



PRODUCT DATA

Sleeve Anchor Button Head with Break-off Nut

Zinc plated button head sleeve anchor with stud and hexagonal head blind security nut. The hex nut breaks away when installed leaving a tamper proof dome head.

Applications	Trades
<ul style="list-style-type: none"> Fixing of hand rails, signage, seating and lighting in public areas. Correction facilities to prevent property damage and to reduce risk of escape and harm. Hospitals, community parks, railway stations, stadiums, to protect assets and prevent property theft or damage. 	<ul style="list-style-type: none"> Carpenters Construction contractors

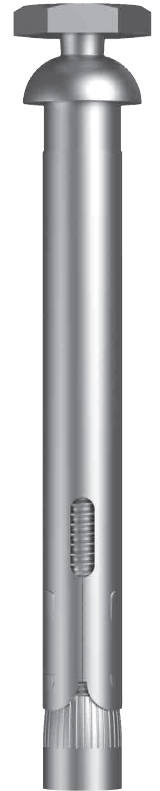
Material	Carbon Steel
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Finish	Zinc Plated (RoHS Compliant)
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Part	QFind	Length	Diameter	Pack Qty
		L (mm)	D (mm)	
MTFHDS02010060	DS0210060	65	10	50
MTFHDS02010080	DS0210080	85	10	50
MTFHDS02010100	DS0210100	105	10	50
MTFHDS02012070	DS0212070	80	12	50
MTFHDS02012100	DS0212100	110	12	25
MTFHDS02012120	DS0212120	130	12	25

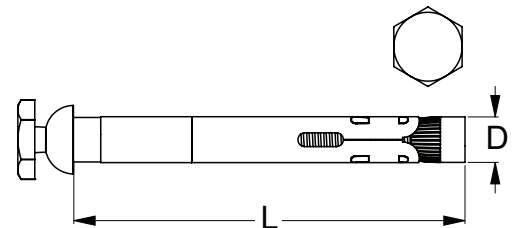


Break-off Nut
Nut AF = 15mm
(Spanner Size)



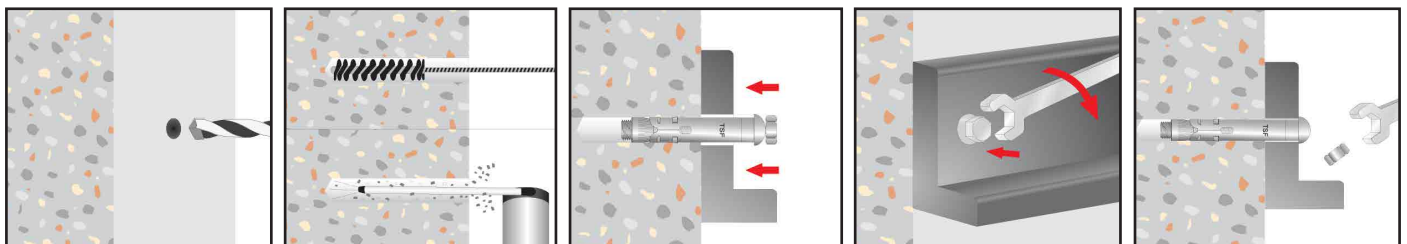
Features

- Installation with standard spanner/socket.
- Permanent tamper proof security fixing.
- Once hex nut shears away, leaves a smooth dome head.



Installation

The anchor is set when the hex nut breaks off.



*Installation with impact drivers not recommended

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

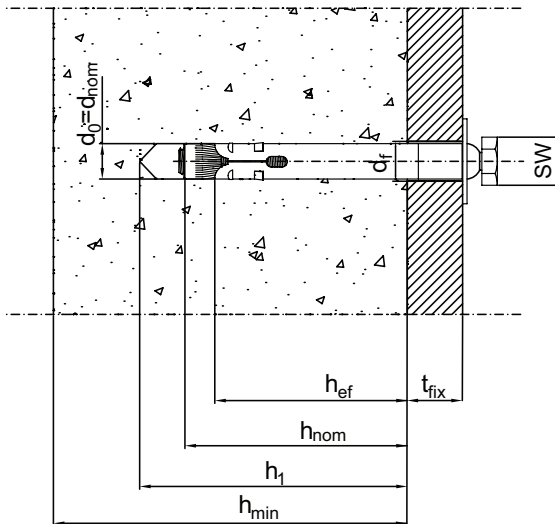
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Installation Data

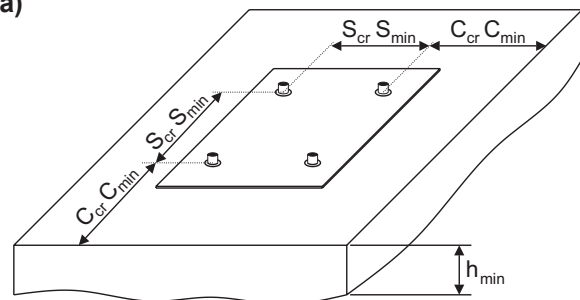


Setting Details	
d_{nom}	anchor diameter
l_t	anchor length
M	screw diameter
l_v	screw length
t_{fix}	maximum thickness of fixture
d_0	drill hole diameter
h_1	minimum depth of drill hole
h_{min}	minimum thickness of concrete member
h_{nom}	minimum overall anchor embedment depth in the concrete
h_{ef}	minimum effective anchorage depth
d_f	diameter of clearance hole in the fixture
SW	wrench size
c_{min}	minimum allowable edge distance
s_{min}	minimum allowable spacing
C_{cr}	edge distance for ensuring the transmission of the characteristic resistance of a single anchor
S_{cr}	spacing for ensuring the transmission of the characteristic resistance of a single anchor

Part	Anchor Size	Screw Size	t_{fix}	d_0	h_1	h_{min}	h_{nom}	h_{ef}	d_f	SW	c_{min}	s_{min}	$c_{cr,N}$	$s_{cr,N}$
	$d \times l_t$ (mm)	$M \times l_v$ (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
MTFHDS02010060	10 x 65	8 x 65	5	10	80	100	60	50	12	15	50	50	75	150
MTFHDS02010080	10 x 85	8 x 85	25											
MTFHDS02010100	10 x 105	8 x 105	45											
MTFHDS02012070	12 x 80	10 x 80	10	12	90	120	70	60	14	15	60	60	90	180
MTFHDS02012100	12 x 110	10 x 110	40											
MTFHDS02012120	12 x 130	10 x 130	60											

Characteristic Loads in Non-Cracked Concrete (20 MPa)

Part	Pull Out	Shear
	(kN)	(kN)
MTFHDS02010060	7.5	9.5
MTFHDS02010080		
MTFHDS02010100		
MTFHDS02012070	10	15
MTFHDS02012100		
MTFHDS02012120		



Pull-out and shear showed in the table are CHARACTERISTIC LOADS from tests run on non-cracked concrete C20/25 without edge and spacing effect (Pull-out and shear loads are in kN: 1kN = 100Kg).

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