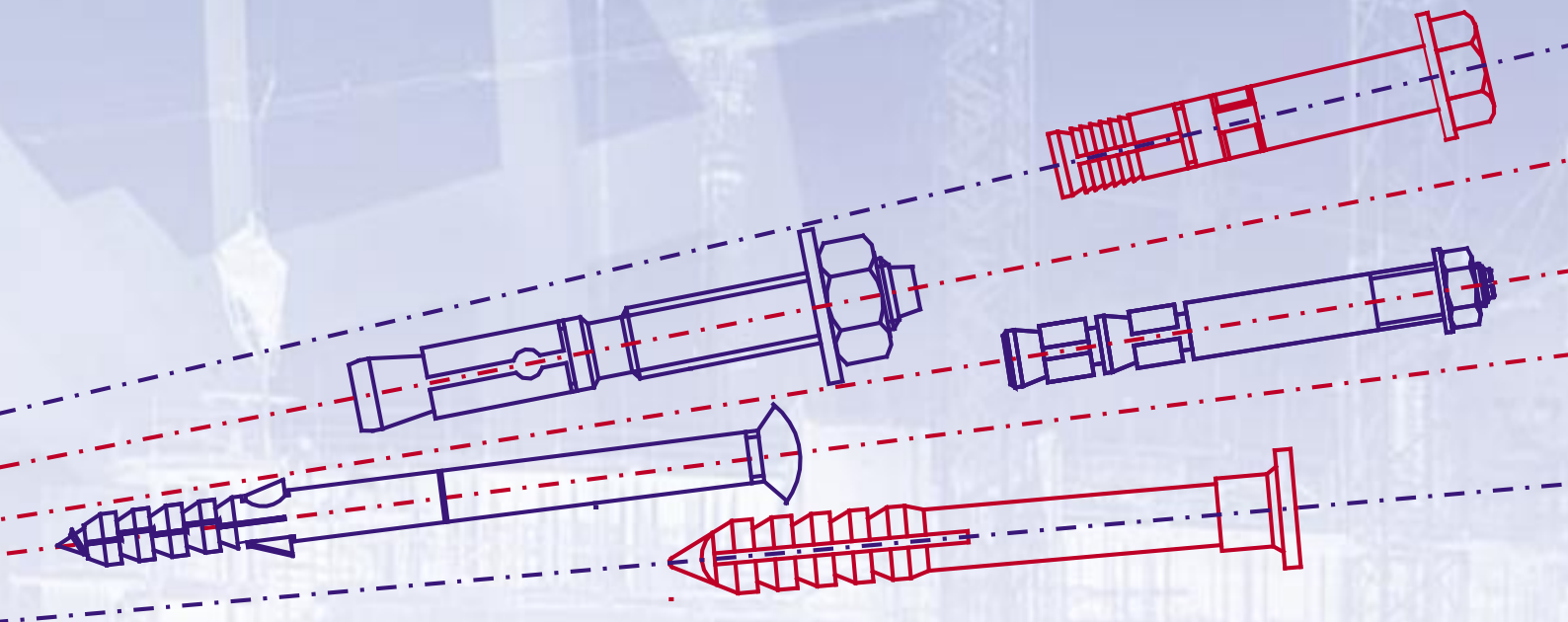


- 1 Transport Anchor System
- 2 Rebar Coupling System
- 3 Heavy & Light Expansion Anchors**
- 4 Anchor Channels and Accessories
- 5 Formwork Accessories
- 6 Powder Actuated Fastening System
- 7 Cable Tray System

## Light & Heavy Expansion Anchors





## Part 3. Light & Heavy Expansion Anchor

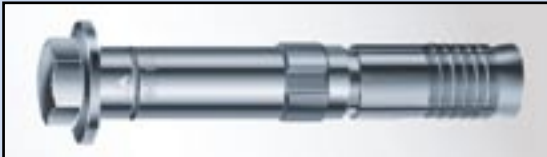
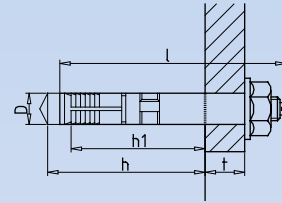
Heavy Duty Anchors NHT	3.1
Double Clip Anchors NST	3.2
Wedge Anchors NGT	3.3
Drop-in Anchors NDP	3.4
Sleeve Anchors NSP	3.5
Nylon Frame Plugs NVP	3.6
Quick Nail Plugs NVL	3.7
Insulation Plugs NVI	3.8
Metal Frame Plugs NMT	3.9
Chemical Anchors NPT	3.10
High Performance Chemical Mortar Fixing	3.11
Chemical Anchors NKT	3.12



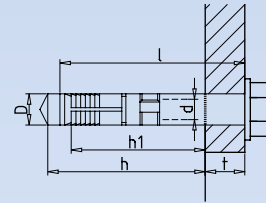
### 3.1 Heavy Duty Anchor NHT



Type A



Type B



Anchor Dimensions - NHT Heavy Duty Anchor

Description	Type	Ref. No.	Material /Finish	Drill Ø	Thread size	Max. fixture thickness t (mm)	Min. drill depth h (mm)	Total length l (mm)	Anchoring depth h1 (mm)	Width across flats (mm)	Package content PCs
				D (mm)	d (mm)						
NHT10x70/10	A/B	30110070	G	10	M6	10	60	70	45	10	100
NHT10x85/25	A/B	30110085	G	10	M6	25	60	85	45	10	100
NHT10x110/50	A/B	30110110	G	10	M6	50	60	110	45	10	100
NHT12x90/10	A/B	30112090	G	12	M8	10	80	90	60	13	100
NHT12x105/25	A/B	30112105	G	12	M8	25	80	105	60	13	100
NHT12x130/50	A/B	30112130	G	12	M8	50	80	130	60	13	50
NHT14x100/10	A/B	30114100	G	14	M10	10	90	100	70	17	50
NHT14x140/50	A/B	30114140	G	14	M10	50	90	140	70	17	25
NHT18x105/5	A/B	30118105	G	18	M12	5	105	105	80	19	25
NHT18x130/25	A/B	30118130	G	18	M12	25	105	130	80	19	25
NHT18x155/50	A/B	30118155	G	18	M12	50	105	155	80	19	25
NHT24x135/5	A/B	30124135	G	24	M16	5	135	135	100	24	10
NHT24x145/10	A/B	30124145	G	24	M16	10	135	145	100	24	10
NHT24x160/25	A/B	30124160	G	24	M16	25	135	160	100	24	10
NHT28x160/5	A/B	30128160	G	28	M20	5	160	160	125	30	5
NHT28x170/10	A/B	30128170	G	28	M20	10	160	170	125	30	5
NHT28x185/25	A/B	30128185	G	28	M20	25	160	185	125	30	5

Material/Finish: G = Electro-Plating

Ref. Example NHT 10x170/10G: 10=drill diameter, 70 = total length, 10 = fixture thickness, G = Electro-Plating



## 3.1 Heavy Duty Anchor NHT

### Applications:

Heavy duty anchor of high performance, specially suitable for fixing machinery, heavy wood and metals structures etc.

