	Composite	20	HIT-SC 12×85	375980
M 16×50	Composite	20	HIT-SC 16×50	375981
M 16×85	Composite	20	HIT-SC 16×85	375982
M 22×50	Composite	20	HIT-SC 22×50	273662
M 22×85	Composite	20	HIT-SC 22×85	284511

## HIT-IG internal threaded sleeves

Diameter × length (mm)	Material	Packaging contents	Ordering designation	Item no.
M 8×50	Galvanized	10	HIT-IG M 8×50	077455
M 10×50	Galvanized	10	HIT-IG M 10×50	077456
M 12×50	Galvanized	10	HIT-IG M 12×50	077457
M 8×80	Galvanized	10	HIT-IG M 8×80	077485
M 10×80	Galvanized	10	HIT-IG M 10×80	077486
M 12×80	Galvanized	10	HIT-IG M 12×80	077487





# HIT-RE 500 High Performance Injection System

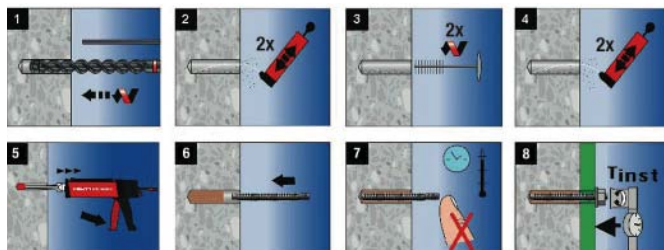
The high performance injection adhesive system for reinforcement bars and threaded rod applications in concrete. Suitable especially for big diameters and deep embedments due to slow curing process.

Base Material	Approvals	Firestop
non-cracked concrete	ETA-04/0027 ETA-04/0028 ETA-04/0029	-
natural stone, hard		-

## Applications:

Any high performance concrete fastenings such as - Rebar connections

- Repair work etc.
- with big diameters and deep embedments



## Features and Benefits

- Performance and technical superiority
- One of the strongest injection systems in the market especially suitable for big diameter rebar and rods
- No expansion forces in concrete allow for secure applications even close to the edges and/or with small spacing
- Comprehensive technical software and superior technical support enable effective fastening design
- Flexibility
- Ideal solution for diamond drilled holes and wet bore holes - can be used in all weather conditions
- Low sensitivity to oversized, wet holes due to negligible shrinkage and adhesive property thus less risk of installation failure
- Long working time, therefore always enough time for aligning work and installation of big diameters at deep embedment
- Convenience
- Easy setting in a wide range of temperature and long working time even at elevated temperature
- Very low dispensing forces and ergonomic dispensers
- Unique foil pack solution and optimised mixer thus less overall waste than conventional hard cartridges
- Virtually odourless recipe for convenient working also indoors
- Easy inspection on site due to red colour

Order Description	Item Number	Sales Quantity
Injectable mortar HIT-RE 500/1100/1	00337110	1
Injectable mortar HIT-RE 500/330/1 (25)	00337109	1
Injectable mortar HIT-RE 500/500/1 (20)	00369109	1





## HIT-HY 150 Fast Curing Injection System

The fast curing mortar tailored for all fastenings in concrete

Base Material	Approvals	Firestop
cracked and non-cracked concrete ≥ C20/25 (B25)	ETA-04/0084 ETA-04/0085	IBMB 3256/0321

### Applications:

Any high quality concrete fastenings such as

- Road signs
- Railings
- Hand rails
- Concrete reinforcement
- Reinforcement bar connections etc.



### Features and Benefits

- The comprehensive HIT system offers our professional customers unique features
- Best handling
- High performance
- No waste
- Odorless and safe work are today possible thanks to the Hilti HIT injection anchoring solutions.
- Best in handling
- The comprehensive HIT system consists of easy-to-use, interchangeable components
- Top quality dispensers and optimised viscosity of the recipe allow ergonomic and comfortable handling and dispensing, even at low temperature
- Non hazardous recipe ensures safe and odourless work, also in closed rooms
- Unique foil pack cartridge gives better usage of foil content, constant mixing quality as well as 70% less waste compared to hard cartridges
- Reliability & technical superiority
- High loading capacity and optimal displacement behaviour ensures high security even close to the edges
- Unique hybrid formulation provides excellent longterm performance, high fire rating and wide range of service temperature
- Superior technical support together with a broad range of sophisticated design aids gives best possible assistance
- Flexibility
- Complete range of rods and internally threaded sleeves offered in different steels and corrosion protections allow virtually any fastening in concrete
- Different sizes of cartridges (330, 500, 1100ml) offer the right volume for each fastening job and for all customer preferences
- Work breakes do not represent any problem as the cartridge can still be stored up to a month after it has been opened

Order Description	Item Number	Sales Quantity
Injectable mortar HIT-HY 150 1100/1	00256073	1
Injectable mortar HIT-HY 150 330/0	00315960	1
Injectable mortar HIT-HY 150 330/1/VL	00246650	1
Injectable mortar HIT-HY 150 330/2	00315959	1
Injectable mortar HIT-HY 150 500/1	00338824	1
Injectable mortar HIT-HY 150 500/2	00338973	1



# HIT-TZ Anchor Rod

**Galvanised version of HIT-TZ anchor rod for use with Hilti HIT-HY 150 in cracked and non-cracked concrete**

Base Material	Approvals	Firestop
cracked and non-cracked concrete ≥ C20/25 (B25)	ETA-04/0084 ETA-04/0085	IBMB 3256/0321



## Applications:

- For use in applications with unfavorable hole conditions or shallow embedment depth
- Suitable for fastenings like guard rails, structural fastenings (fastenings of pillars, channels, pipes)

## Features and Benefits

- Reliable
- Irrespective of the condition of the hole - dirty, wet or diamond core
- Secure
- Provides reliable follow-up expansion in cracks - suitable for use in tension zone
- Simple
- Employs Hilti HIT-HY 150 injection mortar - proven a million times over
- Economical
- Shallow depth of embedment (approx. 30% less than threaded rods)
- No bore



Anchor length mm	Baseplate clearance hole mm	Fastener height mm	Hole depth mm	Max. thickness fastened mm	Min. embedment depth mm	Required torque Nm	Wrench size mm	Order Description	Item Number	Sales Quantity
82	9	15	55	15	55	12	13	Anchor rod HIT-TZ M8X55/15	00337474	40
107	9	40	55	40	55	12	13	Anchor rod HIT-TZ M8X55/40	00337475	40
93	12	15	65	15	65	23	17	Anchor rod HIT-TZ M10x65/15	00337476	40
118	12	40	65	40	65	23	17	Anchor rod HIT-TZ M10x65/40	00337477	40
106	14	15	75	15	75	40	19	Anchor rod HIT-TZ M12x75/15	00337478	20
141	14	50	75	50	75	40	19	Anchor rod HIT-TZ M12x75/50	00337479	20
136	18	25	90	25	90	70	24	Anchor rod HIT-TZ M16x90/25	00337480	10
171	18	60	90		90	70	24	Anchor rod HIT-TZ M16x90/60	00337481	10
174	22	30	120	30	120	130	30	Anchor rod HIT-TZ M20x120/30	00337482	6
204	22	60	120	60	120	130	30	Anchor rod HIT-TZ M20x120/60	00337483	6

## HIT-RTZ Anchor Rod

**Stainless steel version of HIT-TZ anchor rod for use with Hilti HIT-HY 150 in cracked and non-cracked concrete**



Anchor length mm	Baseplate clearance hole mm	Fastener height mm	Hole depth mm	Max. thickness fastened mm	Min. embedment depth mm	Required torque Nm	Wrench size mm	Order Description	Item Number	Sales Quantity
82	9			15	55	12	13	Anchor rod HIT-RTZ M8X55/15	00337488	40
107	9			40	55	12	13	Anchor rod HIT-RTZ M8X55/40	00337489	40
93	12	15	65	15	65	23	17	Anchor rod HIT-RTZ M10x65/15	00337490	40
118	12	40	65	40	65	23	17	Anchor rod HIT-RTZ M10x65/40	00337491	40
106	14	15	75	15	75	40	19	Anchor rod HIT-RTZ M12x75/15	00337492	20
141	14	50	75	50	75	40	19	Anchor rod HIT-RTZ M12x75/50	00337493	20
136	18	25	90	25	90	70	24	Anchor rod HIT-RTZ M16x90/25	00337494	10
171	18	60	90	60	90	70	24	Anchor rod HIT-RTZ M16x90/60	00337495	10
174	22	30	120	30	120	130	30	Anchor rod HIT-RTZ M20x120/30	00337496	6
204	22	60	120	60	120	130	30	Anchor rod HIT-RTZ M20x120/60	00337497	6

# HIT-ICE System

**Low temperature adhesive anchoring system  
for applications down to  
-18 °C in solid base material**

Base Material	Approvals	Firestop
non-cracked concrete		

## Applications:

- Anchor installation in colder environments
- Designed to solve fastening problems in solid base materials such as concrete, grout filled block and stone



## Features and Benefits

- Can be used when temperatures fall to -18 °C
- No lost time due to cold weather
- Dispenses fast and easy
- Saves time

Order Description	Item Number	Sales Quantity
Injectable mortar HIT-ICE 300ML	00371292	1



## HIT-HY 20 Fast Curing Injection System

**The ideal fast curing mortar tailored for all fastenings in hollow base material**

### Applications:

High quality fastenings in all types of hollow brick such as

- Sun blinds
- Awnings
- Electrical installations
- Hand rails
- Banisters,
- Railings
- Gratings
- Gates etc.



### Features and Benefits

- Best in handling
- The comprehensive HIT system consists of easy-to-use, interchangeable components
- Top quality dispensers and optimised viscosity of the recipe allow ergonomic and comfortable handling and dispensing, even at low temperature
- Non hazardous recipe ensures safe and odourless work, also in closed rooms
- Unique foil pack cartridge gives better usage of foil content, constant mixing quality as well as 70% less waste compared to hard cartridges
- Reliability & technical superiority
- High loading capacity and optimal displacement behaviour ensures high security even close to the edges
- Unique hybrid formulation provides excellent longterm performance, high fire rating and wide range of service temperature
- Superior technical support together with a broad range of sophisticated design aids gives best possible assistance
- Flexibility
- Matched system of elements (mesh sieves & rods) and mortar allow virtually any fastening in all types of hollow brick
- Different sizes of cartridges (330, 1100ml) offer the right volume for each fastening job and for all customer preferences
- Work breakes do not represent any problem as the cartridge can still be stored up to a month after it has been opened

Order Description	Item Number	Sales Quantity
Injectable mortar HIT-HY 20 330ML/1	00229336	1
Injectable mortar HIT-HY 20 330ML/2	00229156	1
Injectable mortar HIT-HY 20 1100/1	00256070	4





## BD 2000 Battery Dispenser

Dispenser for 330 ml HIT cartridges

Order Description	Item Number	Sales Quantity
Cordless dispenser BD 2000	00332117	1
Cordless dispenser BD 2000 KIT	00332118	1
Cordless dispenser BD 2000 KIT BASIC	00332237	1



## Manual Dispensers

Dispensers for 300 ml, 330 ml and 500 ml HIT cartridges

Order Description	Item Number	Sales Quantity
Dispenser MD 1000	00371291	1
Dispenser MD 2000	00229154	1
Dispenser MD 2000 kit	00229155	1
Dispenser MD 2500 box	00338853	1
Dispenser MD 2500 cas	00369220	1



## Roughening Tools

Working length mm	Order Description	Item Number	Sales Quantity
150	Roughening tool TE-Y-RT 16/40	00259590	1
160	Roughening tool TE-Y-RT 18/40	00259591	1
200	Roughening tool TE-Y-RT 22/40	00259592	1
250	Roughening tool TE-Y-RT 28/55	00259593	1
	Roughening tool TE-Y-RT 32/55	00259594	1



## HIT Rebar Case

Complete, approved system for fastening reinforcement bars

Order Description	Item Number	Sales Quantity
Accessory set HIT-REBAR cas	00335020	1



## P 3000 F / P 3500 F Pneumatic Dispensers

Dispensers for 330 ml and 500 ml HIT cartridges

Operating pressure bar	Weight kg	Order Description	Item Number	Sales Quantity
5-6	3	Dispenser P 3000 F	00255032	1
5-6	3	Dispenser P 3500 F	00354180	1



## HIT Mixers and Extensions

Mixing nozzle to ensure constant mixing ratios for HIT cartridges

Order Description	Item Number	Sales Quantity
Extension hose POLYAETHYL.1M	00024632	1
Mixer assy	00068071	100
Mixer HIT-M1 assy	00068156	1
Mixer HIT-M2	00371290	100
Mixer HIT-RE-M	00337111	100
Mixer HY-M	00256082	100



## Pneumatic Dispensers

Dispenser for jumbo cartridges

Operating pressure bar	Weight kg	Order Description	Item Number	Sales Quantity
8	5	Dispenser P 5000 HY	00256083	1
8	6.5	Dispenser P 8000 D	00373959	1



## Hole Cleaning Brushes

For HIT-HY 150, HIT-HY 50 and HIT-RE 500

Order Description	Item Number	Sales Quantity
Brush extension	00238727	1
Brush extension 6	00229138	1
Round brush 13 HG	00229133	1
Round brush 18 GA	00229136	1
Round brush 18 HG	00229134	1
Round brush 28 GA	00229137	1
Round brush 28 HG	00229135	1
Round brush 38 GA	00229673	1
Round brush 50 GA	00229674	1



## HIT-SC Composite Sleeve

Combinable sleeves for fastening in hollow base materials

Order Description	Item Number	Sales Quantity
Mesh sleeve HIT-SC M12X50	00375979	20
Mesh sleeve HIT-SC M12X85	00375980	20
Mesh sleeve HIT-SC M16X50	00375981	20
Mesh sleeve HIT-SC M16X85	00375982	20
Mesh sleeve HIT-SC M20X85	00375983	20



## HIT-SMC 25

Scissor for cutting meterlong screen tubes and forming them

Order Description	Item Number	Sales Quantity
Scissors HIT-SMC 25	00077329	1



## HIT Rebar Accessories



Order Description	Item Number	Sales Quantity
Brush extension HIT-RBS-10/0.35	00371722	1
Brush extension HIT-RBS 10/0.7	00336645	1
Build-up plug HIT-SZ 8 / 12	00335022	1
Build-up plug HIT-SZ 10 / 14	00335023	1
Build-up plug HIT-SZ 12 / 16	00335024	10
Build-up plug HIT-SZ 14 / 18	00335025	1
Build-up plug HIT-SZ 16 / 20	00335026	1
Build-up plug HIT-SZ 20 / 25	00335027	1
Build-up plug HIT-SZ 25 / 32-34	00335028	1
Connecting piece HIT-DL A	00336643	1
Extension tube HIT-VL 16/0.7	00336646	10

## HIT Foil Pack Holder

**For use with Hilti manual and battery dispensers**



Order Description	Item Number	Sales Quantity
Cassette HIT 330 ML assy	00229170	1

## HIT-RB round brush

**for cleaning deep holes**

Order Description	Item Number	Sales Quantity
Round brush HIT-RB 8 / 12	00336548	1
Round brush HIT-RB 10 / 14	00336549	1
Round brush HIT-RB 12 / 16	00336550	1
Round brush HIT-RB 14/ 18	00336551	1
Round brush HIT-RB 16 / 20	00336552	1
Round brush HIT-RB 20 / 25	00336553	1
Round brush HIT-RB 25 / 32	00336554	1

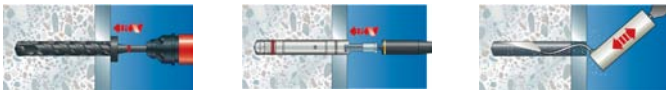
## HDA-T Design Anchor

**Self-undercutting anchor for through fastening applications (steel grade 8.8, galvanised to minimum 5 microns)**

Base Material	Approvals	Firestop
cracked and non-cracked concrete	ETA-99/0009	IBMB 3039/8151
cracked concrete with extraordinary impacts	Z-21.1-1696	IBMB 3039/8151

### Applications:

- Heavy duty fastenings for all dynamic loading in cracked or non-cracked concrete, especially for applications in nuclear power plant
- Examples are safety barriers, industrial machines, crane rail, dorm constructions, crash barriers, roof fixings, elevator track, bridge retrofitting etc.