### Suitable Base Material:

- Concrete in the compression zone
- Hard natural stone

### Special Features:

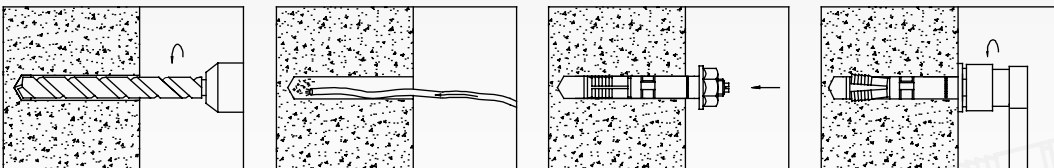
- Optimum performance and ultimate safety
- Anchor stud made of high grade 8.8 steel
- Favourable bending moments
- Retightening of the anchor is possible
- Cavity compensation through centering ring

### Material:

- Steel galvanized to 5 microns & yellow passivated

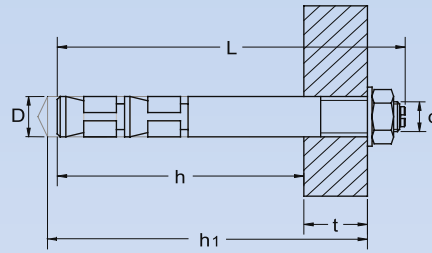
Recommended Working Load & Installation Requirements						
Description	Recomm. tensile load kN	Recomm. shear load kN	Recomm. anchor spacing ≥cm	Edge distance ≥cm	Building component thickness ≥cm	Max tight torque Nm
NHT 10/.. (M 06)	4.8	4.6	16	9	12	18
NHT 12/.. (M 08)	6.9	8.8	22	12	16	25
NHT 14/.. (M 10)	10.8	12.3	25	16	18	50
NHT 18/.. (M 12)	16.7	18.2	31	20	25	80
NHT 24/.. (M 16)	22.5	31	40	25	30	200
NHT 28/.. (M 20)	30.5	45	50	30	40	380

### Installation Demo





### 3.2 Dual-Clip Anchor NST



Anchor Dimensions - Dual-Clip Anchor NST								
Description	Ref. No.	Material /Finish	Thread $\varnothing =$ Drill $\varnothing D=d$ mm	Max. fixture thickness t mm	Total length		Drill depth through fixture	
					L mm	h1 mm	h mm	
NST 6x70/10	30206070	G,H,S	6	10	70	69	50	
NST 8x62/5	30208062	G,H,S	8	5	62	60	45	
NST 8x85/15	30208085	G,H,S	8	15	85	81	56	
NST 8x100/30	30208100	G,H,S	8	30	100	96	56	
NST 10x70/5	30210070	G,H,S	10	5	70	65	50	
NST 10x90/15	30210090	G,H,S	10	15	90	85	60	
NST 10x120/45	30210120	G,H,S	10	45	120	115	60	
NST 12x85/5	30212085	G,H,S	12	5	85	77	60	
NST 12x115/15	30212115	G,H,S	12	15	115	105	80	
NST 12x140/40	30212140	G,H,S	12	40	140	130	80	
NST 12x180/80	30212180	G,H,S	12	80	180	170	80	
NST 12x205/105	30212205	G,H,S	12	105	205	195	80	
NST 16x115/10	30216115	G,H,S	16	10	115	110	80	
NST 16x155/30	30216155	G,H,S	16	30	155	141	100	
NST 16x188/65	30216188	G,H,S	16	65	188	176	100	
NST 16x218/95	30216218	G,H,S	16	95	218	206	100	
NST 20x140/10	30220140	G,H,S	20	10	140	120	100	
NST 20x190/40	30220190	G,H,S	20	40	190	170	120	
NST 20x230/80	30220230	G,H,S	20	80	230	210	120	
NST 24x250/40	30224250	G,H,S	24	40	250	230	120	

Material/Finish: G = Electro-Plating, H = Hot-Dip Galvanized, S = Stainless Steel A2  
 Ref. Example NST 12x83/5G: 12 = thread size, 83 = total length, 5 = fixture thickness, G = Electro-Plating



## 3.2 Dual-Clip Anchor NST

### Applications:

Quick and simple installation as well as remarkable retaining load for medium duty, fastening suitable for steel frames, channels, machines, racking systems etc...

### Suitable Base Material:

- Concrete in the compression zone
- Hard natural stone

### Special Features:

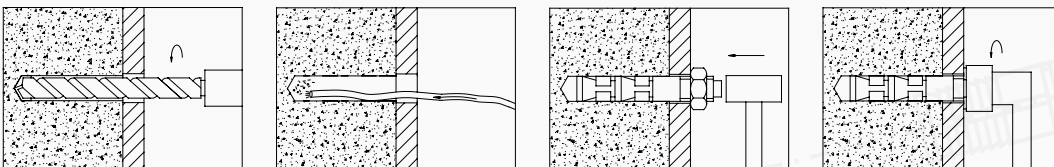
- Special stainless steel wedge sleeve to ensure reliable anchoring and anti-rotation expansion
- Quick and simple installation
- Thread diameter = drill diameter
- Fire resistant

### Material:

- Steel galvanized to 5 microns & yellow passivated
- A2 & A4 stainless steel on request

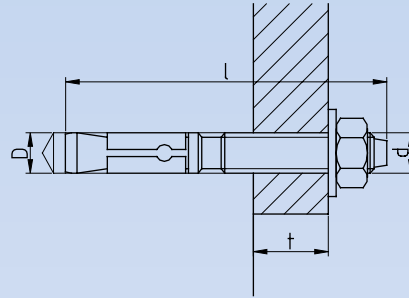
Recommended Working Load (Static) in Uncracked 30 N/mm <sup>2</sup> Concrete					
Description	Recomm. tensile load kN	Recomm. shear load kN	Recomm. anchor spacing ≥cm	Edge distance ≥cm	Max tight torque Nm
NST M 06/..	3.2	2.8	13	9	10
NST M 08/..	5.2	3.6	15	10	24
NST M 10/..	6.4	4.3	16	11	35
NST M12/..	10.5	8.5	21	15	55
NST M16/..	16.1	14.8	27	19	105
NST M20/..	22.3	20	32	23	210
NST M24/..	31	28	46	35	270