### Features and Benefits

- Self-undercutting anchor
- The undercut is formed during the setting operation as the rotating segments are forced outwards by the tapered section
- The resulting keying effect helps the anchor remain secure even in cracked concrete under dynamic loading
- Close spacing and edge distance
- Expansion forces virtually identical to a cast-in headed stud
- Simple
- No complicated special /undercut tools required
- Ingenious
- Completely removable - if necessary
- Dynamic
- Recommended in all dynamic applications including shock, seismic and fatigue
- Nuclear power plant approval
- Suitable for use in thin concrete members



Anchor length mm	Baseplate clearance hole mm	Effective anchorage depth mm	Hole depth mm	Length identification mark	Required torque Nm	tfix Max. thickness fastened mm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
150	21	100	107	I	50	20	M10	17	Undercut anchor HDA-T 20-M10*100/20	00331545	12
190	23	125	135	I	80	30	M12	19	Undercut anchor HDA-T 22-M12*125/30	00331548	8
210	23	125	135	N	80	50	M12	19	Undercut anchor HDA-T 22-M12*125/50	00331549	8
275	32	190	203	R	120	40	M16	24	Undercut anchor HDA-T 30-M16*190/40	00331552	4
295	32	190	203	S	120	60	M16	24	Undercut anchor HDA-T 30-M16*190/60	00331553	4
360	40	250	266	V	300	60	M20	30	Undercut anchor HDA-T 37-M20X250/50	00339267	2
410	40	250	266	X	300	100	M20	30	Undercut anchor HDA-T 37-M20X250/100	00339268	2

## HDA-TF Design Anchor

**Self-undercutting anchor for through fastening applications (steel grade 8.8, sherardised to 53 microns)**



Anchor length mm	Baseplate clearance hole mm	Effective anchorage depth mm	Hole depth mm	Length identification mark	Max. thickness fastened mm	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
150	21	100	107	I	20	50	M10	17	Undercut anchor HDA-TF 20-M10X100/20	00339361	12
190	23	125	135	L	30	80	M12	19	Undercut anchor HDA-TF 22-M12X125/30	00339362	8
210	23	125	135	N	50	80	M12	19	Undercut anchor HDA-TF 22-M12X125/50	00339363	8
275	32	190	203	R	40	120	M16	24	Undercut anchor HDA-TF 30-M16X190/40	00339364	4
295	32	190	203	S	60	120	M16	24	Undercut anchor HDA-TF 30-M16X190/60	00339365	4

## HDA-TR Design Anchor

**Self-undercutting anchor for through fastening applications (stainless steel as per DIN 1.4401)**



Anchor length mm	Baseplate clearance hole mm	Effective anchorage depth mm	Hole depth mm	Length identification mark	Max. thickness fastened mm	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
150	21	100	107	I	20	50	M10	17	Undercut anchor HDA-TR 20-M10X100/20	00339351	12
190	23	125	135	L	30	80	M12	19	Undercut anchor HDA-TR 22-M12X125/30	00339352	8
210	23	125	135	N	50	80	M12	19	Undercut anchor HDA-TR 22-M12X125/50	00339353	8
275	32	190	203	R	40	120	M16	24	Undercut anchor HDA-TR 30-M16X190/40	00339354	4
295	32	190	203	S	60	120	M16	24	Undercut anchor HDA-TR 30-M16X190/60	00339355	4

## HDA-P Design Anchor

**Self-undercutting anchor version presetting (steel grade 8.8, galvanised to minimum 5 microns)**



Anchor length mm	Baseplate clearance hole mm	Effective anchorage depth mm	Hole depth mm	Length identification mark	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
150	12	100	107	I	50	M10	17	Undercut anchor HDA-P 20-M10*100/20	00331544	12
190	14	125	135	L	80	M12	19	Undercut anchor HDA-P 22-M12*125/30	00331546	8
210	14	125	135	N	80	M12	19	Undercut anchor HDA-P 22-M12*125/50	00331547	8
275	18	190	203	R	120	M16	24	Undercut anchor HDA-P 30-M16*190/40	00331550	4
295	18	190	203	S	120	M16	24	Undercut anchor HDA-P 30-M16*190/60	00331551	4
360	22	250	266	V	300	M20	30	Undercut anchor HDA-P 37-M20X250/50	00339265	2
410	22	250	266	X	300	M20	30	Undercut anchor HDA-P 37-M20X250/100	00339266	2



## HDA-PF Design Anchor

**Self-undercutting anchor version presetting  
(steel grade 8.8, sherardised to 53 microns)**



Anchor length mm	Baseplate clearance hole mm	Effective anchorage depth mm	Hole depth mm	Length identification mark	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
150	12	100	107	I	50	M10	17	Undercut anchor HDA-PF 20-M10X100/20	00339356	12
190	14	125	135	L	80	M12	19	Undercut anchor HDA-PF 22-M12X125/30	00339357	8
210	14	125	135	N	80	M12	19	Undercut anchor HDA-PF 22-M12X125/50	00339358	8
275	18	190	203	R	120	M16	24	Undercut anchor HDA-PF 30-M16X190/40	00339359	4
295	18	190	203	S	120	M16	24	Undercut anchor HDA-PF 30-M16X190/60	00339360	4

## HDA-PR Design Anchor

**Self-undercutting anchor version presetting  
(stainless steel as per DIN 1.4401)**



Anchor length mm	Baseplate clearance hole mm	Effective anchorage depth mm	Hole depth mm	Length identification mark	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
150	12	100	107	I	50	M10	17	Undercut anchor HDA-PR 20-M10X100/20	00339346	12
190	14	125	135	L	80	M12	19	Undercut anchor HDA-PR 22-M12X125/30	00339347	8
210	14	125	135	N	80	M12	19	Undercut anchor HDA-PR 22-M12X125/50	00339348	8
275	18	190	203	R	120	M16	24	Undercut anchor HDA-PR 30-M16X190/40	00339349	4
295	18	190	203	S	120	M16	24	Undercut anchor HDA-PR 30-M16X190/60	00339350	4

## HDA Drill Bits

**Stepped drill bits for HDA anchors**



Working length mm	Order Description	Item Number	Sales Quantity
100	Stop drill bit TE-C HDA-B 20*100	00332089	1
120	Stop drill bit TE-C HDA-B 20*120	00332090	1
125	Stop drill bit TE-C HDA-B 22*125	00332091	1
155	Stop drill bit TE-C HDA-B 22*155	00332092	1
175	Stop drill bit TE-C HDA-B 22*175	00332093	1
190	Stop drill bit TE-Y HDA-B 30*190	00332097	1
230	Stop drill bit TE-Y HDA-B 30*230	00332098	1
250	Stop drill bit TE-Y HDA-B 30*250	00332099	1
300	Stop drill bit TE-Y HDA-B 37X300	00339271	1
350	Stop drill bit TE-Y HDA-B 37X350	00339272	1

## HDA Setting Tool

**Setting Tool for automatic setting of undercut anchors**



Order Description	Item Number	Sales Quantity
Setting tool TE-C-HDA-ST20-M10	00331843	1
Setting tool TE-C-HDA-ST22-M12	00331844	1
Setting tool TE-Y-HDA ST30-M16	00331846	1
Setting tool TE-Y-HDA-ST37-M20	00339269	1

## Dynamic Set HVZ/HDA

**Accessory for HDA and HVZ dynamic for fatigue loading**



Order Description	Item Number	Sales Quantity
Dynamic set M10	00369201	2
Dynamic set M12	00369202	2
Dynamic set M16	00369203	2
Dynamic set M20	00369204	2

## HSL-3-SK Heavy Duty Anchor

**Expansion anchor for heavy loads, countersunk head bolt version for use in cracked concrete (galvanized version)**



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Required torque Nm	Wrench size mm	Order Description	Item Number	Sales Quantity
80	13.5	80	10	25	6	Heavy-duty anchor HSL-3 M8/10 SK	00371825	40
91	13.5	80	20	25	6	Heavy-duty anchor HSL-3 M8/20 SK	00371826	40
102	16.5	90	20	50	8	Heavy-duty anchor HSL-3 M10/20 SK	00371827	20
121	20	105	25	80	10	Heavy-duty anchor HSL-3 M12/25 SK	00371828	20

## HSL-3-SH Heavy Duty Anchor

**Expansion anchor for heavy loads, socket head bolt version for use in cracked concrete (galvanized version), ETA approved**



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Required torque Nm	Socket size mm	Order Description	Item Number	Sales Quantity
88	14	85	5	20	6	Heavy-duty anchor HSL-3-SH M8/5	00377341	240
120	17	95	20	35	8	Heavy-duty anchor HSL-3-SH M10/20	00377342	160
142	20	110	25	60	10	Heavy-duty anchor HSL-3-SH M12/25	00377343	60

## HSL-3 Heavy Duty Anchor

Expansion anchor for heavy loads for use in cracked concrete (galvanized version), ETA approved



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Required torque Nm	Wrench size mm	Order Description	Item Number	Sales Quantity
83	14	80	5	25	13	Heavy-duty anchor HSL-3 M8/5	00371774	40
98	14	80	20	25	13	Heavy-duty anchor HSL-3 M8/20	00371775	40
118	14	80	40	25	13	Heavy-duty anchor HSL-3 M8/40	00371776	40
95	17	90	5	50	17	Heavy-duty anchor HSL-3 M10/5	00371777	20
110	17	90	20	50	17	Heavy-duty anchor HSL-3 M10/20	00371778	20
130	17	90	40	50	17	Heavy-duty anchor HSL-3 M10/40	00371779	20
111	20	105	5	80	19	Heavy-duty anchor HSL-3 M12/5	00371780	20
131	20	105	25	80	19	Heavy-duty anchor HSL-3 M12/25	00371781	20
156	20	105	50	80	19	Heavy-duty anchor HSL-3 M12/50	00371782	10
138	26	125	10	120	24	Heavy-duty anchor HSL-3 M16/10	00371783	10
153	26	125	25	120	24	Heavy-duty anchor HSL-3 M16/25	00371784	10
178	26	125	50	120	24	Heavy-duty anchor HSL-3 M16/50	00371785	10
163	31	155	10	200	30	Heavy-duty anchor HSL-3 M20/10	00371786	6
183	31	155	30	200	30	Heavy-duty anchor HSL-3 M20/30	00371787	6
213	31	155	60	200	30	Heavy-duty anchor HSL-3 M20/60	00371788	6
185	35	180	10	250	36	Heavy-duty anchor HSL-3 M24/10	00371789	4
205	35	180	30	250	36	Heavy-duty anchor HSL-3 M24/30	00371790	4
235	35	180	60	250	36	Heavy-duty anchor HSL-3 M24/60	00371791	4

## HSL-3-G Heavy Duty Anchor

Expansion anchor for heavy loads, stud version for use in cracked concrete (galvanized version), ETA approved



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Required torque Nm	Wrench size mm	Order Description	Item Number	Sales Quantity
87	14	80	5	20	13	Heavy-duty anchor HSL-3-G M8/5	00371792	40
102	14	80	20	20	13	Heavy-duty anchor HSL-3-G M8/20	00371793	40
122	14	80	40	20	13	Heavy-duty anchor HSL-3-G M8/40	00371794	40
182	14	80	100	20	13	Heavy-duty anchor HSL-3-G M8/100	00371829	20
100	17	90	5	35	17	Heavy-duty anchor HSL-3-G M10/5	00371795	20
115	17	90	20	35	17	Heavy-duty anchor HSL-3-G M10/20	00371796	20
135	17	90	40	35	17	Heavy-duty anchor HSL-3-G M10/40	00371797	20
195	17	90	100	35	17	Heavy-duty anchor HSL-3-G M10/100	00371830	20
119	20	105	5	60	19	Heavy-duty anchor HSL-3-G M12/5	00371798	20
139	20	105	25	60	19	Heavy-duty anchor HSL-3-G M12/25	00371799	20
164	20	105	50	60	19	Heavy-duty anchor HSL-3-G M12/50	00371800	10
214	20	105	100	60	19	Heavy-duty anchor HSL-3-G M12/100	00371831	10
148	26	125	10	80	24	Heavy-duty anchor HSL-3-G M16/10	00371801	10
163	26	125	25	80	24	Heavy-duty anchor HSL-3-G M16/25	00371802	10
188	26	125	50	80	24	Heavy-duty anchor HSL-3-G M16/50	00371803	10
238	26	125	100	80	24	Heavy-duty anchor HSL-3-G M16/100	00371832	10
170	31	155	10	160	30	Heavy-duty anchor HSL-3-G M20/10	00371804	6
190	31	155	30	160	30	Heavy-duty anchor HSL-3-G M20/30	00371805	6
220	31	155	60	160	30	Heavy-duty anchor HSL-3-G M20/60	00371806	6
260	31		100	160	30	Heavy-duty anchor HSL-3-G M20/100	00371833	6

## HSL-3-B Heavy Duty Anchor

Expansion anchor for heavy loads with torque controlled safety cap. No torque wrench needed. For use in cracked concrete (galvanized version), ETA approved



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Wrench size mm	Order Description	Item Number	Sales Quantity
117	20	105	5	24	Heavy-duty anchor HSL-3-B M12/5	00371807	20
137	20	105	25	24	Heavy-duty anchor HSL-3-B M12/25	00371808	20
162	20	105	50	24	Heavy-duty anchor HSL-3-B M12/50	00371809	10
144	26	125	10	30	Heavy-duty anchor HSL-3-B M16/10	00371810	10
159	26	125	25	30	Heavy-duty anchor HSL-3-B M16/25	00371811	10
184	26	125	50	30	Heavy-duty anchor HSL-3-B M16/50	00371812	10
169	31	155	10	36	Heavy-duty anchor HSL-3-B M20/10	00371813	6
189	31	155	30	36	Heavy-duty anchor HSL-3-B M20/30	00371814	6
219	31	155	60	36	Heavy-duty anchor HSL-3-B M20/60	00371815	6
191	35	180	10	41	Heavy-duty anchor HSL-3-B M24/10	00371816	4
211	35	180	30	41	Heavy-duty anchor HSL-3-B M24/30	00371817	4
241	35	180	60	41	Heavy-duty anchor HSL-3-B M24/60	00371818	4

## HSL-G-R Heavy Duty Anchor

Expansion anchor for heavy loads, stud version (stainless steel version)



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	h1 Min. hole depth mm	Max. thickness fastened mm	Required torque Nm	Thread diameter mm	Thread diameter (Emperic)	Wrench size mm	Order Description	Item Number	Sales Quantity
102	14	80	80		25	8		13	Heavy-duty anchor HSLGR M8/20	00067920	40
115	17	90	90	20	40	10		17	Heavy-duty anchor HSLGR M10/20	00067922	20
125	20	100		25	80	12	12	19	Heavy-duty anchor HSLGR M12/25	00067924	20
157	26	125	125		120	16	16	24	Heavy-duty anchor HSLGR M16/25	00067926	10
190	31	155	155	30	200	20	20	30	Heavy-duty anchor HSLGR M20/30	00067928	6

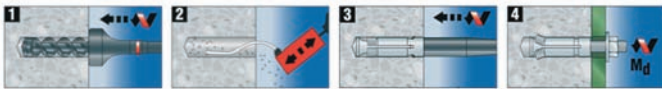
## HSC-A Safety Anchor

**Self-undercutting anchor with external thread for use anywhere in the compression or tension zone (galvanised version)**

Base Material	Approvals	Firestop
cracked and non-cracked concrete	ETA-02/0027	IBMB 3177/1722-1
hard natural stone		

### Applications:

- Medium duty fastenings in cracked or non-cracked concrete, especially when shallow embedment and/or small edge distance and spacing are/is required
- Examples are parking space barriers, seat attachment, balcony safety railings, satir hand rail, air ducts, fire escape, medium duty facade attachment etc.