### Installation Demo





### 3.3 Wedge Anchor NGT



Anchor Dimensions - Wedge Anchor NGT

Description	Ref. No.	Material /Finish	Thread $\varnothing$ = Drill $\varnothing$ D=d (mm)	Max. fixture thickness t (mm)	Total length l (mm)
NGT 8x75/5	30308075	G,H,S	8	5	75
NGT 8x95/25	30308095	G,H,S	8	25	95
NGT 8x115/45	30308115	G,H,S	8	45	115
NGT 10x90/5	30310090	G,H,S	10	5	90
NGT 10x110/25	30310110	G,H,S	10	25	110
NGT 10x130/45	30310130	G,H,S	10	45	130
NGT 12x115/15	30312115	G,H,S	12	15	115
NGT 12x145/45	30312145	G,H,S	12	45	145
NGT 12x185/85	30312185	G,H,S	12	85	185
NGT 16x140/20	30316140	G,H,S	16	20	140
NGT 16x165/45	30316165	G,H,S	16	45	165
NGT 16x215/95	30316215	G,H,S	16	95	215
NGT 20x170/25	30320170	G,H,S	20	25	170
NGT 20x200/55	30320200	G,H,S	20	55	200
NGT 24x210/25	30324210	G,H,S	24	25	210
NGT 24x230/55	30324230	G,H,S	24	55	230

Material/Finish: G = Electro-Plating, H = Hot-Dip Galvanized, S = Stainless Steel A2), V = Stainless Steel A4\  
 Ref. Example NGT 10x90/5: 10 = drill  $\varnothing$ , 90 = total length, 5 = fixture thickness, G = Electro-Plating



## 3.3 Wedge Anchor NGT

### Applications:

Quick and simple installation as well as remarkable retaining load for medium duty, fastening, suitable for steel frames, channels, machines, racking system etc...

### Suitable Base Material:

- Concrete in the compression zone
- Hard natural stone

### Special Features:

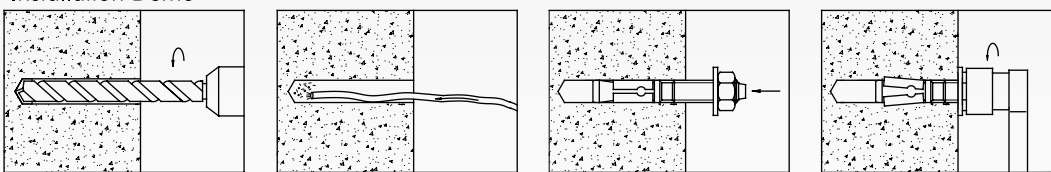
- Special stainless steel wedge sleeve to ensure reliable anchoring and anti-rotation expansion
- Quick and simple installation
- Thread diameter = drill diameter
- Fire resistant

### Material:

- Steel galvanized to 5 microns & yellow passivated
- A2 & A4 stainless steel on request

Description	Recomm. tensile load kN	Recomm. shear load kN	Hole depth mm	Recomm. anchor $\geq$ mm	Edge distance $\geq$ mm	Building component $\geq$ mm	Max tight torque Nm
NGT 08/..	5	5.2	65	100	65	75	25
NGT 10/..	6.5	6.7	80	130	80	95	30
NGT 12/..	10.2	11	95	155	95	120	35
NGT 16/..	15.2	15.5	115	200	125	130	40
NGT 20/..	21.2	23.4	145	260	160	170	45
NGT 24/..	28.5	32.8	170	300	200	210	55

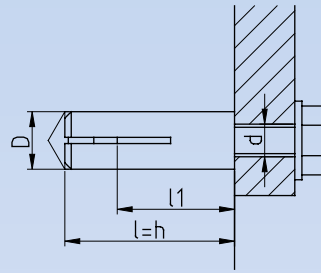
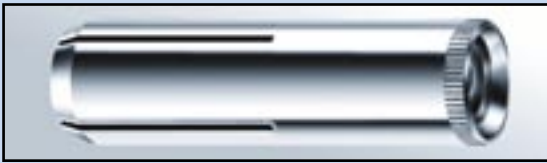
Installation Demo







### 3.4 Drop-In Anchor NDP



Anchor dimensions - Drop-in Anchor NDP							
Description	Ref. No.	Material /Finish	Thread size d (mm)	Min/Max. screw-in depth l1 (mm)	Total length l (mm)	Drill Ø D (mm)	Drill depth h (mm)
NDP M 06	34106028	G,S,V	M6	6/11	28	8	28
NDP M 08	34108030	G,S,V	M8	8/13	30	10	30
NDP M 10	34110040	G,S,V	M10	10/15	40	12	40
NDP M12	34112050	G,S,V	M12	12/18	50	15	50
NDP M16	34116065	G,S,V	M16	16/23	65	20	65
NDP M20	34120080	G,S,V	M20	20/34	80	25	80

Material/Finish: G = Electro-Plating, S = Stainless Steel A2), V = Stainless Steel A4  
 Ref. Example NDP M10G: M= thread size, G = Electro-Plating



## 3.4 Drop-In Anchor NDP

### Applications:

Quick and simple installation, with internal thread for quick connection with any metric screw

### Suitable Base Material:

- Concrete in the compression zone
- Hard natural stone

### Special Features:

- Anchors flush with surface
- Expansion by setting tool
- A short anchor with high holding power
- Fixture detachable at any time
- Fire resistance

### Material:

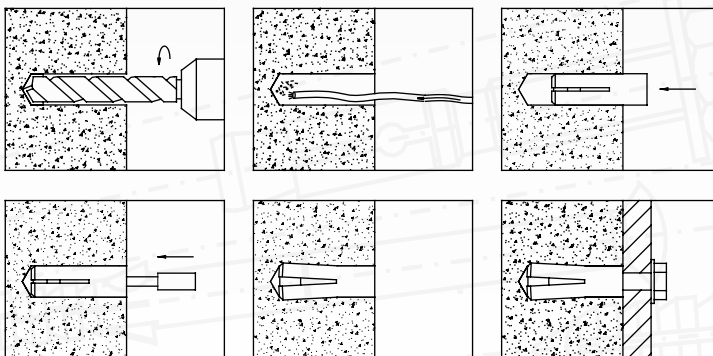
- Steel galvanized to 5 microns & yellow passivated
- A2 & A4 stainless steel on request