### Features and Benefits

- Medium duty mechanical anchor for high safety fastenings
- Anchor working principle - keying action
- Maximum safety from keying action
- For use anywhere in the compression or tension zone
- Automatic undercut
- No undercut tool required
- An ordinary cylindrical hole is drilled
- No separate operation for undercutting
- Short setting time
- Undercutting by expansion sleeve in concrete with low expansion force
- Small distance between fastenings and from edge down to 5 cm
- Setting control integrated into anchor system
- Reliable undercut
- Setting mistakes are eliminated
- Simple visual check
- Independent of prior setting operations
- Shallow embedment depth (40/50/60) with depth-of-embedment mark
- Safeworking load of each anchor can be identified from the set anchor
- Shock proofed (use in civil defence shelters)
- Tested according to the hydrocarbon fire curve



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Min. embedment depth mm	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
71.5	9	46	15	40	10	M8	13	Safety anchor HSC-A M8*40/15	00031139	25
81.5	9	56	15	50	10	M8	13	Safety anchor HSC-A M8*50/15	00031141	25
79.5	11	46	20	40	20	M10	17	Safety anchor HSC-A M10*40/20	00031140	25
103.5	13.5	68	20	60	30	M12	19	Safety anchor HSC-A M12*60/20	00015507	20



# HSC-AR Safety anchor

**Self-undercutting anchor with external thread for use anywhere in the compression or tension zone (stainless steel version)**

Base Material	Approvals	Firestop
cracked and non-cracked concrete	ETA-02/0028	IBMB 3177/1722-1
hard natural stone		

## Applications:

- Medium duty fastenings in cracked or non-cracked concrete, especially when shallow embedment and/or small edge distance and spacing are/is required
- Examples are parking space barriers, seat attachment, balcony safety railings, satir hand rail, air ducts, fire escape, medium duty facade attachment etc.



## Features and Benefits

- Medium duty mechanical anchor for high safety fastenings
- Anchor working principle - keying action
- Maximum safety from keying action
- For use anywhere in the compression or tension zone
- Automatic undercut
- No undercut tool required
- An ordinary cylindrical hole is drilled
- No separate operation for undercutting
- Short setting time
- Undercutting by expansion sleeve in concrete with low expansion force
- Small distance between fastenings and from edge down to 5 cm
- Setting control integrated into anchor system
- Reliable undercut
- Setting mistakes are eliminated
- Simple visual check
- Independent of prior setting operations
- Shallow embedment depth (40/50/60) with depth-of-embedment mark
- Safeworking load of each anchor can be identified from the set anchor
- Shock proofed (use in civil defence shelters)
- Tested according to the hydrocarbon fire curve



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Min. embedment depth mm	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
71.5	9	46	15	40	10	M8	13	Safety anchor HSC-AR M8*40/15	00031148	25
81.5	9	46	15	50	10	M8	13	Safety anchor HSC-AR M8*50/15	00031150	25
79.5	11	46	20	40	20	M10	17	Safety anchor HSC-AR M10*40/20	00031149	25
103.5	13.5	68	20	60	30	M12	19	Safety anchor HSC-AR M12*60/20	00015506	20

## HSC-I Safety Anchor

**Self-undercutting anchor with internal thread for use anywhere in the compression or tension zone (galvanised version)**



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Min. embedment depth mm	Required torque Nm	Thread diameter	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
43	6.6	46	40	10	M6	6 - 16	10	Safety anchor HSC-I M6*40	00031142	25
43.5	9	46	40	10	M8	8 - 22	13	Safety anchor HSC-I M8*40	00031143	25
54.5	11	56	50	20	M10	10 - 28	17	Safety anchor HSC-I M10*50	00031144	25
64.5	11	68	60	30	M10	10 - 28	17	Safety anchor HSC-I M10*60	00031145	25
64.5	13.5	68	60	30	M12	12 - 30	19	Safety anchor HSC-I M12*60	00031146	25

## HSC-IR Safety Anchor

**Self-undercutting anchor with internal thread for use anywhere in the compression or tension zone (stainless steel version)**



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
43	6.6	46	10	M6	6 - 16	10	Safety anchor HSC-IR M6*40	00031151	25
43.5	9	46	10	M8	8 - 22	13	Safety anchor HSC-IR M8*40	00031152	25
54.5	11	56	20	M10	10 - 28	17	Safety anchor HSC-IR M10*50	00031153	25
64.5	11	68	30	M10	10 - 28	17	Safety anchor HSC-IR M10*60	00031154	25
64.5	13.5	68	30	M12	12 - 30	19	Safety anchor HSC-IR M12*60	00031155	25

## HSC Setting Tools

### Machine setting tools



Order Description	Item Number	Sales Quantity
Setting tool TE-C-HSC-MW14	00031169	1
Setting tool TE-C-HSC-MW16	00011267	1
Setting tool TE-C HSC-MW18	00071352	1
Setting tool TE-C-HSC-MW20	00071353	1

## HSC Setting Drill Bits

### Stepped drill bits

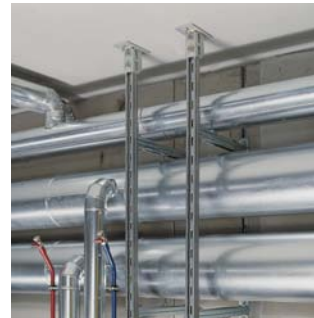


Order Description	Item Number	Sales Quantity
Stop drill bit TE-C HSC-B 14*40	00031157	1
Stop drill bit TE-C HSC-B 14*50	00031158	1
Stop drill bit TE-C HSC-B 16*40	00028568	1
Stop drill bit TE-C HSC-B 18*50	00030708	1
Stop drill bit TE-C HSC-B 18*60	00030709	1
Stop drill bit TE-C HSC-B 20*60	00030710	1

# HST Stud Anchor

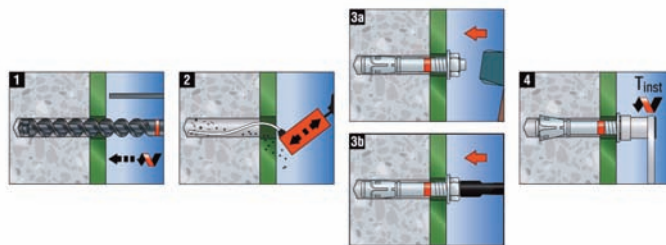
**Expansion anchor for use in cracked concrete with unique wedge design (galvanised version)**

Base Material	Approvals	Firestop
cracked and non-cracked concrete	ETA-98/0001	IBMB 3332/0881-1
hard natural stone		



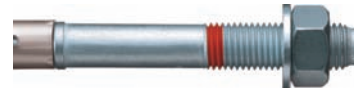
## Applications:

Safety relevant medium duty fastenings in cracked concrete like installation, facade, base plates etc. especially when fastening through the fixture is required



## Features and Benefits

- High performance stud anchor. The optimised design of cone and wedge, combined with a special steel quality and coatings, ensure the outstanding performance
- Suitable for applications in cracked concrete as defined in the European building code - Eurocode 2
- All relevant approvals for a stud anchor included (ETA for cracked concrete, Shock (Switzerland - BZS), Fire (Germany - IBMB), FM (Factory Mutual)
- Excellent permitted edge and spacing distances
- Comprehensive product offering includes a large variety of sizes (from M8 to M24) and materials (carbon steel zinc plated, A4/316 stainless steel, and HCR (1.4529 - high corrosion resistant) for a variety of applications
- Cold formed (galvanised anchors do not break)
- Excellent setting behaviour
- Anchor size is same as drill bit size for easy installation
- Mechanical expansion allows immediate load application
- Can be installed through the fixture, improving productivity
- Impact section (dog point) prevents thread damage during installation
- Independent 3-piece wedge design prevents anchor from spinning during installation



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
75	9	65	20	M8	25	13	Safety stud anchor HST M8X75/10	00371581	100
95	9	65	20	M8	45	13	Safety stud anchor HST M8X95/30	00371582	100
115	9	65	20	M8	65	13	Safety stud anchor HST M8X115/50	00371583	50
90	12	80	45	M10	30	17	Safety stud anchor HST M10X90/10	00371584	50
110	12	80	45	M10	50	17	Safety stud anchor HST M10X110/30	00371585	50
130	12	80	45	M10	70	17	Safety stud anchor HST M10X130/50	00371586	25
115	14	95	60	M12	45	19	Safety stud anchor HST M12X115/20	00371587	25
145	14	95	60	M12	75	19	Safety stud anchor HST M12X145/50	00371588	25
185	14	95	60	M12	115	19	Safety stud anchor HST M12X185/90	00371589	25
215	14	95	60	M12	145	19	Safety stud anchor HST M12X215/120	00371590	25
235	14	95	60	M12	165	19	Safety stud anchor HST M12X235/140	00371591	25
255	14	95	60	M12	180	19	Safety stud anchor HST M12X255/160	00371592	25
140	18	115	110	M16	55	24	Safety stud anchor HST M16X140/25	00371593	12
165	18	115	110	M16	80	24	Safety stud anchor HST M16X165/50	00371594	12
215	18	115	110	M16	130	24	Safety stud anchor HST M16X215/100	00371595	12
255	18	115	110	M16	170	24	Safety stud anchor HST M16X255/140	00371596	12
295	18	115	110	M16	180	24	Safety stud anchor HST M16X295/180	00371597	12
170	22	140	240	M20	65	30	Safety stud anchor HST M20X170/30	00371598	5
200	22	140	240	M20	95	30	Safety stud anchor HST M20X200/60	00371599	5
270	22	140	240	M20	165	30	Safety stud anchor HST M20X270/130	00371600	5
200	26	170	300	M24	60	36	Safety stud anchor HST M24X200/30	00371601	5
230	26	170	300	M24	60	36	Safety stud anchor HST M24X230/60	00371602	5

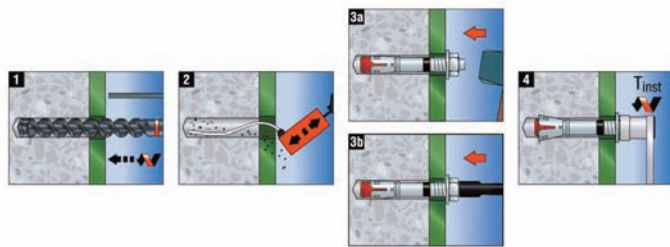
## HST-R Stud Anchor

**Expansion anchor for use in cracked concrete with unique wedge design (stainless steel version)**

Base Material	Approvals	Firestop
cracked and non-cracked concrete	ETA-98/0002	IBMB 3332/0881-1
hard natural stone		

### Applications:

Safety relevant medium duty fastenings in cracked concrete like installation, facade, base plates etc. especially when fastening through the fixture is required



### Features and Benefits

- High performance stud anchor. The optimised design of cone and wedge, combined with a special steel quality and coatings, ensure the outstanding performance
- Suitable for applications in cracked concrete as defined in the European building code - Eurocode 2
- All relevant approvals for a stud anchor included (ETA for cracked concrete, Shock (Switzerland - BZS), Fire (Germany - IBMB), FM (Factory Mutual)
- Excellent permitted edge and spacing distances
- Comprehensive product offering includes a large variety of sizes (from M8 to M24) and materials (carbon steel zinc plated, A4/316 stainless steel, and HCR (1.4529 - high corrosion resistant) for a variety of applications
- Cold formed (galvanised anchors do not break)
- Excellent setting behaviour
- Anchor size is same as drill bit size for easy installation
- Mechanical expansion allows immediate load application
- Can be installed through the fixture, improving productivity
- Impact section (dog point) prevents thread damage during installation
- Independent 3-piece wedge design prevents anchor from spinning during installation



Anchor length mm	Baseplate clearance hole mm	Required torque Nm	Thread diameter	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
75	9	20	M8	25	13	Safety stud anchor HST-R M8X75/10	00376039	50
95	9	20	M8	45	13	Safety stud anchor HST-R M8X95/30	00376041	50
115	9	20	M8	65	13	Safety stud anchor HST-R M8X115/50	00376042	50
90	12	40	M10	30	17	Safety stud anchor HST-R M10X90/10	00376043	50
110	12	40	M10	50	17	Safety stud anchor HST-R M10X110/30	00376044	50
130	12	40	M10	70	17	Safety stud anchor HST-R M10X130/50	00376045	25
160	12	40	M10	96	17	Safety stud anchor HST-R M10X160/80	00376046	25
115	14	60	M12	45	19	Safety stud anchor HST-R M12X115/20	00376047	25
145	14	60	M12	75	19	Safety stud anchor HST-R M12X145/50	00376048	25
185	14	60	M12	115	19	Safety stud anchor HST-R M12X185/90	00376049	25
215	14	60	M12	145	19	Safety stud anchor HST-R M12X215/120	00376050	25
140	18	110	M16	40	24	Safety stud anchor HST-R M16X140/25	00376051	12
165	18	110	M16	40	24	Safety stud anchor HST-R M16X165/50	00376052	12
215	18	110	M16	40	24	Safety stud anchor HST-R M16X215/100	00376053	12
255	18	110	M16	40	24	Safety stud anchor HST-R M16X255/140	00376054	12
295	18	110	M16	40	24	Safety stud anchor HST-R M16X295/180	00376055	12
170	22	240	M20	45	30	Safety stud anchor HST-R M20X170/30	00376056	5
200	22	240	M20	45	30	Safety stud anchor HST-R M20X200/60	00376057	5
200	26	300	M24	55	36	Safety stud anchor HST-R M24X200/30	00376058	5
230	26	300	M24	55	36	Safety stud anchor HST-R M24X230/60	00376059	5



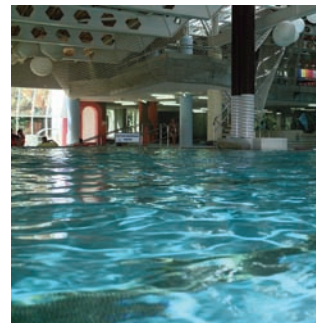
# HST-HCR Stud Anchor

**Expansion anchor for use in cracked concrete with unique wedge design (high corrosion resistance steel as per DIN 1.4529).**

Base Material	Approvals	Firestop
cracked and non-cracked concrete	ETA-04/0031	IBMB 3332/0881-1 IBMB 3332/0881-2

## Applications:

Safety relevant medium duty fastenings in cracked concrete like installation, facade, base plates etc. especially when fastening through the fixture is required



## Features and Benefits

- High performance stud anchor. The optimised design of cone and wedge, combined with a special steel quality and coatings, ensure the outstanding performance
- Suitable for applications in cracked concrete as defined in the European building code - Eurocode 2
- All relevant approvals for a stud anchor included (ETA for cracked concrete, Shock (Switzerland - BZS), Fire (Germany - IBMB), FM (Factory Mutual)
- Excellent permitted edge and spacing distances
- Comprehensive product offering includes a large variety of sizes (from M8 to M24) and materials (carbon steel zinc plated, A4/316 stainless steel, and HCR (1.4529 - high corrosion resistant) for a variety of applications
- Cold formed (galvanised anchors do not break)
- Excellent setting behaviour
- Anchor size is same as drill bit size for easy installation
- Mechanical expansion allows immediate load application
- Can be installed through the fixture, improving productivity
- Impact section (dog point) prevents thread damage during installation
- Independent 3-piece wedge design prevents anchor from spinning during installation



Anchor length mm	Baseplate clearance hole mm	Thread length mm	Order Description	Item Number	Sales Quantity
75	9	25	Safety stud anchor HST-HCR M8X75/10	00376060	20
95	9	25	Safety stud anchor HST-HCR M8X95/30	00376061	20
115	9	25	Safety stud anchor HST-HCR M8X115/50	00376062	20
90	12	30	Safety stud anchor HST-HCR M10X90/10	00376063	20
110	12	30	Safety stud anchor HST-HCR M10X110/30	00376064	20
130	12	30	Safety stud anchor HST-HCR M10X130/50	00376065	20
115	14	35	Safety stud anchor HST-HCR M12X115/20	00376066	10
145	14	35	Safety stud anchor HST-HCR M12X145/50	00376067	10
185	14	35	Safety stud anchor HST-HCR M12X185/90	00376068	10
215	14	35	Safety stud anchor HST-HCR M12X215/120	00376069	10
140	18	40	Safety stud anchor HST-HCR M16X140/25	00376070	10
165	18	40	Safety stud anchor HST-HCR M16X165/50	00376071	10
215	18	40	Safety stud anchor HST-HCR M16X215/100	00376072	10
255	18	40	Safety stud anchor HST-HCR M16X255/140	00376073	10
295	18	40	Safety stud anchor HST-HCR M16X295/180	00376074	10

## HSA/HST Setting Tool

**Automatic setting tool for comfortable setting of stud anchors (HSA/HST M6 - M12)**



Order Description	Item Number	Sales Quantity
Setting tool HS-SC 150	00337918	1
Setting tool HS-SC 300	00337919	1