Recommended Working Load in Uncracked 30 N/mm <sup>2</sup> Concrete						
Description	Recomm. tensile load kN	Recomm. shear load kN	Anchor spacing ≥cm	Edge distance ≥cm	Building component thickness ≥cm	Max tight torque Nm
NDP M 06	1.9	1.6	12	8	10	5
NDP M 08	3.2	2.7	15	10	10	9
NDP M 10	5	4.4	18	12	12	16
NDP M12	8.4	7.1	20	15	16	35
NDP M16	13.5	11.2	30	20	20	70
NDP M20	18	14.5	36	25	25	120

Setting Tool	
Description	Order code
NDPT 06	12506
NDPT 08	12508
NDPT 10	12510
NDPT 12	12512
NDPT 16	12516
NDPT 20	12520



### Installation Demo

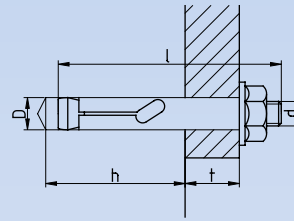




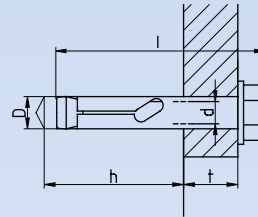
### 3.5 Sleeve Anchor NSP



Type A



Type B



Anchor Dimensions - Sleeve Anchor NSP

Description	Code	Type	Material /Finish	Thread size d (mm)	Max. fixture thickness t (mm)	Total length l (mm)	Drill $\varnothing$ D (mm)	Min. drill depth h (mm)	Package content PCs
NSP 06x30/5	34206030	A	G	4.5	5	30	6	35	100
NSP 06x42/8	34206042	A	G	4.5	8	42	6	45	100
NSP 06x61/27	34206061	A	G	4.5	27	61	6	45	100
NSP 08x45/8	34208045	A / B	G	6	8	45	8	50	100
NSP 08x70/30	34208070	A / B	G	6	30	70	8	50	50
NSP 08x96/56	34208096	A / B	G	6	56	96	8	50	50
NSP 10x46/6	34201046	A	G	8	6	46	10	50	50
NSP 10x55/10	34210055	A / B	G	8	10	55	10	55	50
NSP 10x81/35	34210081	A / B	G	8	35	81	10	55	50
NSP 10x108/62	34210108	A / B	G	8	62	108	10	55	25
NSP 12x62/12	34212062	A / B	G	10	12	62	12	65	25
NSP 12x76/18	34212076	A / B	G	10	18	76	12	65	25
NSP 12x104/46	34212104	A / B	G	10	46	104	12	65	20
NSP 12x132/74	34212132	A	G	10	74	132	12	65	20
NSP 16x69/12	34216069	A / B	G	12	12	69	16	65	20
NSP 16x113/49	34216113	A / B	G	12	49	113	16	70	10
NSP 16x148/83	34216148	A	G	12	83	148	16	70	10
NSP 20x93/20	34220093	A / B	G	16	20	93	20	75	10
NSP 20x125/52	34220125	A / B	G	16	52	125	20	75	5
NSP 20x170/96	34220170	A	G	16	96	170	20	75	5

Material/Finish: G = Electro-Plating

Ref. Example NSP-A 10x46/6G: A = Type A, 10=drill diameter, 46 = total length, 6 = fixture thickness, G = Electro plating.



## 3.5 Sleeve Anchor NSP

### Applications:

Quick and simple installation as well as remarkable retaining load for medium duty fastening, suitable for steel frames, channels, machines, racking systems, etc...

### Suitable Base Material:

- Concrete in the compression zone
- Hard natural stone

### Special Features:

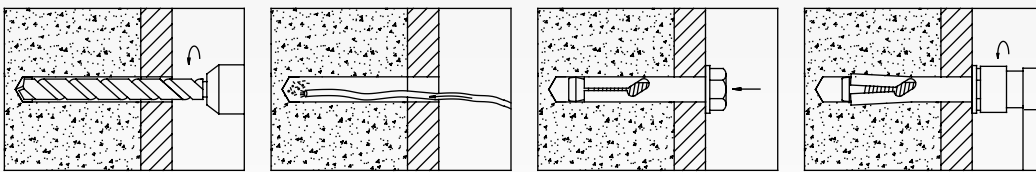
- Special stainless steel wedge sleeve to ensure reliable anchoring and anti-rotation expansion
- Quick and simple installation
- Thread diameter = drill diameter, less drilling
- Fire resistant

### Material:

- Steel galvanized to 5 microns & yellow passivated
- A2 & A4 stainless steel on request

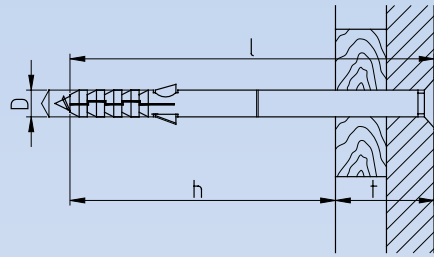
Recommended Working Load (Static) in Uncracked 30 N/mm <sup>2</sup> Concrete				
Size	Recomm. working load kN	Anchor spacing ≥cm	Edge distance ≥cm	Fixture thickness ≥cm
NSP 6/.. (M4.5)	1.7	10	7.5	7
NSP 8/.. (M 6)	2.3	13	9	8
NSP 10/.. (M 8)	3.5	16	10	10
NSP 12/.. (M10)	5.9	20	12.5	11
NSP 16/.. (M12)	7	22	14	12
NSP 20/.. (M16)	8.8	28	17	13

### Installation Demo





### 3.6 Nylon Plug NVP



Technical Data											
Description	Ordering code	Material /Finish Screw	Dimensions & Installation					Package PCs	Safe Working Load in Various Bases		
			Max. fixture thickness t (mm)	Total length l (mm)	Drill Ø (mm) D (mm)	Anchoring depth h (mm)			Concrete ≥25N/mm <sup>2</sup> N	Solid brick ≥15N/mm <sup>2</sup> N	Cavity brick ≥5N/mm <sup>2</sup> N
NVP 8x60/20	35108060	G,S,V	20	60	8	40	50	800	700	300	
NVP 8x80/40	35108080	G,S,V	40	80	8	40	50	800	700	300	
NVP 10x80/30	35110080	G,S,V	30	80	10	50	50	1000	860	400	
NVP 10x100/50	35110100	G,S,V	50	100	10	50	50	1000	860	400	
NVP 10x115/65	35110115	G,S,V	65	115	10	50	50	1000	860	400	
NVP 10x135/85	35110135	G,S,V	85	135	10	50	50	1000	860	400	
NVP 10x160/110	35110160	G,S,V	110	160	10	50	25	1000	860	400	



### 3.6 Nylon Plug NVP

#### Applications:

Through fixing for interior construction and external cladding work, such as door and window fixing etc.