## HSA Stud Anchor

**Expansion anchor with unique wedge design assembled with nut and washer (galvanised version)**

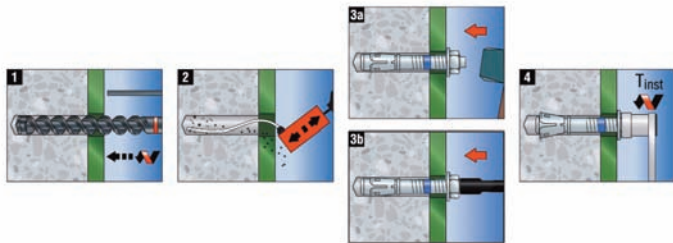
Base Material	Approvals	Firestop
non-cracked concrete	ETA-99/0001	IBMB 3049/8151

### Applications:

Medium duty fastenings in non cracked concrete like

- High racks
- Warehouse roof structures
- Guard rails etc.

especially when fastening through the fixture is required



### Features and Benefits

- European technical approval (ETA) and fire approval (Germany - IBMB)
- Comprehensive product offering includes a large variety of sizes (from M6 to M20) and materials (carbon steel zinc plated, hot dipped galvanised and A4/316 stainless steel) for a variety of applications
- Cold formed (galvanised anchors do not break)
- 2 embedment depths defined (in ETA) with different load bearing capacity for increased flexibility regarding fastening thickness and minimum depth of the bore hole
- Head marking - length of anchors can be identified after setting (provides a visual check as to whether or not the required minimum embedment depth has been satisfied)
- Impact section (Dog Point) prevents thread damage during installation
- Independent 3-piece wedge design ensures smooth load transfer and prevents anchor from spinning during installation
- Anchor size is same as drill bit size for easy installation
- Mechanical expansion allows immediate load application
- Can be installed through the fixture, improving productivity



Anchor length mm	Baseplate clearance hole mm	Length identification mark	Max. fixture thickness (reduced)	Required torque Nm	tfix Max. thickness fastened mm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
68	12	C	—	30	< 5	M10	17	Std stud anchor HSA M10X68/-/5	00255839	50
90	12	E	25	30	20 - 25	M10	17	Std stud anchor HSA M10X90/20/25	00255840	50
108	12	F	25	30	37 - 45	M10	17	Std stud anchor HSA M10X108/37/45	00255841	50
120	12	G	57	30	50 - 57	M10	17	Std stud anchor HSA M10X120/50/57	00255842	50
80	14	D	5	50	< 5	M12	19	Std stud anchor HSA M12X80/-/5	00255844	25
100	14	E	25	50	5 - 25	M12	19	Std stud anchor HSA M12X100/5/25	00255845	25
120	14	G	45	50	25 - 45	M12	19	Std stud anchor HSA M12X120/25/45	00255846	25
150	14	I	75	50	55 - 75	M12	19	Std stud anchor HSA M12X150/55/75	00255847	25
180	14	L	105	50	85 - 105	M12	19	Std stud anchor HSA M12X180/85/105	00255848	25
220	14	O	145	50	125 - 145	M12	19	Std stud anchor HSA M12X220/125/145	00255849	25
240	14	P	165	50	145 - 165	M12	19	Std stud anchor HSA M12X240/145/165	00255850	25
300	14	S	225	50	205 - 225	M12	19	Std stud anchor HSA M12X300/205/225	00255851	25
100	18	E		100	< 5	M16	24	Std stud anchor HSA M16X100/-/5	00255852	16
120	18	G	25	100	5 - 25	M16	24	Std stud anchor HSA M16X120/5/25	00255853	16
140	18	I		100	25 - 40	M16	24	Std stud anchor HSA M16X140/25/45	00255854	16
190	18	L	95	100	75 - 95	M16	24	Std stud anchor HSA M16X190/75/95	00255855	16
240	18	P	145	100	125 - 145	M16	24	Std stud anchor HSA M16X240/125/145	00255856	16
50	7	A		5	< 5	M6	10	Std stud anchor HSA M6X50/-/5	00255830	200
65	7	C		5	10 - 20	M6	10	Std stud anchor HSA M6X65/10/20	00255831	200
85	7	D	40	5	30 - 40	M6	10	Std stud anchor HSA M6X85/30/40	00255832	100
100	7	E		5	45 - 55	M6	10	Std stud anchor HSA M6X100/45/55	00255833	100
125	22	G		200	< 10	M20	30	Std stud anchor HSA M20X125/-/10	00255857	10
170	22	K	55	200	30 - 55	M20	30	Std stud anchor HSA M20X170/30/55	00255858	10
57	9	B		15	< 5	M8	13	Std stud anchor HSA M8X57/-/5	00255834	100
75	9	C		15	10 - 23	M8	13	Std stud anchor HSA M8X75/10/23	00255835	100
92	9	E		15	27 - 40	M8	13	Std stud anchor HSA M8X92/27/40	00255836	100
115	9	G		15	50 - 63	M8	13	Std stud anchor HSA M8X115/50/63	00255837	50
137	9	H		15	72 - 85	M8	13	Std stud anchor HSA M8X137/72/85	00255838	50

## HSA-F Stud Anchor

Expansion anchor with unique wedge design assembled with nut and washer (hot dipped galvanised version)



Anchor length mm	Baseplate clearance hole mm	Length identification mark	Max. thickness fastened mm	Required torque Nm	Thread diameter	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
68	12	C	–	30	M10	25	17	Std stud anchor HSA-F M10X68/-/5	00337126	50
90	12	E	20	30	M10	28	17	Std stud anchor HSA-F M10X90/20/25	00337127	50
108	12	F	37	30	M10	60	17	Std stud anchor HSA-F M10X108/37/45	00337128	50
120	12	G	50	30	M10	72	17	Std stud anchor HSA-F M10X120/50/57	00337129	50
80	14	D	–	50	M12	30	19	Std stud anchor HSA-F M12X80/-/5	00337130	25
100	14	E	5	50	M12	32	19	Std stud anchor HSA-F M12X100/5/25	00337131	25
120	14	G	25	50	M12	65	19	Std stud anchor HSA-F M12X120/25/45	00337132	25
150	14	I	55	50	M12	95	19	Std stud anchor HSA-F M12X150/55/75	00337133	25
240	14	P	145	50	M12	180	19	Std stud anchor HSA-F M12X240/145/165	00338261	25
100	18	E	–	100	M16	35	24	Std stud anchor HSA-F M16X100/-/5	00337134	16
140	18	I	25	100	M16	70	24	Std stud anchor HSA-F M16X140/25/45	00337135	16
190	18	L	75	100	M16	120	24	Std stud anchor HSA-F M16X190/75/95	00337136	16
170	22	K	30	200	M20	85	30	Std stud anchor HSA-F M20X170/30/55	00337137	10
50	7	A	–	5	M6	15	10	Std stud anchor HSA-F M6X50/-/5	00338260	200
65	7	C	10	5	M6	30	10	Std stud anchor HSA-F M6X65/10/20	00337121	200
57	9	B	–	15	M8	20	13	Std stud anchor HSA-F M8X57/-/5	00337122	100
75	9	C	10	15	M8	35	13	Std stud anchor HSA-F M8X75/10/23	00337123	100
92	9	E	27	15	M8	52	13	Std stud anchor HSA-F M8X92/27/40	00337124	100
137	9	H	72	15	M8	97	13	Std stud anchor HSA-F M8X137/72/85	00337125	50

## HSA-I Stud Anchor

Inner threaded expansion anchor with unique wedge design (galvanised version)



Anchor length mm	Thread length mm	Order Description	Item Number	Sales Quantity
45	15	Std stud anchor HSA-I M6/15	00338789	100
50	17	Std stud anchor HSA-I M8/17	00338790	100
55	17	Std stud anchor HSA-I M10/17	00338791	50
68	20	Std stud anchor HSA-I M12/20	00338792	25

## HSA-IR Stud Anchor Stainless

Inner threaded expansion anchor with unique wedge design



Thread length mm	Order Description	Item Number	Sales Quantity
17	Std stud anchor HSA-IR M10/17	00338795	50
20	Std stud anchor HSA-IR M12/20	00338796	25
15	Std stud anchor HSA-IR M6/15	00338793	100
17	Std stud anchor HSA-IR M8/17	00338794	100

## HSA-K Stud Anchor

Expansion anchor with unique wedge design with nut and washer unassembled (galvanised version)



Anchor length mm	Baseplate clearance hole mm	Length identification mark	Max. fixture thickness (reduced) mm	Required torque Nm	Thread diameter	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
68	12	C	5	30	M10	25	17	Std stud anchor HSA-K M10X68/5	00229930	50
90	12	E	26	30	M10	42	17	Std stud anchor HSA-K M10X90/25	00229931	50
108	12	F	45	30	M10	60	17	Std stud anchor HSA-K M10X108/45	00229932	50
80	14	D	5	50	M12	30	19	Std stud anchor HSA-K M12X80/5	00229933	25
100	14	E	25	50	M12	45	19	Std stud anchor HSA-K M12X100/25	00229934	25
150	14	I	75	50	M12	95	19	Std stud anchor HSA-K M12X150/75	00229935	25
180	14	L	105	50	M12	125	19	Std stud anchor HSA-K M12X180/105	00229936	25
240	14	P	165	50	M12	180	19	Std stud anchor HSA-K M12X240/165	00229937	25
100	18	E	5	100	M16	35	24	Std stud anchor HSA-K M16X100/5	00229958	20
140	18	I	45	100	M16	70	24	Std stud anchor HSA-K M16X140/45	00229938	20
190	18	L	95	100	M16	120	24	Std stud anchor HSA-K M16X190/95	00229939	20
50	7	A	5	5	M6	15	10	Std stud anchor HSA-K M6X50/5	00229923	200
65	7	C	20	5	M6	30	10	Std stud anchor HSA-K M6X65/20	00229924	200
85	7	D	40	5	M6	50	10	Std stud anchor HSA-K M6X85/40	00229925	200
57	9	B	5	15	M8	20	13	Std stud anchor HSA-K M8X57/5	00229926	100
75	9	C	23	15	M8	35	13	Std stud anchor HSA-K M8X75/23	00229927	100
92	9	E	40	15	M8	52	13	Std stud anchor HSA-K M8X92/40	00229928	100
137	9	H	85	15	M8	97	13	Std stud anchor HSA-K M8X137/85	00229929	100

## HSA-R Stud Anchor

Expansion anchor with unique wedge design assembled with nut and washer (stainless steel version)



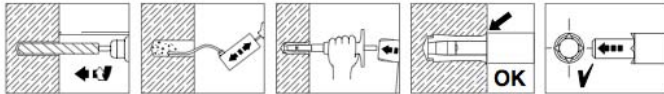
Anchor length mm	Baseplate clearance hole mm	Length identification mark	Required torque Nm	t <sub>fix</sub> Max. thickness fastened mm	Thread diameter	Thread length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
57	9	B	15	—	M8	20	13	Std stud anchor HSA-R M8X57/-/5	00332186	100
75	9	C	15	10 - 23	M8	35	13	Std stud anchor HSA-R M8X75/10/23	00332187	100
92	9	E	15	27 - 40	M8	52	13	Std stud anchor HSA-R M8X92/27/40	00332188	100
115	9	G	15	50 - 63	M8	75	13	Std stud anchor HSA-R M8X115/50/63	00332189	50
68	12	C	30	—	M10	25	17	Std stud anchor HSA-R M10X68/-/5	00332190	50
90	12	E	30	20 - 25	M10	48	17	Std stud anchor HSA-R M10X90/20/25	00332191	50
120	12	G	30	50 - 57	M10	72	17	Std stud anchor HSA-R M10X120/50/57	00332192	50
80	14	D	50	—	M12	30	19	Std stud anchor HSA-R M12X80/-/5	00332193	25
100	14	E	50	5 - 25	M12	50	19	Std stud anchor HSA-R M12X100/5/25	00332194	25
120	14	G	50	25 - 45	M12	50	19	Std stud anchor HSA-R M12X120/25/45	00332195	25
100	18	E	100	—	M16	35	24	Std stud anchor HSA-R M16X100/-/5	00337116	16
140	18	I	100	20 - 45	M16	70	24	Std stud anchor HSA-R M16X140/25/45	00337117	16
190	18	L	100	75 - 95	M16	120	24	Std stud anchor HSA-R M16X190/75/95	00337118	16
125	22	G	200	—	M20	45	30	Std stud anchor HSA-R M20X125/-/10	00337119	10
170	22	K	200	30 - 55	M20	85	30	Std stud anchor HSA-R M20X170/30/55	00337120	10
50	7	A	5	—	M6	15	10	Std stud anchor HSA-R M6X50/-/5	00332183	200
65	7	C	5	10 - 20	M6	30	10	Std stud anchor HSA-R M6X65/10/-	00332184	200
85	7	D	5	30 - 40	M6	50	10	Std stud anchor HSA-R M6X85/30/-	00332185	100

## HKD-S Flush Anchor

**Internally threaded anchor with flared end for flush setting (galvanised version)**

### Applications:

- Suspended ceilings
- Pipe fixing
- Cable trays
- Scaffolding
- Temporary applications in solid concrete



### Features and Benefits

- Flared end
- For accurate setting flush with the surface, independent of hole depth
- Full expansion
- Cone design permits the full expansion of the anchor in both low-strength and high-strength material
- No thread damage when hammering the anchor into the hole
- Easy setting
- Visual verification of full expansion
- The setting tool leaves a mark on the flared end that indicates proper expansion
- Increased security
- Manual setting tool with ergonomic hand guard
- Better grip
- Size gauge for quick check that the right tool is used
- Polygonal top that protects from injuries
- Expansion mandrel
- Mechanical setting tool for TE drilling machines
- Ideal for serial applications
- Also available in A4 stainless steel
- Also available buckets when bigger quantities are required



Anchor length mm	Anchor size	Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Thread length mm	Order Description	Item Number	Sales Quantity
25	M6	7	27	5	M6	11	Flush anchor HKD-S M6X25	00242861	100
25	M6	7	27	5	M6	11	Flush anchor HKD-S M6X25 BUCKET	00254434	1000
30		7	32	4		11	Flush anchor HKD-S M6X30	00242862	100
30	M8	9	33	8	M8	13	Flush anchor HKD-S M8X30	00242866	100
30	M8	9	33	8	M8	13	Flush anchor HKD-S M8X30 BUCKET	00251932	500
40	M8	9	43	8		13	Flush anchor HKD-S M8X40	00242867	50
30	M10	11	33	15	M10	12	Flush anchor HKD-S M10X30 BUCKET	00248123	500
40	M10	11	43	15	M10	15	Flush anchor HKD-S M10X40	00242869	50
40	M10	11	43	15	M10	15	Flush anchor HKD-S M10X40 BUCKET	00248124	500
50	M12	13.5	54	35	M12	18	Flush anchor HKD-S M12X50	00242871	50
50	M12	13.5	54	35	M12	18	Flush anchor HKD-S M12X50 BUCKET	00248126	250
65	M16	17.5	70	60	M16	23	Flush anchor HKD-S M16X65	00242873	25
80	M20	22	85	120	M20	34	Flush anchor HKD-S M20X80	00242875	25

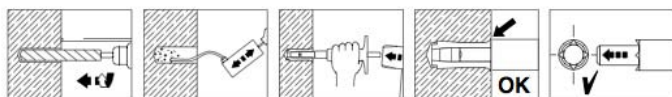
## HKD-SR Flush Anchor

**Internally threaded anchor with flared end for flush setting (stainless steel version)**

Base Material	Approvals	Firestop
non-cracked concrete	ETA-02/0033	IBMB 3027/0274-4
cracked concrete	Z-21.1-1505	IBMB 3027/0274-4
natural stone, hard		

### Applications:

- Suspended ceilings
- Pipe fixing
- Cable trays, etc.