#### Suitable Base Material:

- Concrete natural stone
- Bricks, masonry

#### Special Features:

- Plug flushes with surface
- Special wings prevent expansion part from turning
- Special lugs guarantee in high holding power
- Pre-assembled complete with screw

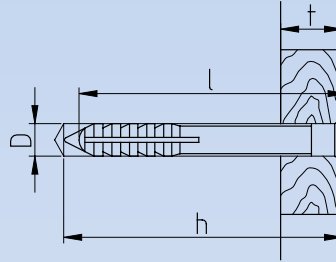
#### Material:

- Hard-wearing, high-grade nylon with zinc-plated screw
- A2 & A4 screws available on request





### 3.7 Quick Nail Plug NVL



Mago UVL Quick Nail Plug							
Description	Ordering code	Screw material /Finish	Max. fixture thickness t (mm)	Total length l (mm)	Drill Ø (mm) D (mm)	Drill depth through fixture h (mm)	Package PCs
NVL 5x36/6	35205036	G,S	6	36	5	45	200
NVL 5x45/15	35205045	G,S	15	45	5	56	100
NVL 6x35/5	35206035	G,S	5	35	6	45	100
NVL 6x42/12	35206042	G,S	12	42	6	53	100
NVL 6x55/25	35206055	G,S	25	55	6	65	100
NVL 8x57/12	35208057	G,S	12	57	8	68	100
NVL 8x75/30	35208075	G,S	30	75	8	85	100
NVL 8x100/60	35208100	G,S	60	100	8	110	50
NVL 8x120/80	35208120	G,S	80	120	8	130	50

Recommended Working Load		
Size	Concrete ≥25N/mm <sup>2</sup>	Solid brick ≥15N/mm <sup>2</sup>
	N	N
NVL 5x..	150	140
NVL 6x..	250	250
NVL 8x..	400	400



### 3.7 Quick Nail Plug NVL

#### Applications:

Through fixing for interior construction and external cladding work, such as door and window fixing etc.

#### Suitable Base Material:

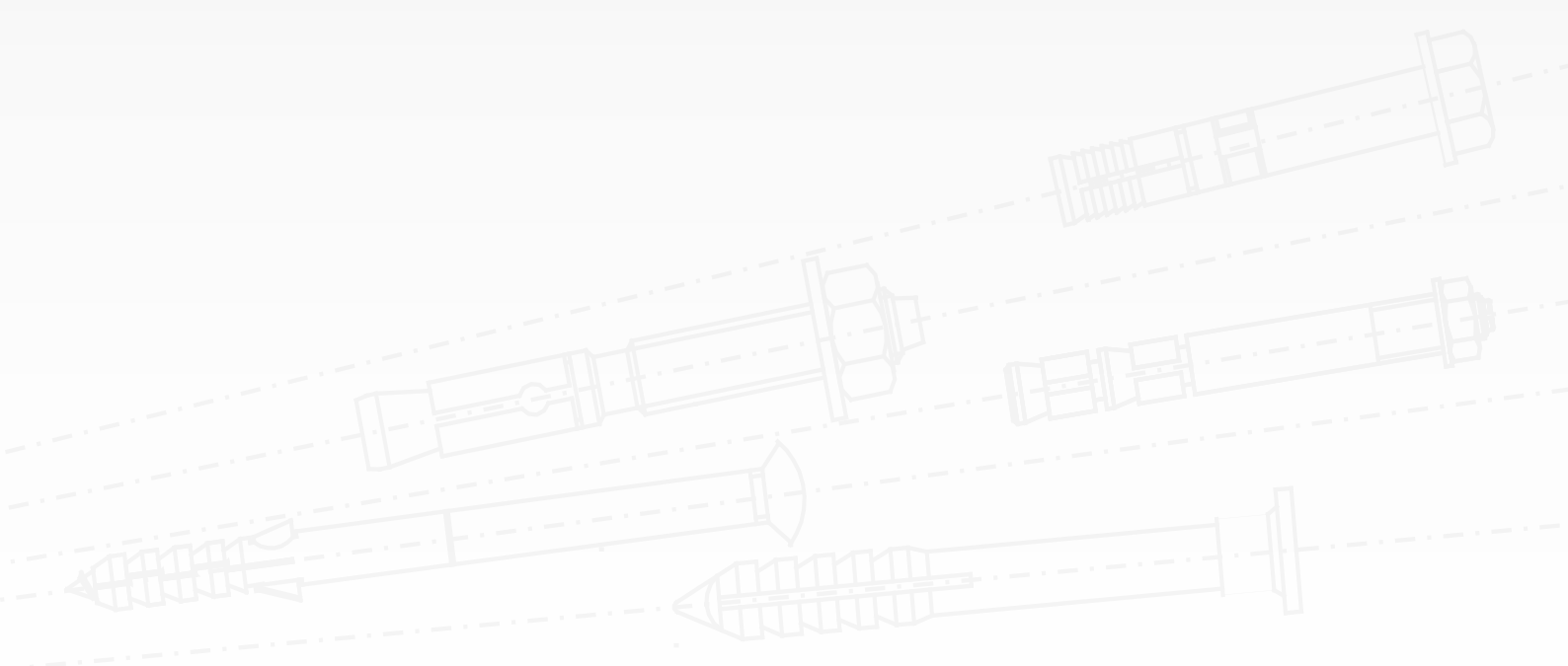
- Concrete natural stone
- Bricks, masonry

#### Special Features:

- Plug flushes with surface
- Special wings prevent expansion part from turning
- Special lugs guarantee in high holding power
- Nail screw detachable for removing the fixture

#### Material:

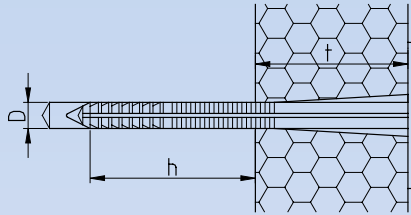
- Hard-wearing, high-grade nylon with zinc-plated screw
- A2 & A4 screws available on request