### Features and Benefits

- Flared end
- For accurate setting flush with the surface, independent of hole depth
- Full expansion
- Cone design permits the full expansion of the anchor in both low-strength and high-strength material
- No thread damage when hammering the anchor into the hole
- Easy setting
- Visual verification of full expansion
- The setting tool leaves a mark on the flared end that indicates proper expansion
- Increased security
- Manual setting tool with ergonomic hand guard
- Better grip
- Size gauge for quick check that the right tool is used
- Polygonal top that protects from injuries
- Expansion mandrel
- Mechanical setting tool for TE drilling machines
- Ideal for serial applications
- Also available in A4 stainless steel
- Also available buckets when bigger quantities are required



Anchor length mm	Anchor size	Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Thread length mm	Order Description	Item Number	Sales Quantity
25	M6	7	27	5	M6	11	Flush anchor HKD-SR M6X25	00247951	100
30	M8	9	33	10	M8	13	Flush anchor HKD-SR M8X30	00247952	100
40	M10	11	43	20	M10	15	Flush anchor HKD-SR M10X40	00247953	50
50	M12	13.5	54	40	M12	18	Flush anchor HKD-SR M12X50	00247954	50
65	M16	17.5	70	80	M16	23	Flush anchor HKD-SR M16X65	00247955	25
80	M20	22	85	160	M20	34	Flush anchor HKD-SR M20X80	00247956	25



## HKD-E Flush Anchor

**Internally threaded anchor for through fastenings (galvanised version)**

Base Material	Approvals	Firestop
concrete C12/15 (B15)	Z-21.2-599	Z-21.2-599
	Z-21.2-599	Z-21.2-599
	Z-21.2-599	Z-21.2-599
natural stone, hard		

### Applications:

- Suspended ceilings
- Pipe fixing
- Cable trays
- Scaffolding
- Temporary applications in solid concrete

### Features and Benefits

- No flared end
- For easy setting in greater depth
- Full expansion
- Cone design permits the full expansion of the anchor in both low-strength and high-strength material
- No thread damage when hammering the anchor into the hole
- Easy setting
- Visual verification of full expansion
- The setting tool leaves a mark on the flared end that indicates proper expansion
- Increased security
- Manual setting tool with ergonomic hand guard
- Better grip
- Size gauge for quick check that the right tool is used
- Polygonal top that protects from injuries
- Expansion mandrel
- Mechanical setting tool for TE drilling machines
- Ideal for serial applications
- Also available in A4 stainless steel
- Also available buckets when bigger quantities are required



Anchor length mm	Anchor size	Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Thread length mm	Order Description	Item Number	Sales Quantity
25	M6	7	27	5	M6	11	Flush anchor HKD-E M6x25 BUCKET	00334432	1000
30	M8	9	33	10	M8	13	Flush anchor HKD-E M8X30	00252962	100
30	M8	9	33	10	M8	13	Flush anchor HKD-E M8x30 BUCKET	00334433	500
40	M10	11	43	20	M10	15	Flush anchor HKD-E M10X40	00252963	50
40	M10	11	43	20	M10	15	Flush anchor HKD-E M10x40 BUCKET	00334434	500
50	M12	13.5	54	40	M12	18	Flush anchor HKD-E M12X50	00258044	50
50	M12	13.5	55	40	M12	18	Flush anchor HKD-E M12x50 BUCKET	00334435	250
65	M16	17.5	70	80	M16	23	Flush anchor HKD-E M16X65	00258045	25

## HKD-D Flush Anchor

**Internally threaded anchor specially designed for fastening diamond core drilling systems**



Anchor size	Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Thread length mm	Order Description	Item Number	Sales Quantity
M12	13.5	54	50	M12	18	Flush anchor HKD-D M12X50	00252961	50
M12	13.5		54	M12	18	Flush anchor HKD-D M12X50 BUCKET	00340957	250

## HDI-P/HKD Hand Setting Tool

For easy anchor setting



Order Description	Item Number	Sales Quantity
Setting tool HSD-G M6 1/4"X25	00243738	1
Setting tool HSD-G M8 5/16"X30	00243740	1
Setting tool HSD-G M8 5/16"X40	00243741	1
Setting tool HSD-G 3/8X20	00247776	1
Setting tool HSD-G M10 3/8"x30	00230935	1
Setting tool HSD-G M10 3/8"X40	00243742	1
Setting tool HSD-G M12 1/2"X50	00243743	1
Setting tool HSD-G M16 5/8"X65	00243744	1
Setting tool HSD-G M20 3/4"X80	00243745	1

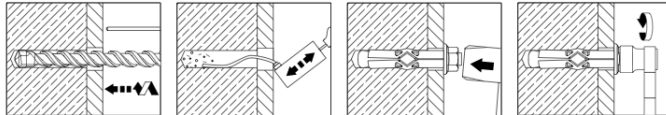
## HLC Sleeve Anchor

### Universal anchor, stud version

Base Material	Approvals	Firestop
concrete	-	IBMB 3304/1255-2
solid bricks	-	IBMB 3133/0856-2
sand-lime bricks	-	Z-21.2-599

#### Applications:

Suitable for a large range of temporary applications, fixing of small devices etc.



#### Features and Benefits

- Variety of lengths and sizes allows for a multitude of applications
- Pre assembled anchor to ensure easy and fast installation
- Suitable for different base materials due to expansion principle
- Ideal for through fastening applications
- Easily removable ideal for temporary fastenings
- Practical imprint in the sleeve that shows the right drill bit required
- Bulged middle section of sleeve with triangular diamond shaped openings prevent the anchor from twisting in its hole or dropping out of an overhead hole



Anchor length mm	Anchor size	Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter mm	Order Description	Item Number	Sales Quantity
48	M8	11	47	25	8	Sleeve anchor HLC 10X40/8	00230775	50
58	M8	11	47	25	8	Sleeve anchor HLC 10X50/18	00230776	50
68	M8	11	47	25	8	Sleeve anchor HLC 10X60/28	00230777	50
88	M8	11	47	25	8	Sleeve anchor HLC 10X80/48	00230778	50
108	M8	11	47	25	8	Sleeve anchor HLC 10X100/68	00230779	50
65	M10	13	56	40	10	Sleeve anchor HLC 12X55/17	00230780	50
85	M10	13	56	40	10	Sleeve anchor HLC 12X75/37	00230781	50
110	M10	13	56	40	10	Sleeve anchor HLC 12X100/62	00230782	25
72	M12	17	72	50	12	Sleeve anchor HLC 16X60/12	00230783	25
112	M12	17	72	50	12	Sleeve anchor HLC 16X100/52	00230784	10
152	M12	17	72	50	12	Sleeve anchor HLC 16X140/92	00230785	10
95	M16		85	80	16	Sleeve anchor HLC 20X80/25	00230786	10
130	M16	21	85	80	16	Sleeve anchor HLC 20X115/60	00230787	10
165	M16	21	85	80	16	Sleeve anchor HLC 20X150/95	00230788	10
30	M5	7	30	5	5	Sleeve anchor HLC 6,5X25/5	00230768	100
45	M5	7	30	5	5	Sleeve anchor HLC 6,5X40/20	00230769	100
65	M5	7	30	5	5	Sleeve anchor HLC 6,5X60/40	00230770	100
46	M6	9	40	8	6	Sleeve anchor HLC 8X40/12	00230771	100
61	M6	9	40	8	6	Sleeve anchor HLC 8X55/27	00230772	100
76	M6	9	40	8	6	Sleeve anchor HLC 8X70/42	00230773	100
91	M6	9	40	8	6	Sleeve anchor HLC 8X85/57	00230774	100

## HLC-EC Sleeve Anchor

Universal anchor, eyelet version



Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
9	40	8	M6	10	Sleeve anchor HLC-EC 8x40	00331673	50

## HLC-EO Sleeve Anchor

Universal anchor, hook version



Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
9	40	8	M6	10	Sleeve anchor HLC 8X40EO	00254343	50

## HLC-F Sleeve Anchor

Universal anchor, countersunk-head version



Required torque Nm	Thread diameter mm	Order Description	Item Number	Sales Quantity
25	8	Sleeve anchor HLC 10X85F	00254340	50
25	8	Sleeve anchor HLC 10X105F	00254341	50
25	8	Sleeve anchor HLC 10X125F	00256731	50
5	5	Sleeve anchor HLC 6,5X45F	00256730	100
5	5	Sleeve anchor HLC 6,5X60F	00254335	100
5	5	Sleeve anchor HLC 6,5X100F	00254337	100
8	6	Sleeve anchor HLC 8X60F	00254338	100
8	6	Sleeve anchor HLC 8X90F	00254339	100
5	5	Sleeve anchor HLC-F 6,5x80	00254336	100

## HLC-H Sleeve Anchor

Universal anchor, bolt version version



Anchor length mm	Anchor size	Baseplate clearance hole mm	Hole depth mm	Required torque Nm	Thread diameter	Wrench size mm	Order Description	Item Number	Sales Quantity
46	M6	9	40	8	M6	10	Sleeve anchor HLC 8X40/12-H	00256956	100
61	M6	9	40	8	M6	10	Sleeve anchor HLC 8X55/27-H	00230791	100
61	M6	9		8	M6		Sleeve anchor HLC 8X55/27-H BUCKET	00333921	500
76	M6	9	40	8	M6	10	Sleeve anchor HLC 8X70/42-H	00230792	100
48	M8	11	47	25	M8	13	Sleeve anchor HLC 10X40/8-H	00256957	50
68	M8	11	47	25	M8	13	Sleeve anchor HLC 10X60/28-H	00230793	50
68	M8	11		25	M8		Sleeve anchor HLC 10X60/28-H BUCKET	00333922	300
88	M8	11	47	25	M8	13	Sleeve anchor HLC 10X80/48-H	00230794	50
88	M8	11		25	M8		Sleeve anchor HLC 10X80/48-H BUCKET	00333923	200
65	M10	13	56	40	M10	17	Sleeve anchor HLC 12X55/17-H	00256958	50
85	M10	13	56	40	M10	17	Sleeve anchor HLC 12X75/37-H	00230795	50
85	M10	13		40	M10		Sleeve anchor HLC 12X75/37-H BUCKET	00333924	150
110	M10	13	56	40	M10	17	Sleeve anchor HLC 12X100/62-H	00230796	25
72	M12	17	72	50	M12	19	Sleeve anchor HLC 16X60/12-H	00334124	10
112	M12	17	72	50	M12	19	Sleeve anchor HLC 16X100/52-H	00334125	15
	M12	21		50	M12		Sleeve anchor HLC 16X140/92-H	00334127	10

## HLC-T Sleeve Anchor

Universal anchor, eyelet version



Thread diameter mm	Order Description	Item Number	Sales Quantity
5	Sleeve anchor HLC 6,5X25T	00256732	50



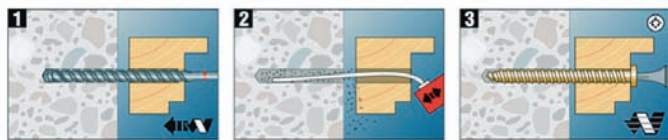
## HUS 7.5 Universal screw anchor

### Universal screw with torx 40

Base Material	Approvals	Firestop
concrete	Z-21.2-5Z-21.1-17109	IBMB 3950/7261
solid brick		IBMB 3950/7261
solid sand-lime bricks		IBMB 3950/7261
hollow bricks		

#### Applications:

The highly efficient light duty fastening solution directly driven into the base material



#### Features and Benefits

- Directly driven into base material
- No additional steps required
- Big productivity gains and labour savings
- Minimal expansion forces in base material
- Reduced edge distance and spacing
- Removable
- The perfect solution for temporary fastenings
- Whole range of heads and lengths
- Always the specific problem solver to every fastening problem
- Low embedment depth
- Fast installation and suitable for thin supports
- Perfect stand-off fastenings
- Ideal for windows and doors frames
- Matching system of screw and screwdriver
- The integrated system for the best setting performance
- Very small predrilling diameter (6mm)
- Savings in time and money
- Excellent load values in a variety of base materials
- A large variety of uses
- Fire resistant
- Suitable for safety regulated applications



Anchor length mm	Screw diameter mm	Wrench size mm	Order Description	Item Number	Sales Quantity
35	7,5	11.5	Screw anchor HUS 7,5X35	00071260	100
35	11.3	11.5	Screw anchor HUS 7,5X35 JUMBO	00238867	1000
45	11.3	11.5	Screw anchor HUS 7,5X45	00071261	100
45	11.3	11.5	Screw anchor HUS 7,5X45 JUMBO	00238868	1000
60	11.3	11.5	Screw anchor HUS 7,5X60	00071278	100
60	11.3	11.5	Screw anchor HUS 7,5X60 JUMBO	00238869	1000
80	11.3	11.5	Screw anchor HUS 7,5X80	00071279	100
80	11.3	11.5	Screw anchor HUS 7,5X80 JUMBO	00238870	500
100	11.3	11.5	Screw anchor HUS 7,5X100	00071280	100
100	11.3	11.5	Screw anchor HUS 7,5X100 JUMBO	00238871	500
120	11.3	11.5	Screw anchor HUS 7,5X120	00071281	100
120	11.3	11.5	Screw anchor HUS 7,5X120 JUMBO	00238872	500
140	11.3	11.5	Screw anchor HUS 7,5X140	00071282	100
140	11.3	11.5	Screw anchor HUS 7,5X140 JUMBO	00238873	500
160	11.3	11.5	Screw anchor HUS 7,5X160	00071283	100
160	11.3	11.5	Screw anchor HUS 7,5X160 JUMBO	00238874	250
180	11.3	11.5	Screw anchor HUS 7,5X180	00071284	100
180	11.3	11.5	Screw anchor HUS 7,5X180 JUMBO	00238875	250
200	11.3	11.5	Screw anchor HUS 7,5X200	00309350	100
220	11.3	11.5	Screw anchor HUS 7,5X220	00309351	100

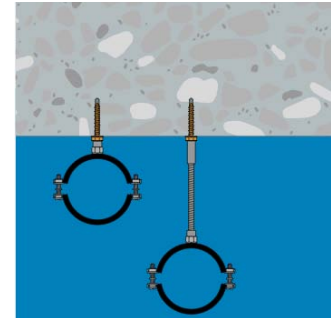
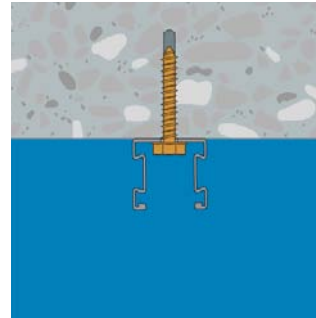
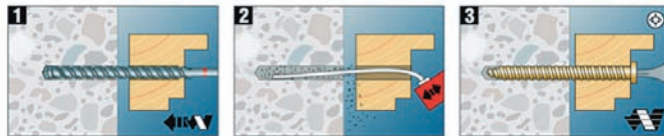
# HUS-H 7.5 Universal Screw Anchor

## Universal screw with hex head

Base Material	Approvals	Firestop
concrete	Z-21.1-1710	IBMB 3950/7261
solid bricks		IBMB 3950/7261
solid sand- lime bricks		IBMB 3950/7261
hollow bricks		

### Applications:

The highly efficient light duty fastening solution directly driven into the base material



### Features and Benefits

- Directly driven into base material
- No additional steps required
- Big productivity gains and labour savings
- Minimal expansion forces in base material
- Reduced edge distance and spacing
- Removable
- The perfect solution for temporary fastenings
- Whole range of heads and lengths
- Always the specific problem solver to every fastening problem
- Low embedment depth
- Fast installation and suitable for thin supports
- Perfect stand-off fastenings
- Ideal for windows and doors frames
- Matching system of screw and screwdriver
- The integrated system for the best setting performance
- Very small predrilling diameter (6mm)
- Savings in time and money
- Excellent load values in a variety of base materials
- A large variety of uses
- Fire resistant
- Suitable for safety regulated applications

Anchor length mm	Wrench size mm	Order Description	Item Number	Sales Quantity
35	13	Screw anchor HUS-H 7,5X35	00309340	100
45	13	Screw anchor HUS-H 7,5X45	00309341	100
60	13	Screw anchor HUS-H 7,5X60	00309342	100
80	13	Screw anchor HUS-H 7,5X80	00309343	100
100	13	Screw anchor HUS-H 7,5X100	00309344	100
120	13	Screw anchor HUS-H 7,5X120	00309345	100