### 3.8 Insulation Plug NVI



Mago Insulation Plug NVI					
Description	Ordering code	Max. fixture thickness t (mm)	Drill $\varnothing$ (mm) D (mm)	Anchoring depth h (mm)	Package PCs
NVI 10/0-30	35510030	0-30	10	32	200
NVI 10/40-60	35510060	40-60	10	32	200
NVI 10/60-80	35510080	60-80	10	32	200
NVI 10/80-100	35510100	80-100	10	32	200
NVI 10/100-120	35510120	100-120	10	32	200
NVI 10/120-140	35510140	120-140	10	32	200
NVI 10/140-160	35510160	140-160	10	32	200



### 3.8 Insulation Plug NVI

#### **Applications:**

Quick and easy for fastening solid insulation materials

#### **Suitable Base Material:**

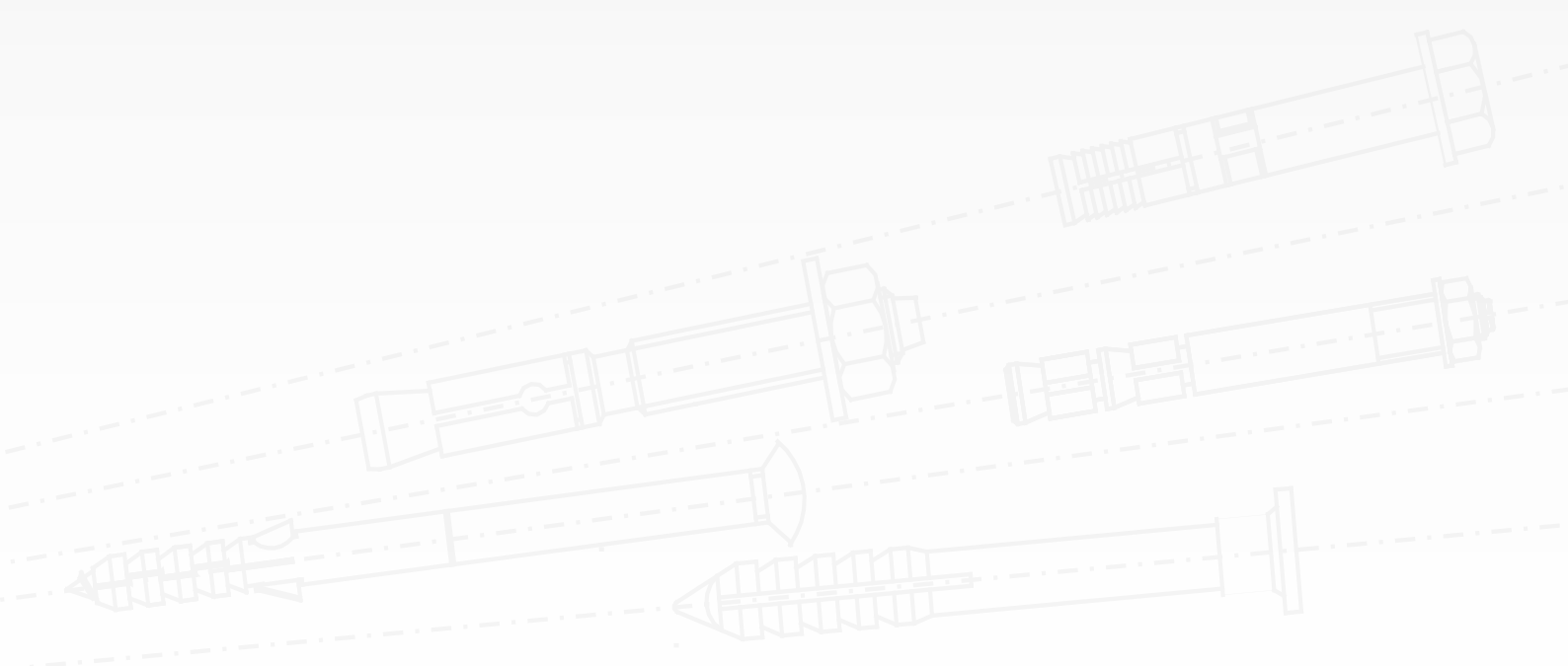
- Concrete light-weight concrete
- Bricks, masonry

#### **Special Features:**

- Quick impact expansion
- Big washer preferred for plastering
- Special insertion stop prevents insulation material from being over-pressed
- Pre-assembled complete with screw

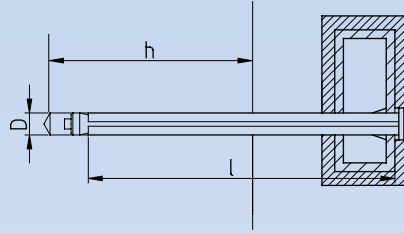
#### **Material:**

High-grade plastic, steel nail available on request





### 3.9 Metal Frame Plug NMT



Metal Frame Plug NMT						
Description	Ordering code	Sleeve length l (mm)	Max. fixture thickness t (mm)	Drill $\varnothing$ (mm) D (mm)	Min. drill depth h (mm)	Package PCs
NMT 08x72/20	35408072	72	20	8	38	250
NMT 08x92/40	35408092	92	40	8	38	250
NMT 08x112/60	35408112	112	60	8	38	250
NMT 08x132/80	35408132	132	80	8	38	250
NMT 010x92/40	35410092	92	40	10	38	200
NMT 010x112/60	35410112	112	60	10	38	200
NMT 010x132/80	35410132	132	80	10	38	100
NMT 010x152/100	35410152	152	100	10	38	100
NMT 010x182/130	35410182	182	130	10	38	50
NMT 010x202/150	35410202	202	150	10	38	50

Recommended Working Load			
Size	Concrete $\geq 25 \text{ N/mm}^2$	Solid brick $\geq 15 \text{ N/mm}^2$	Cavity brick $\geq 5 \text{ N/mm}^2$
	N	N	N
NMT 8x..	350	350	300
NMT 10x..	500	500	400