## HUS 10.5 Universal Screw Anchor

The medium duty screw anchor system for fastening directly into concrete



Anchor length mm	Baseplate clearance hole mm	h <sub>nom</sub> Standard embedment depth mm	Hole depth mm	Max. fixture thickness (reduced) mm	Max. thickness fastened mm	Wrench size mm	Order Description	Item Number	Sales Quantity
55	12	50	70	5		13	Screw anchor HUS-H 10.5X55/-/5	00335082	50
65	12	50	70	15	5	13	Screw anchor HUS-H 10.5X65/5/15	00335083	50
75	12		70	25	15	13	Screw anchor HUS-H 10.5X75/15/25	00335084	50
90	12		70	40	30	13	Screw anchor HUS-H 10.5X90/30/40	00335085	50
110	12		70	60	50	13	Screw anchor HUS-H 10.5X110/50/60	00335086	50
130	12		70	80	70	13	Screw anchor HUS-H 10.5X130/70/80	00335087	50
150	12		70	100	90	13	Screw anchor HUS-H 10.5X150/90/100	00335088	50

## HUS 12.5 Universal Screw Anchor

The medium duty screw anchor system for fastening directly into concrete



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. fixture thickness (reduced) mm	Max. thickness fastened mm	Thread length	Wrench size mm	Order Description	Item Number	Sales Quantity
65	14	80	5			15	Screw anchor HUS-H 12.5X65/-/5	00335089	50
75	14	80	15	5		15	Screw anchor HUS-H 12.5X75/5/15	00335090	50
85	14	80	25	15		15	Screw anchor HUS-H 12.5X85/15/25	00335091	50
100	14	80	40	30		15	Screw anchor HUS-H 12.5X100/30/40	00335092	50
120	14	80	60	50		15	Screw anchor HUS-H 12.5X120/50/60	00335093	50
140	14	80	80	70		15	Screw anchor HUS-H 12.5X140/70/80	00335094	50
160	14	80	100	90		15	Screw anchor HUS-H 12.5X160/90/100	00335095	50
200	14	70	140	130	200	15	Screw anchor HUS-H 12.5X200/130/140	00374989	25
240	14	70	180	170		15	Screw anchor HUS-H 12.5X240/170/180	00374990	25
280	14	70	220	210		15	Screw anchor HUS-H 12.5X280/210/220	00374991	25

## HUS-H 16.5 Universal Screw Anchor

The medium duty screw anchor system for fastening directly into concrete



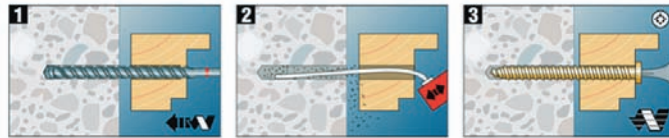
Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. fixture thickness (reduced) mm	Max. thickness fastened mm	Wrench size mm	Order Description	Item Number	Sales Quantity
80	17	100	10		21	Screw anchor HUS-H 16,5x80/-/-/10	00377989	16
115	17		45	5	21	Screw anchor HUS-H 16,5x115/5/25/45	00377990	16
135	18		65	25	21	Screw anchor HUS-H 16,5x135/25/45	00377991	16
160	18	100	90	50	21	Screw anchor HUS-H 16,5x160/50/70	00377992	16

## HUS-S 7.5 Universal Screw Anchor

### Screw for windows with Torx 30

#### Applications:

The highly efficient light duty fastening solution directly driven into the base material



#### Features and Benefits

- Directly driven into base material
- No additional steps required
- Big productivity gains and labour savings
- Minimal expansion forces in base material
- Reduced edge distance and spacing
- Removable
- The perfect solution for temporary fastenings
- Whole range of heads and lengths
- Always the specific problem solver to every fastening problem
- Low embedment depth
- Fast installation and suitable for thin supports
- Perfect stand-off fastenings
- Ideal for windows and doors frames
- Matching system of screw and screwdriver
- The integrated system for the best setting performance
- Very small predrilling diameter (6mm)
- Savings in time and money
- Excellent load values in a variety of base materials
- A large variety of uses
- Fire resistant
- Suitable for safety regulated applications

Anchor length mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
100	7.7	Window screw HUS-S 7,5X100	00230117	100
120	7.7	Window screw HUS-S 7,5X120	00230118	100
140	7.7	Window screw HUS-S 7,5X140	00230119	100
160	7.7	Window screw HUS-S 7,5X160	00230120	100
180	7.7	Window screw HUS-S 7,5X180	00230121	100
200	7.7	Window screw HUS-S 7,5X200	00309352	100
220	7.7	Window screw HUS-S 7,5X220	00309353	100



## HKF Cover cap

Order Description	Item Number	Sales Quantity
Cover cap HKF d.brown	00246782	200
Cover cap HKF l.brn.	00246781	200
Cover cap HKF white	00246780	200
Cover cap HKF-HUS-S d.brown	00246784	200
Cover cap HKF-HUS-S white	00246783	200
Cover cap HKO d.brown	00246779	200
Cover cap HKO l.brn.	00246778	200
Cover cap HKO white	00246777	200



## Bit Holders

Drive shaft size	Order Description	Item Number	Sales Quantity
1/4 in.	Bit holder S-BH 50 M	00257257	1
	Bit holder S-BH 75 M	00257258	1
	Bit holder S-BH 435 DT	00304415	1
	Bit holder S-BH 570 SME	00304741	1
	Bit holder S-BHP 75 M	00338991	1



## Insert Bits Torx

Order Description	Item Number	Sales Quantity
Bit box S-BS TX	00334030	1
Bit dispenser S-BS TX	00258698	1
Cover cap HRD	00334653	
INSERT BIT T-27 TORX	00084156	16
Screwdriver bit S-B TX 10 T	00258134	10
Screwdriver bit S-B TX 15 T	00258136	10
Screwdriver bit S-B TX 20 T	00258138	10
Screwdriver bit S-B TX 25 T	00258140	10
Screwdriver bit S-B TX 27 T	00258142	10
Screwdriver bit S-B TX 30 T	00258144	10
Screwdriver bit S-B TX 40	00258146	10
Screwdriver bit S-B TX 50	00315122	5
Screwdriver bit S-B TXI 30	00258131	10
Screwdriver bit S-B TXI 40	00258132	10
Screwdriver bit S-B TX40	00094050	10
Screwdriver bit S-B5/16 TX40	00094003	10
Screwdriver bit TORX T10	00202546	10
Screwdriver bit TORX T15	00202547	10
Screwdriver bit TORX T20	00202548	10
Screwdriver bit TORX T25	00202549	10
Screwdriver bit TORX T27	00202550	10
Screwdriver bit TORX T30	00202556	10



## NSD Nut Set Drivers

### Insert tools (bits and bit holders)

Order Description	Item Number	Sales Quantity
Bit holder S-BH 1/2 " 1/4"	00369096	2
Bit holder S-BH 75 1/2" 1/4"	00369097	2
Label 305082	00305096	
Magnetic socket insert TS-B NSD6-M	00080498	5
Nut setter socket S-NSD 13/16 1/2	00282932	1
Nut setter socket S-NSD 13/16 1/2 M	00282933	1
nut setter socket S-NSD 17 1/2	03401407	1
Nut setter socket S-NSD 19 1/2	00335633	1
Socket wrench insert S	00336700	1
Socket wrench insert S	00336701	1
Socket wrench insert S	00336702	1
Socket wrench insert S	00336703	1
Socket wrench insert S-NSD 13 1/2	00335097	1
Socket wrench insert S-NSD 13 1/2 L	00335096	1
Socket wrench insert S-NSD 15 1/2	00334802	1
Socket wrench insert S-NSD 15 1/2 L	00334801	1
Socket wrench insert S-NSD 15 1/2 L	00336413	1
Socket wrench insert S-NSD 17 1/2	00335632	1
Socket wrench insert S-NSD 21 1/2	00378234	1
Socket wrench insert S-NSD 21 1/2 M	00378235	1
Socket wrench insert S-NSD 24 1/2	00335634	1
Socket wrench insert S-NSD 5/8 1/2	00304786	1
Socket wrench insert S-NSD 5/8 1/2 M	00304795	1
Socket wrench insert S-NSD13L	00318364	1
"Thin walled socket S-NS 13-3/8" "L"	03072905	



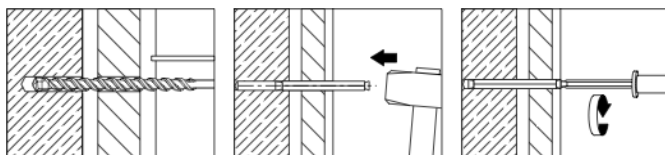


## HT Metal Frame Anchor

**Stress-free fastening trough in-place frames**

### Applications:

Fastening door and window frames



### Features and Benefits

- 4 versions
- HT 8 = 8 mm pan head
- HT 8k = 4 mm pan head
- HT 10L = 13 mm pan head
- HT 10 = 13 mm countersunk
- No risk for distortion or forces of constraint
- Expansion cone cannot be lost



Hole dia mm	Min. embedment depth mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
8	30	9	Metal frame anchor HT 8X72	00369257	100
8	30	9	Metal frame anchor HT 8X92	00369258	100
8	30	9	Metal frame anchor HT 8X112	00369259	100
8	30	9	Metal frame anchor HT 8X132	00369260	100
8	30	9	Metal frame anchor HT 8X152	00369261	100
8	30	11	Metal frame anchor HT 8KX92	00369374	100
8	30	11	Metal frame anchor HT 8KX112	00369375	100
8	30	11	Metal frame anchor HT 8KX132	00369376	100
10	30	13	Metal frame anchor HT 10LX92	00369377	100
10	30	13	Metal frame anchor HT 10LX112	00369378	100
10	30	13	Metal frame anchor HT 10LX132	00369379	100
10	30	13	Metal frame anchor HT 10LX152	00369380	100
10	30	13	Metal frame anchor HT 10X72	00369263	100
10	30	13	Metal frame anchor HT 10X92	00369264	100
10	30	13	Metal frame anchor HT 10X112	00369265	100
10	30	13	Metal frame anchor HT 10X132	00369266	100
10	30	13	Metal frame anchor HT 10X152	00369267	100
10	30	13	Metal frame anchor HT 10X182	00369268	100
10	30	13	Metal frame anchor HT 10X202	00369269	100

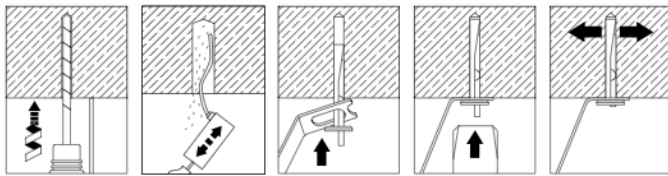
## DBZ Wedge Anchor

### Instant and reliable suspensions

Base Material	Approvals	Firestop
cracked and non-cracked concrete	Z-21.1-188	IBMB 3794/7949-1
solid brick		IBMB 3794/7949-1

#### Applications:

Suspensions from concrete ceilings attaching slit-steel straps, punched band or wood battens



Hole depth mm	Max. thickness fastened mm	Min. embedment depth mm	Order Description	Item Number	Sales Quantity
41	35	31	Wedge anchor DBZ 6/35	00256311	100
41	4.5	31	Wedge anchor DBZ 6/4.5	00256312	100

Order Description	Item Number	Sales Quantity
Testing lever DBZ 6	00078231	1



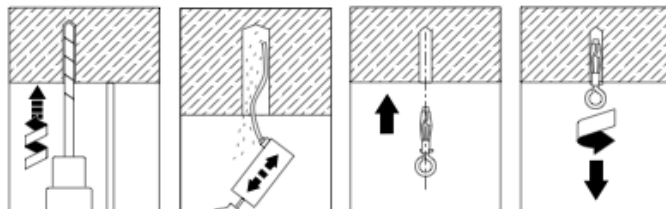
# HA 8 Ring and Hook Anchor

Easy-to-set-anchor with integrated connection

Base Material	Approvals	Firestop
cracked and non-cracked concrete	Z-21.1.88	IBMB 3245/1817-5

## Applications:

Suspensions from concrete ceilings e.g. suspended ceilings etc.



## Features and Benefits

- Time saving and easy expansion by hand
- Reliability thru automatic follow up expansion
- Fire resistance class A according to DIN4102



Hole depth mm	h1 Min. hole depth mm	Min. embedment depth mm	Order Description	Item Number	Sales Quantity
50	50	40	Hook anchor HA 8 H1	00057036	100
			Ring anchor HA 8 R1	00057059	100

Order Description	Item Number
Testing lever HA 8	00077545



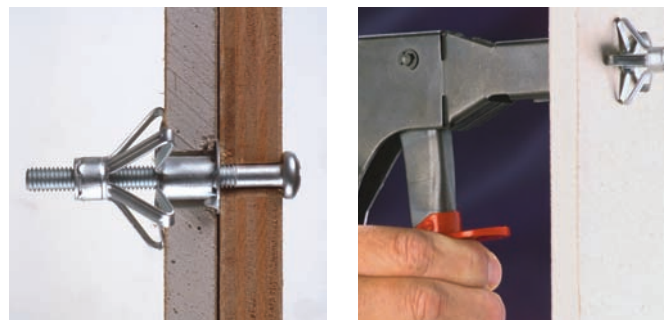
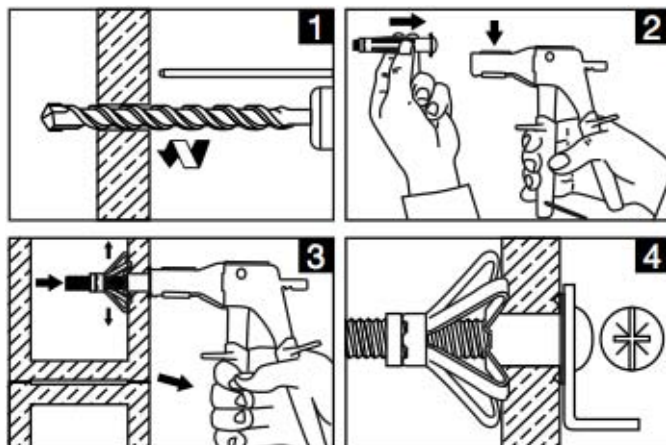
## HHD Metal Cavity Anchor

**Cavity anchor for installations on gypsum wallboard or hollow brick**

### Applications:

Fastening of

- Mouldings
- Decorative trim
- Tracks
- Panels, etc.



### Features and Benefits

- Time saving setting through pre-fitted screw
- Simple, economical and well controlled setting procedure
- Universal setting tool for sizes M4 through to M8



Anchor length mm	Hole depth mm	Max. thickness fastened mm	Max. thickness of base material mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
20		15	4	4	Cavity anchor HHD-S M4/4X20	00332060	100
32	32	25	7	4	Cavity anchor HHD-S M4/6X32	00332061	100
38	38	25	13	4	Cavity anchor HHD-S M4/12X38	00332062	100
45	45	25	20	4	Cavity anchor HHD-S M4/19X45	00332063	50
38	38	25	8	5	Cavity anchor HHD-S M5/8X38	00332065	100
52	52	30	13	5	Cavity anchor HHD-S M5/12X52	00332066	50
65	65	30	25	5	Cavity anchor HHD-S M5/25X65	00332067	50
38	38	30	13	6	Cavity anchor HHD-S M6/9X38	00332069	100
52	52	30	13	6	Cavity anchor HHD-S M6/12X52	00332070	50
65	65	30	25	6	Cavity anchor HHD-S M6/24X65	00332071	50
80	80	30	40	6	Cavity anchor HHD-S M6/40X80	00332072	50
54	54	30	13	8	Cavity anchor HHD-S M8/12X54	00332073	50
66		30	25	8	Cavity anchor HHD-S M8/24X66	00332074	50
83	83	35	40	8	Cavity anchor HHD-S M8/40X83	00332075	50

## HHD-S Metal Cavity Anchor

**Anchor for installations on cavities**



Screw diameter	Order Description	Item Number	Sales Quantity
M5	Cavity anchor HHD M5/8X38	00369308	100
M5	Cavity anchor HHD M5/12X52	00369307	50
M6	Cavity anchor HHD M6/9X38	00371859	100
M6	Cavity anchor HHD M6/12X52	00369309	50
M6	Cavity anchor HHD M6/24X65	00369310	50
	Cavity anchor HHD 5/19	00064163	100
	Cavity anchor HHD 5/32	00064164	100
	Cavity anchor HHD 6/19	00064167	100
	Cavity anchor HHD 6/32	00064168	100

## HHD Pro Set setting tool

Anchor size	Order Description	Item Number
M4 (20 mm, 32 mm, 38 mm)	setting tool HHD PRO SET	00376036
M5 (38 mm, 52 mm, 65 mm)		
M6 (38 mm, 52 mm, 65 mm)		
M8 (54 mm, 66 mm, 83 mm)		



## HHD Setting Tool

### Expansion tool for HHD-S anchors

Order Description	Item Number	Sales Quantity
Setting tool HHD-S	00332076	1





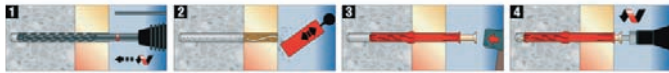
## HRD-SGT 10 mm Frame Anchor, Short

The low embedment solution

Base Material	Approvals	Firestop
concrete C12/15 (B15)	Z-21.2-599	Z-21.2-599
solid brick masonry	Z-21.2-599	Z-21.2-599
natural stone, hard		

### Applications:

- Carpentry: battens, beams, rails, door and window frames
- Facade application



### Features and Benefits

- Extremely versatile framing anchor for wide range of different base materials
- High loadbearing capacity in many different base materials
- Easy handling and setting with special, pre-assembled screws
- Flexible anti-rotation wings to prevent rotation of the anchor during the driving operation



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
60	10.5	60	10	Frame anchor HRD-SGT 10X60/10	00331500	50
70	10.5	60	30	Frame anchor HRD-SGT 10X80/30	00331501	50
100	10.5	60	50	Frame anchor HRD-SGT 10X100/50	00331502	50
120	10.5	60	70	Frame anchor HRD-SGT 10X120/70	00331503	50
140	10.5	60	90	Frame anchor HRD-SGT 10X140/90	00331504	50
160	10.5	60	110	Frame anchor HRD-SGT 10X160/110	00331505	50

## HRD-SGS 10 mm Frame Anchor, Short

The low embedment solution



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Wrench size mm	Order Description	Item Number	Sales Quantity
60	10.5	60	10	13	Frame anchor HRD-SGS 10X60/10	00331506	50
80	10.5	60	30	13	Frame anchor HRD-SGS 10X80/30	00331507	50
100	10.5	60	50	13	Frame anchor HRD-SGS 10X100/50	00331508	50
120	10.5	60	70	13	Frame anchor HRD-SGS 10X120/70	00331509	50
140	10.5	60	90	13	Frame anchor HRD-SGS 10X140/90	00331510	50
160	10.5	60	110	13	Frame anchor HRD-SGS 10X160/110	00331511	50

## HRD-SGS 10 mm Frame Anchor, Short

The low embedment solution



Anchor length mm	Hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
60	60	10	Frame anchor HRD-SGS 10X60/10U	00332295	25
70	60	30	Frame anchor HRD-SGS 10X80/30 U	00334937	25

## HRD-SRT 10 mm Frame Anchor, Short

The low embedment solution



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
60	10.5	60	10	Frame anchor HRD-SRT 10X60/10	00331513	50
100	10.5	60	50	Frame anchor HRD-SRT 10X100/50	00331514	50
140	10.5	60	90	Frame anchor HRD-SRT 10X140/90	00331515	50

## HRD-SRS 10 mm Frame Anchor, Short

The low embedment solution



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Wrench size mm	Order Description	Item Number	Sales Quantity
60	10.5	60	10	13	Frame anchor HRD-SRS 10X60/10	00331516	50
80	10.5	60	30	13	Frame anchor HRD-SRS 10X80/30	00331517	50
100	10.5	60	50	13	Frame anchor HRD-SRS 10X100/50	00331518	50
140	10.5	60	90	13	Frame anchor HRD-SRS 10X140/90	00331519	50

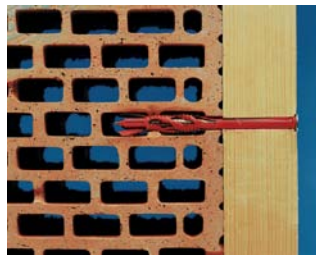
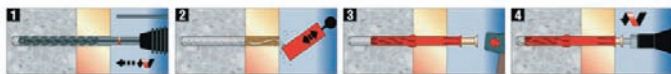
## HRD-UGT 10 mm Frame Anchor, Universal

The all base material solution

Base Material	Approvals	Firestop
concrete C12/15 (B15)	Z-21.2-599	Z-21.2-599
natural stone, hard	Z-21.2-599	Z-21.2-599

### Applications:

- Carpentry: battens, beams, rails, door and window frames
- Facade application



### Features and Benefits

- Extremely versatile framing anchor for wide range of different base materials
- High loadbearing capacity in many different base materials
- Easy handling and setting with special, pre-assembled screws
- Flexible anti-rotation wings to prevent rotation of the anchor during the driving operation



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	h1 Min. hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
80	10.5	80	80	10	Frame anchor HRD-UGT 10X80/10	00257272	50
100	10.5	80	80	30	Frame anchor HRD-UGT 10X100/30	00257273	50
120	10.5	80	80	50	Frame anchor HRD-UGT 10X120/50	00257274	50
140	10.5	80	80	70	Frame anchor HRD-UGT 10X140/70	00257275	50
160	10.5	80	80	90	Frame anchor HRD-UGT 10X160/90	00257283	50
180	10.5	80	80	110	Frame anchor HRD-UGT 10X180/110	00257276	50
200	10.5	80	80	130	Frame anchor HRD-UGT 10X200/130	00257284	50
230	10.5	80	80	160	Frame anchor HRD-UGT 10X230/160	00257285	50

## HRD-UGS 10 mm Frame Anchor, Universal

The all base material solution



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	Max. thickness fastened mm	Wrench size mm	Order Description	Item Number	Sales Quantity
80	10.5	80	10	13	Frame anchor HRD-UGS 10X80/10	00257277	50
100	10.5	80	30	13	Frame anchor HRD-UGS 10X100/30	00257278	50
120	10.5	80	50	13	Frame anchor HRD-UGS 10X120/50	00257279	50
140	10.5	80	70	13	Frame anchor HRD-UGS 10X140/70	00257280	50
160	10.5	80	90	13	Frame anchor HRD-UGS 10X160/90	00257286	50
180	10.5	80	110	13	Frame anchor HRD-UGS 10X180/110	00257281	50
200	10.5	80	130	13	Frame anchor HRD-UGS 10X200/130	00257287	50
230	10.5	80	160	13	Frame anchor HRD-UGS 10X230/160	00257288	50

## HRD-UGS 10 mm Frame Anchor, Universal

The all base material solution



Anchor length mm	h1 Min. hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
80	80	10	Frame anchor HRD-UGS 10X80/10 U	00257282	25
100		30	Frame anchor HRD-UGS 10X100/30 U	00334936	25

## HRD Frame Anchor, Hot Dipped Galvanized

For corrosive environment



Anchor length mm	Bolt diameter mm	h1 Min. hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
80	10	80	10	Frame anchor HRD-UFS 10X80/10	00066453	50
100	10	100	30	Frame anchor HRD-UFS 10X100/30	00066454	50
120	10	80	50	Frame anchor HRD-UFS 10X120/50	00066455	50
140	10	140	70	Frame anchor HRD-UFS 10X140/70	00066456	50
180	10	80	110	Frame anchor HRD-UFS 10X180/110	00045556	50

## HRD-URT 10 mm Frame Anchor, Universal

The all base material solution



Anchor length mm	Baseplate clearance hole mm	Hole depth mm	h1 Min. hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
80	10.5	80	80	10	Frame anchor HRD-URT 10X80/10	00257289	50
120	10.5	80	80	50	Frame anchor HRD-URT 10X120/50	00257290	50

## HRD-URS 10 mm Frame Anchor, Universal

The all base material solution



Anchor length mm	Baseplate clearance hole mm	h1 Min. hole depth mm	Max. thickness fastened mm	Wrench size mm	Order Description	Item Number	Sales Quantity
80	10.5	80	10	13	Frame anchor HRD-URS 10X80/10	00257291	50
100	10.5	80	30	13	Frame anchor HRD-URS 10X100/30	00257292	50
120	10.5	80	50	13	Frame anchor HRD-URS 10X120/50	00257293	50
140	10.5	80	70	13	Frame anchor HRD-URS 10X140/70	00257294	25

## HRD Insulation Plate

T60 plate for use with HRD 10

Order Description	Item Number	Sales Quantity
Cover cap HK0-T40 white	00216537	
Insulation plate HRD-T60	00260599	200



## HRD-UGT 14 mm Frame Anchor, Universal

The stronger solution



Anchor length mm	Hole depth mm	Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
80	80	10	Frame anchor HRD-UGT 14X80/10	00312622	50
110	80	40	Frame anchor HRD-UGT 14X110/40	00312623	50
140	80	70	Frame anchor HRD-UGT 14X140/70	00312624	50
160	80	90	Frame anchor HRD-UGT 14X160/90	00312625	50
180	80	110	Frame anchor HRD-UGT 14X180/110	00312626	50
200	80	130	Frame anchor HRD-UGT 14X200/130	00312627	50
230	80	160	Frame anchor HRD-UGT 14X230/160	00312628	50
270	80	200	Frame anchor HRD-UGT 14X270/200	00312629	50
310	80	240	Frame anchor HRD-UGT 14X310/240	00312630	50
350	80	280	Frame anchor HRD-UGT 14X350/280	00312631	50

## HRD-UGS 14 mm Frame Anchor, Universal

The stronger solution



Anchor length mm	Hole depth mm	h1 Min. hole depth mm	Max. thickness fastened mm	Wrench size mm	Order Description	Item Number	Sales Quantity
80	80	85	10	17	Frame anchor HRD-UGS 14X80/10	00312632	50
110	80	85	40	17	Frame anchor HRD-UGS 14X110/40	00312633	50
140	80	85	70	17	Frame anchor HRD-UGS 14X140/70	00312634	50
160	80	85	90	17	Frame anchor HRD-UGS 14X160/90	00312635	50
180	80	85	110	17	Frame anchor HRD-UGS 14X180/110	00312636	50
200	80	85	130	17	Frame anchor HRD-UGS 14X200/130	00312637	50
230	80	85	160	17	Frame anchor HRD-UGS 14X230/160	00312638	50
270	80	85	200	17	Frame anchor HRD-UGS 14X270/200	00312639	50
310	80	85	240	17	Frame anchor HRD-UGS 14X310/240	00312640	50
350	80	85	280	17	Frame anchor HRD-UGS 14X350/280	00312641	50



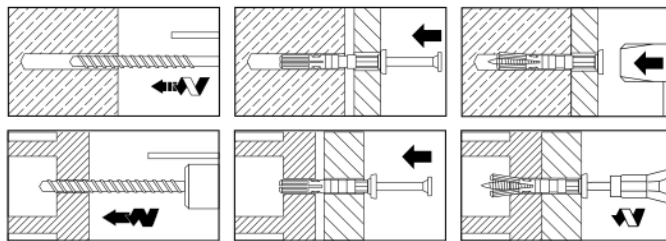
## HPS-1 Impact Anchor

Hammer-in anchor for through fastening, (galvanised version)

Base Material	Approvals	Firestop
concrete C12/15 (B15)	Z-21.2-599	Z-21.2-599
	Z-21.2-599	Z-21.2-599
	Z-21.2-599	Z-21.2-599
natural stone, hard		

### Applications:

- Wood battens
- Various electrical components
- Drywall track
- Sanitary installations
- Cable channels etc.



### Features and Benefits

- Fast
- Lower embedment depth (20 – 30 mm)
- Unique + safe
- 4-way expansion
- Shock resistant plastic body
- No breakage – even under cold and/or very dry conditions
- Removable screw thru impact protected screw head



Anchor length mm	h1 Min. hole depth mm	Max. thickness fastened mm	Min. embedment depth mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
21.5	25	2	20	7.5	Impact anchor HPS-1 4/0X20	00260369	250
22	25	2	20	9.5	Impact anchor HPS-1 5/0X20	00260395	250
22	25	2	20	9.5	Impact anchor HPS-1 5/0X20 COMBO	00332165	250
27	30	5	20	9.5	Impact anchor HPS-1 5/5X25 COMBO	00247849	200
32	30	10	20	9.5	Impact anchor HPS-1 5/10X30	00230515	200
32	30	10	20	9.5	Impact anchor HPS-1 5/10X30 COMBO	00253523	200
37	30	15	20	9.5	Impact anchor HPS-1 5/15X35	00260348	200
37	30	15	20	9.5	Impact anchor HPS-1 5/15X35 COMBO	00247850	200
27	25	5	20	9.5	Impact anchor HPS-1 5/5X25	00260347	200
27	30	2	25	11	Impact anchor HPS-1 6/0X25	00238159	150
27	30	2	25	11	Impact anchor HPS-1 6/0X25 COMBO	00332987	150
32	40	5	25	11	Impact anchor HPS-1 6/5X30	00260349	150
32	40	5	25	11	Impact anchor HPS-1 6/5X30 COMBO	00253530	150
37	40	5	25	11	Impact anchor HPS-1 6/10X35	00230516	150
37	40	5	25	11	Impact anchor HPS-1 6/10X35 COMBO	00247851	150
42	40	15	25	11	Impact anchor HPS-1 6/15X40	00260350	150
42	40	15	25	11	Impact anchor HPS-1 6/15X40 COMBO	00247852	150
52	40	25	25	11	Impact anchor HPS-1 6/25X50	00260351	100
52	40	25	25	11	Impact anchor HPS-1 6/25X50 COMBO	00247853	100
57	40	30	25	11	Impact anchor HPS-1 6/30X55	00230517	100
57	40	30	25	11	Impact anchor HPS-1 6/30X55 COMBO	00332988	100
67	40	40	25	11	Impact anchor HPS-1 6/40X65	00260352	100
67	40	40	25	11	Impact anchor HPS-1 6/40X65 COMBO	00252804	100
28.5	50	3	25	13	Impact anchor HPS-1 8/0X25	00238160	100
42.5	50	10	30	13	Impact anchor HPS-1 8/10X40	00260353	100
42.5	50	10	30	13	Impact anchor HPS-1 8/10X40 COMBO	00247854	100
132.5	50	100	30	13	Impact anchor HPS-1 8/100X130	00260367	100
52.5	50	20	30	13	Impact anchor HPS-1 8/20X50	00230518	50
52.5	50	20	30	13	Impact anchor HPS-1 8/20X50 COMBO	00332989	50
62.5	50	30	30	13	Impact anchor HPS-1 8/30X60	00260354	50
62.5	50	30	30	13	Impact anchor HPS-1 8/30X60 COMBO	00332166	50
72.5	50	40	30	13	Impact anchor HPS-1 8/40X70	00230519	50
72.5	50	40	30	13	Impact anchor HPS-1 8/40X70 COMBO	00332990	50
92.5	50	60	30	13	Impact anchor HPS-1 8/60X90	00260355	50
92.5	50	60	30	13	Impact anchor HPS-1 8/60X90 COMBO	00248312	50
112.5	50	80	30	13	Impact anchor HPS-1 8/80X110	00260356	50
112.5	50	80	30	13	Impact anchor HPS-1 8/80X110 COMBO	00247855	50

## HPS-1 Countersunk Impact Anchor

Hammer-in anchor for through fastening with coloured nail heads



Anchor length mm	Hole depth mm	h1 Min. hole depth mm	Max. thickness fastened mm	Min. embedment depth mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
35	30	30	15	20	9.5	Impact anchor HPS-1 G5/15SX35	00260376	200
50	30	30	30	20	9.5	Impact anchor HPS-1 G5/30SX50	00238332	150
70		30	50	20	9.5	Impact anchor HPS-1 G5/50SX70	00238334	100
35	30	30	15	20	9.5	Impact anchor HPS-1 W 5/15SX35	00260378	200
50		30	30	20	9.5	Impact anchor HPS-1 W5/30SX50	00238333	150
70		30	50	20	9.5	Impact anchor HPS-1 W5/50SX70	00238335	100
35	30	30	15	20	9.5	Impact anchor HPS-1 5/15SX35	00260375	200
50		30	30	20	9.5	Impact anchor HPS-1 5/30SX50	00230529	150
70	30	30	50	20	9.5	Impact anchor HPS-1 5/50SX70	00230530	100