### 3.9 Metal Frame Plug NMT

#### Applications:

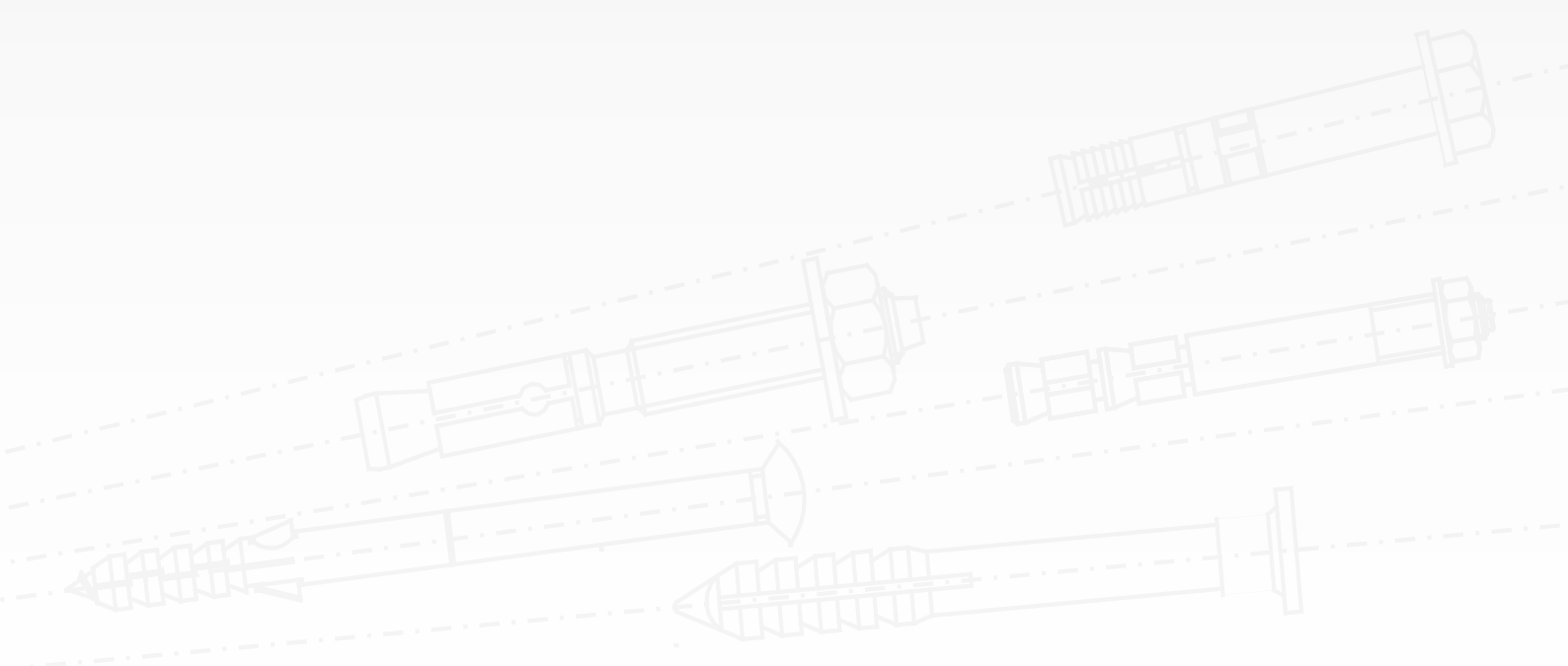
Through fixing for fastening timber, plastic or steel frames to concrete, hollow or solid masonry.

#### Suitable Base Material:

- Concrete, lightweight concrete
- Bricks, masonry

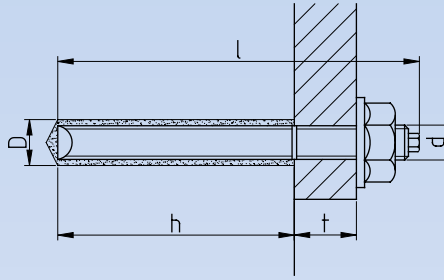
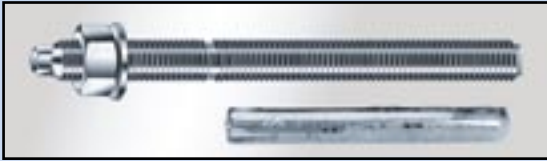
#### Special Features:

- Fire resistant
- Stop lugs for solid and cavity profiles
- No frame distortion
- Quick installation





### 3.10 Chemical Anchor Stud NPT



Technical Data							
Description	Code	Material /Finish	Thread size d (mm)	Max. fixture thickness t (mm)	Total length l (mm)	Drill $\varnothing$ D (mm)	Min. drill depth h (mm)
NPT 10x130/22	32110130	G,S,V	10	22	130	12	90
NPT 10x165/57	32110165	G,S,V	10	57	165	12	90
NPT 10x190/82	32110190	G,S,V	10	82	190	12	90
NPT 12x160/30	32112160	G,S,V	12	30	160	14	110
NPT 12x220/90	32112220	G,S,V	12	90	220	14	110
NPT 12x250/120	32112250	G,S,V	12	120	250	14	110
NPT 12x300/170	32112300	G,S,V	12	170	300	14	110
NPT 16x165/13	32116165	G,S,V	16	13	165	18	130
NPT 16x190/38	32116190	G,S,V	16	38	190	18	130
NPT 16x250/98	32116250	G,S,V	16	98	250	18	130
NPT 16x300/148	32116300	G,S,V	16	148	300	18	130
NPT 20x220/30	32120220	G,S,V	20	30	220	22	170
NPT 20x260/70	32120260	G,S,V	20	70	260	22	170
NPT 20x300/110	32120300	G,S,V	20	110	300	22	170
NPT 24x300/65	32124300	G,S,V	24	65	300	28	220
NPT 30x380/70	32130380	G,S,V	30	70	380	35	280

Material/Finish: G = Electro-Plating, S = Stainless Steel A2, V = Stainless Steel A4  
 Ref. Example NPT 12x160/30G: 12 = thread size, 160 = total length, 30 = fixture thickness, G = Electro-Plating

### Chemical Capsule NEP

Recommended Working Load (Static) in Uncracked 30 N/mm <sup>2</sup> Concrete									
Description	Code	Drill $\varnothing$	Min. drill depth	Package PCs	Recomm. tensile load	Recomm. shear load	Anchor spacing	Edge distance	Fixture thickness
		d <sub>0</sub> (mm)	h <sub>0</sub> (mm)		kN	kN			
NEP 12/M10	33110090	12	90	10	8	7	18	9	11
NEP 14/M12	33112110	14	110	10	12	10.5	22	11	13
NEP 18/M16	33116130	18	130	10	17.2	15	25	13	15
NEP 22/M20	33120170	22	170	10	30	27	35	17	20
NEP 28/M24	33124220	28	220	10	49.5	38	43	22	23
NEP 35/M30	33130280	35	280	5	76	62	55	28	30



## 3.10 Chemical Anchor Stud NPT

### Applications:

Heavy duty anchor suitable for fixing steel structures and heavyweight machinery, as well as hand rails, storage and racking systems etc. This anchor causes no tension in the components.

### Suitable Base Material:

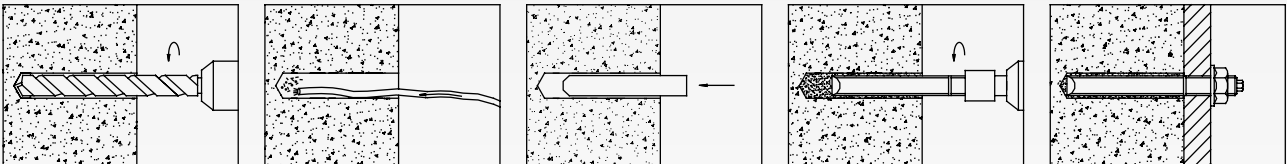
- Concrete
- Hard natural stone

### Special Features:

- While expansion anchors cause high stress inside the structure component, this anchor causes no expansion stress at all
- Minimum edge distance and small anchor spacing allowed while keeping high loads
- Wide range of applications

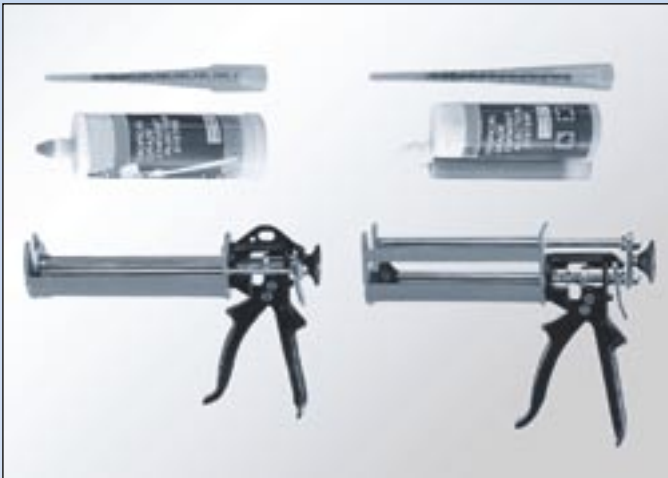
Curing Interval until Full Load Bearing Capacity	
Temperature inside concrete	Interval
20°C	20 min
+10°C to +20°C	30 min
0°C to +10°C	1 hour
-5°C to 0°C	5 hour

Installation Demo





### 3.11 High Performance Chemical Mortar Fixing



Recommended Working Load for Anchoring Rebar										
Rebar nom. diameter Ø (mm)	Setting hole diameter Ø (mm)	Setting depth = Depth of setting hole (mm)								
		120	150	180	210	240	270	300	400	460
10	14	11.4	12.3							
12	16	12.3	14.9	16.0						
14	18		15.1	18.6	22.9					
16	22		16.9	17.7	24.3	32.0				
18	25			22.0	25.7	37.1	50.9			
20	28				25.4	39.4	53.1	57.4		
22	30					40.3	56.9	64.9	73.1	
25	32						57.4	72.9	84.9	
28	37									94.3

Curing Interval until Full Load Bearing Capacity	
Temperature inside concrete	Interval
20°C	20 min
+10°C to +20°C	30 min
0°C to +10°C	1 hour
-5°C to 0°C	5 hour



### 3.11 High Performance Chemical Mortar Fixing

#### Applications:

Chemical mortar anchors almost any element from the threaded studs, rebars, tubes hooks, lugs to beams in solid material components, such as concrete, natural stone and bricks.

#### Suitable Base Material:

- Concrete
- Natural stone, bricks

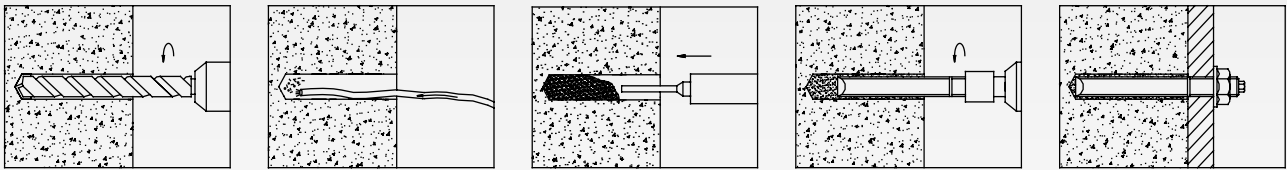
#### Special Features:

- Anchoring without tension and expansion stress
- Minimum edge distance and small anchor spacing allowed while keeping high loads
- Wide range of applications
- Vibration resistance
- Long storage life

#### Material:

- Special epoxy resin with curing agents

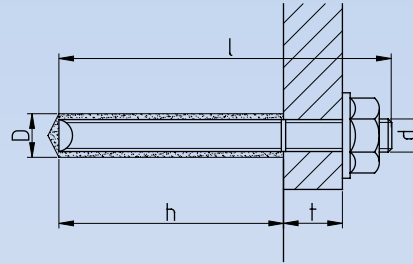
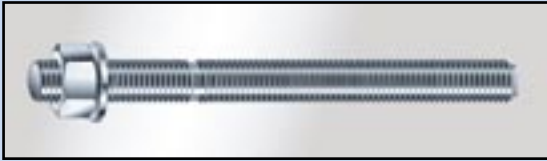
Installation Demo







### 3.12 Anchor Stud NKT



Technical Data								
Description	Code	Material /Finish	Thread size d1 (mm)	Max. fixture thickness t (mm)	Total length l (mm)	Drill $\varnothing$ d <sub>o</sub> (mm)	Min. drill depth h <sub>o</sub> (mm)	
NKT 10x130/22	32210130	G,S,V	10	22	130	12	90	
NKT 10x190/82	32210190	G,S,V	10	82	190	12	90	
NKT 12x160/30	32212160	G,S,V	12	30	160	14	110	
NKT 12x250/120	32212250	G,S,V	12	120	250	14	110	
NKT 16x190/38	32216190	G,S,V	16	38	190	18	130	
NKT 16x300/148	32216300	G,S,V	16	148	300	18	130	
NKT 20x260/70	32220260	G,S,V	20	70	260	22	170	
NKT 24x300/65	32224300	G,S,V	24	65	300	28	220	
NKT 30x380/70	32230380	G,S,V	30	70	380	35	280	



## 3.12 Anchor Stud NKT

### Applications:

Heavy duty anchor suitable for fixing steel structures and heavyweight machinery, as well as hand rails storage & racking systems etc. This anchor causes no tension in the components.

### Suitable Base Material:

- Concrete
- Natural stone, bricks

Installation Demo