## HPS-1 Impact Anchor

for fastening sheet metals



Hole depth mm	h1 Min. hole depth mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
	40		Impact anchor HPS-1 6/5F7X30	00260370	150
	40		Impact anchor HPS-1 6/15F7X40	00260372	150
40	40	11	Impact anchor HPS-1 6/15-M6/5X40	00260371	150
50		13	Impact anchor HPS-1 8/10 M8X16	00243021	100

## HPS-1 Metalworking impact anchor



Hole depth mm	h1 Min. hole depth mm	Order Description	Item Number	Sales Quantity
40	40	Metalworking impact anchor HPS-1 C 6/5SP	00230535	100
		Metalworking impact anchor HPS-1 C 6/5SP	00252431	100
40	40	Metalworking impact anchor HPS-1 R 6/5SP	00230536	100

## HPS-1R Impact Anchor

Hammer-in anchor for through fastening, (A2 stainless steel version)



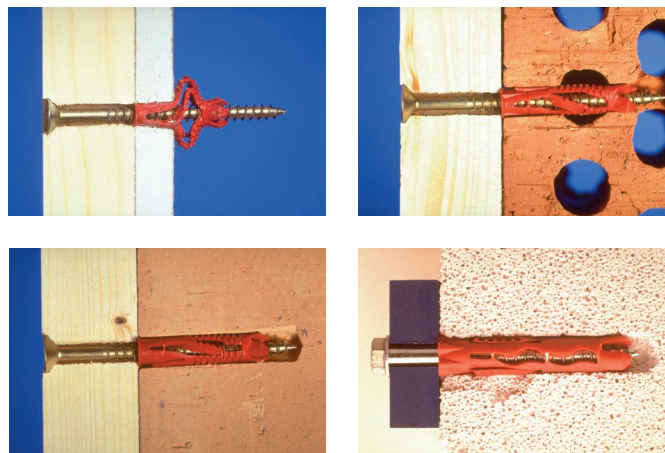
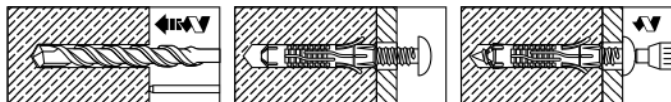
Anchor length mm	Hole depth mm	h1 Min. hole depth mm	Min. embedment depth mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
27	35		20	9.5	Impact anchor HPS-1 R 5/5X25	00260357	200
32	30		20	9.5	Impact anchor HPS-1 R 5/10X30	00230524	200
37	35		20	9.5	Impact anchor HPS-1 R 5/15X35	00260358	200
27	40		25	11	Impact anchor HPS-1 R 6/0X25	00238161	150
32	40		25	11	Impact anchor HPS-1 R 6/5X30	00260359	150
37	40		25	11	Impact anchor HPS-1 R 6/10X35	00230525	150
42	40		25	11	Impact anchor HPS-1 R 6/15X40	00260360	100
52	40		25	11	Impact anchor HPS-1 R 6/25X50	00260361	100
57	40		25	11	Impact anchor HPS-1 R 6/30X55	00230526	100
67	40		25	11	Impact anchor HPS-1 R 6/40X65	00260362	100
32.5	50		30	13	Impact anchor HPS-1 R 8/0X25	00238162	100
42.5	50	50	30	13	Impact anchor HPS-1 R 8/10X40	00260363	100
52.5	50		30	13	Impact anchor HPS-1 R 8/20X50	00230527	50
62.5	50	50	30	13	Impact anchor HPS-1 R 8/30X60	00260364	50
72.5			30		Impact anchor HPS-1 R 8/40X70	00230528	50
92.5	50	50	30	13	Impact anchor HPS-1 R 8/60X90	00260365	50
112.5	50	50	30	13	Impact anchor HPS-1 R 8/80X110	00260366	50

## HUD-1 Universal Plastic Anchor

The every day anchor

### Applications:

- Many kinds of light duty fastenings, especially electrical installations, sanitary fixings etc.



### Features and Benefits

- Universal
- For hollow and solid base materials
- Reliable
- Precise screw guidance, 360° expansion
- Meets safety specifications
- Does not contain heavy metals
- Does not contain halogenes and silicones



Anchor length mm	Bolt diameter mm	Hole depth mm	h1 Min. hole depth mm	Min. embedment depth mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
	3.5 - 4	35	35	25	3.5 - 4	Universal anchor HUD-1 5	00338708	200
25	3.5 - 4	35		25	3.5 - 4, 6 - 8	Universal anchor HUD-1 5X25	00331615	500
	4.5 - 5	40	40	30	4.5 - 5	Universal anchor HUD-1 6	00338709	200
30	4.5 - 5	40		30	4.5 - 5, 8 - 10	Universal anchor HUD-1 6X30	00331616	500
	5 - 6	55	55	40	5 - 6	Universal anchor HUD-1 8	00338710	200
40	5 - 6	55		40	5 - 6, 10 - 12	Universal anchor HUD-1 8X40	00331617	400
	7 - 8	65	65	50	7 - 8	Universal anchor HUD-1 10	00338711	100
50	7 - 8	65		50	7 - 8	Universal anchor HUD-1 10X50	00331618	200
60	8 - 10	80		60	8 - 10	Universal anchor HUD-1 12X60	00331619	100
70	10 - 12	90			10 - 12	Universal anchor HUD-1 14X70	00331620	50

## HUD-1 Universal Plastic Anchor with Screw

The every day anchor

Order Description	Item Number	Sales Quantity
HUD-1 1/4 Combo W/SCREW 500/BOX	00336486	14
HUD-1 1/4X1 3/16 W/SCREW 100/BOX	00336485	100
HUD-1 3/16 Combo W/SCREW 500/BOX	00336484	14
HUD-1 3/16X1 W/SCREW 100/BOX	00336483	100
HUD-1 3/8 Combo W/SCREW 200/BOX	00336488	14
HUD-1 5/16 Combo W/SCREW 400/BOX	00336487	14

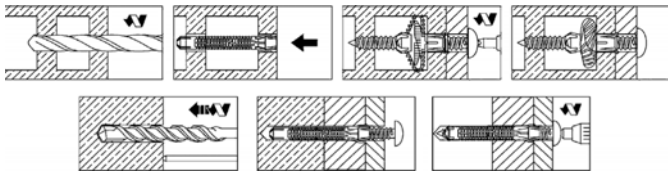
## HUD-L Extra Long Plastic Anchor

Plastic anchor for problematic base materials (gas concrete, fragile hollow bricks, etc)

Base Material	Approvals	Firestop
concrete C12/15 (B15)	Z-21.2-599	Z-21.2-599
	Z-21.2-599	Z-21.2-599
	Z-21.2-599	Z-21.2-599
natural stone, hard		

### Applications:

- Wood-battens
- Conduit-clips
- Tracks
- And many other light duty fastenings



### Features and Benefits

- Meets safety specifications
- Contains no heavy metals
- Contains no halogens + silicones
- Problem solver
- For problematic base materials (thick plaster layers, aereated concrete, double-panelled drywall etc.)
- Reliable expansion
- Precisely controlled screw guidance and 360° expansion
- Toggling action
- Forms knot in hollow materials and cavities



Anchor length mm	Bolt diameter mm	Hole depth mm	Min. embedment depth mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
50	4.5 - 5	70	50	4.5 - 5	Universal anchor HUD-L 6X50	00315938	400
60	5 - 6	80	60	5 - 6	Universal anchor HUD-L 8X60	00315939	200
70	(7) - 8	90	70	7 - 8	Universal anchor HUD-L 10X70	00315940	100

## HUD-L Extra Long Plastic Universal Anchor with Screw

Universal plastic anchor for problematic base materials (gas concrete, fragile hollow bricks, etc).

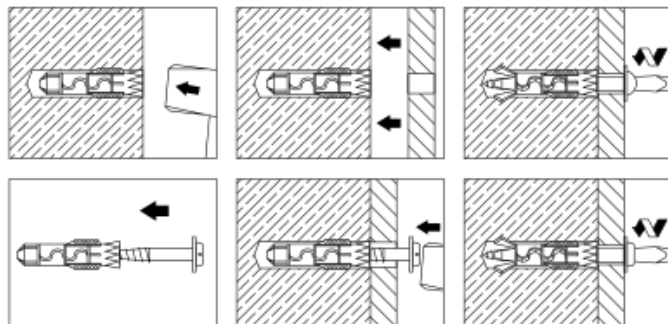
Order Description	Item Number	Sales Quantity
HUD-L 1/4 Combo W/Screw 400/PKG	00336491	14
HUD-L 3/8 Combo W/Screw 100/PKG	00336493	14
HUD-L 5/16 Combo W/Screw 200/PKG	00336492	14

# HGN Gas Concrete Anchor

Universal anchor for fastenings in gas (aerated) concrete

## Applications:

- Many kinds of light duty fastenings onto gas concrete



## Features and Benefits

- Higher loads thru well balanced distribution of forces onto base material
- Reliable setting. Wings and collar provide double resistance against turning in hole
- Reliable expansion through accurate screw guidance



Anchor length mm	Bolt diameter mm	Hole depth mm	h1 Min. hole depth mm	Min. embedment depth mm	Screw diameter mm	Order Description	Item Number	Sales Quantity
100			110	100	6 - 8	Aerated concrete anchor HGN 10X100	00031137	100
75	8 - 10	95		75	8 - 10	Aerated concrete anchor HGN 12	00045626	50
85	10 - 12	110		85	10 - 12	Aerated concrete anchor HGN 14	00045627	50

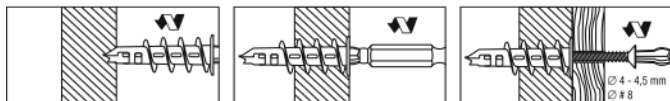


## HSP Self-Drilling Anchor in Zinc

For light duty fastening in gypsum wallboard

### Applications:

Many kinds of light duty fastenings on gypsum wallboard



### Features and Benefits

- "Shark's tooth" design for correct positioning and quick installation
- Cuts its own thread
- One Hilti bit for anchor and screw. No setting tool required
- HSP and HFP delivered with or without screws



Anchor length mm	Screw diameter gauge mm	Order Description	Item Number	Sales Quantity
	4,5, 8	Drywall anchor HSP	00332682	100
		Drywall anchor HSP 1/4"	00333557	100
	-	Drywall anchor HSP-M6	00332684	100
39	4,5, 8	Drywall anchor HSP-S	00332683	100

## HSP F7 Self-Drilling Anchor in Zinc

For light duty fastening in gypsum wallboard

Anchor length mm	Thread diameter	Order Description	Item Number	Sales Quantity
39	F7	Drywall anchor HSP-F7	00332685	100

## HFP Self-Drilling Anchor in Plastic

Quick and easy light duty fastening to gypsum wallboard

Anchor length mm	Max. thickness fastened mm	Screw diameter gauge mm	Order Description	Item Number	Sales Quantity
29	10	4,5, 8-10	Drywall anchor HFP	00332686	100
29	10	4,5, 8-10	Drywall anchor HFP-S	00332687	100

## D-B PH2 Screwdriver Bit

Bit for HSP and HFP



Order Description	Item Number	Sales Quantity
Screwdriver bit D-B PH2 HSP/HFP	00332688	5
Screwdriver bit D-B SQ HSP-G	00332689	5

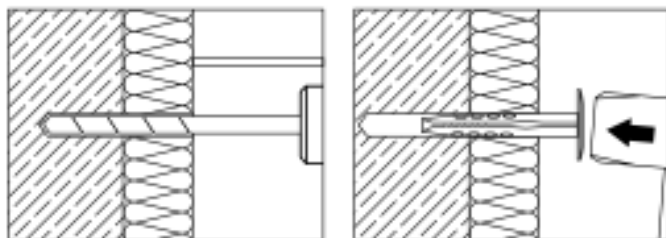
## IDMS Insulation Fastener

Metal insulation fastener for thickness up to 150 mm

Base Material	Approvals	Firestop
concrete C12/15 (B15)	Z-21.2-599	Z-21.2-599
	Z-21.2-599	Z-21.2-599
	Z-21.2-599	Z-21.2-599
natural stone, hard		

### Applications:

Various insulation fastenings



### Features and Benefits

- Product range for fastenable thickness up to 150 mm
- Simple setting by hammering
- Versatile use for all standard insulation materials
- Insulation plates available for soft insulation material



Anchor length mm	Hole depth mm	Order Description	Item Number	Sales Quantity
80	55	Insulation mandrel IDMS 0/ 3	00065752	250
110	55	Insulation mandrel IDMS 3/ 6	00065753	250
140	55	Insulation mandrel IDMS 6/ 9	00065754	250
170	55	Insulation mandrel IDMS 9/12	00065725	150
200	55	Insulation mandrel IDMS 12/15	00045358	150

## IDMR Insulation Fastener

Metal insulation fastener in stainless steel A2 for thickness up to 150 mm

Anchor length mm	h1 Min. hole depth mm	Order Description	Item Number	Sales Quantity
80		Insulation mandrel IDMR 0/ 3	00065786	250
110		Insulation mandrel IDMR 3/ 6	00065787	250
140		Insulation mandrel IDMR 6/ 9	00065788	250
170	55	Insulation mandrel IDMR 9/12	00077846	150
240		Insulation mandrel IDMR 16/19	00242987	150

## IDP Insulation Fastener

Plastic insulation fastener

### Applications:

Various Insulation fastenings



### Features and Benefits

- Fastenable thickness up to 200 mm
- Excellent bonding of plaster on specially structured 60mm fastener head
- Embedment depth down to 30 mm
- Simple setting by hammering



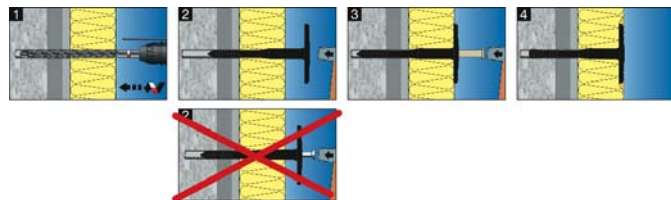
Anchor length mm	Hole depth mm	h1 Min. hole depth mm	Order Description	Item Number	Sales Quantity
50	40-60	50	Insulation mandrel IDP 0/2	00332105	250
70	40-60	50	Insulation mandrel IDP 2/4	00332106	250
90	40-60	50	Insulation mandrel IDP 4/6	00332107	250
110	40-60	50	Insulation mandrel IDP 6/8	00332108	250
130	40-60	50	Insulation mandrel IDP 8/10	00332109	250
150	40-60	50	Insulation mandrel IDP 10/12	00332110	250
180	40-60	50	Insulation mandrel IDP 13/15	00332111	250

## IZ Expansion Insulation Fastener

Insulation fastener with plastic expansion pin

### Applications:

Various insulation fastenings



### Features and Benefits

- Fastenable thickness up to 120 mm
- Reliable bonding of plaster on structured head
- Easy fastening of hard, self-supporting insulation materials such as expanded polystyrene



Hole depth mm	h1 Min. hole depth mm	Working length mm	Order Description	Item Number	Sales Quantity
50 - 70	50	0 - 40	Insulation fastener IZ 8x70	00378160	250
50 - 70	50	20 - 60	Insulation fastener IZ 8x90	00378161	250
50 - 70	50	40 - 80	Insulation fastener IZ 8x110	00378162	200
50 - 70	50	60 - 100	Insulation fastener IZ 8x130	00378163	200
50 - 70	50	80 - 120	Insulation fastener IZ 8x150	00378164	150
50 - 70	50	100 - 140	Insulation fastener IZ 8x170	00378165	150
50 - 70	50	120 - 160	Insulation fastener IZ 8x190	00378166	100
50 - 70	50	140 - 180	Insulation fastener IZ 8x210	00378167	100

## IZ-MR Expansion Insulation Fastener

Plastic insulation fastener with A2 stainless steel expansion pin

h1 Min. hole depth mm	t <sub>pl</sub> Max. thickness fastened mm	Order Description	Item Number	Sales Quantity
50		Insulation plug IZ-MR 8/20	00056677	250
50		Insulation plug IZ-MR 8/40	00056678	250
50		Insulation plug IZ-MR 8/60	00056679	250
50		Insulation plug IZ-MR 8/80	00056689	250
50	120	Insulation plug IZ-MR 8/120	00056707	200