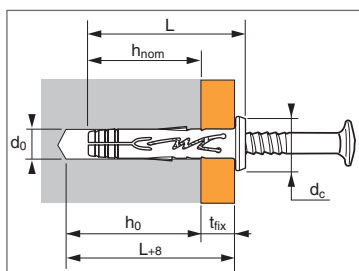


# SPIT HIT M

## SPIT HIT M - A4



**SOCOTEC**  
N° PX 1058



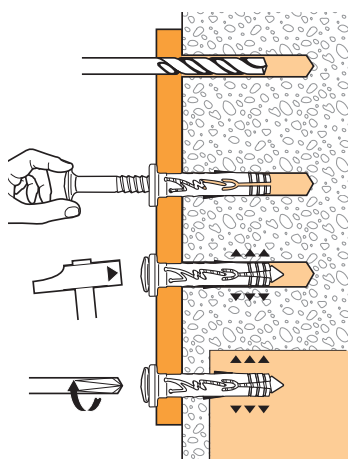
### APPLICATION

- Insulation cladding
- Profiles for thin coat external
- Insulation systems
- Drywall track
- Wood
- Flashing
- Electrical accessories
- Collar (Atlas ...)
- ...

### MATERIAL

- **Body:** polyamid 6
- **Expansion nail:**
  - FR 15 zinc coated steel (5 µm)
  - A4, stainless steel
- **Screw head type:** PZ2

### INSTALLATION



➤ **Hammer-set anchor for light duty fixing for concrete and all materials types**

### Technical data

SPIT HIT M	Embedment depth (mm) <b>h<sub>nom</sub></b>	Maximum thickness of part to be fixed in concrete (mm) <b>t<sub>fix</sub><sup>(1)</sup></b>	Minimum thickness of base material (mm) <b>h<sub>min</sub></b>	Drilling depth in base material (mm) <b>h<sub>0</sub></b>	Drilling depth forward the part to be fixed (mm) <b>L+8</b>	Drilling diameter (mm) <b>d<sub>0</sub></b>	Cylinder head diameter (mm) <b>dc</b>	Total anchor length (mm) <b>L</b>	Type of nail -	Code		
										Zinc coated steel nail	Stainless steel A4 nail	
5-5/27P	20	5	60	30	35	5	9	27	PZ2	050116		
5-15/37P		15			45			37		050117		
6-5/32P	25	5	65	35	40	6	11	32	PZ2	050118	050157	
6-12/39P		12			47			39		050119		
6-25/52P		25			60			52		050121	050158	
6-40/67P		40			75			67		050122		050159
6-12/39V	25	12	65	35	47	6	10	39	PZ2	050129		
6-25/52V		25			60			52		050131		
6-40/67V		40			75			67		050132		
6/5-M6		-			-			-		32		M6
6/5-M7	30	-	65	40	-	6	11	32	M7	050142		
8-10/42P	30	10	65	40	50	8	13	42	PZ2	050123	050161	
8-30/62P		30			70			62		050124		050162
8-60/92P		60			100			92		050125	050163	
8-80/112P		80			120			112		050126		
8-100/132P		100			140			132		050127		
8-30/62V		30			70			62		050134	PZ2	
8-60/92V		60			100			92		050135		
8-80/112V		80			120			112		050136		
8-100/132V	100	140	132	050137								

(1) In masonry, the thickness of part to be fixed could be fluctuate to ± 5 mm from t<sub>fix</sub> for Ø5 et 6 mm, and to ± 10 mm for Ø8 mm, to ensure a good contact between collar and the part to be fixed.

### Ultimate loads (N<sub>Ru,m</sub>, V<sub>Ru,m</sub>)

#### TENSILE IN kN

#### SHEAR IN kN

Anchor size	Ø5	Ø6	Ø8	Base material					
				5/5 5/15	6/5 6/12 6/25	6/40	8/10 8/30 8/60	8/80 8/100	
<b>Concrete (C20/25)</b>									
N <sub>Ru,m</sub>	0,9	1,5	2,1	V <sub>Ru,m</sub>	2,5	3,75	3,0	5,75	4,75
<b>Solid concrete blocks type B120 (f<sub>c</sub> = 13,5 N/mm<sup>2</sup>)</b>									
N <sub>Ru,m</sub>	1,4	1,55	1,65	V <sub>Ru,m</sub>	2,5	3,75	3,0	5,75	4,75
<b>Clay bricks (f<sub>c</sub> = 55 N/mm<sup>2</sup>)</b>									
N <sub>Ru,m</sub>	1,6	2,6	3,6	V <sub>Ru,m</sub>	2,5	3,75	3,0	5,75	4,75
<b>Hollow concrete blocks type B40 not rendered (f<sub>c</sub> = 6,5 N/mm<sup>2</sup>)</b>									
N <sub>Ru,m</sub>	0,85	0,95	1,0	V <sub>Ru,m</sub>	2,5	3,0	3,0	3,75	3,75
<b>Hollow concrete blocks type B40 rendered (f<sub>c</sub> = 6,5 N/mm<sup>2</sup>)</b>									
N <sub>Ru,m</sub>	1,25	2,25	3,0	V <sub>Ru,m</sub>	2,5	3,0	3,0	3,75	3,75
<b>Hollow clay bricks type Eco-30 not rendered (f<sub>c</sub> = 4,5 N/mm<sup>2</sup>)</b>									
N <sub>Ru,m</sub>	0,75	1,0	1,25	V <sub>Ru,m</sub>	0,75	1,0	1,0	1,25	1,25
<b>Hollow clay bricks type Eco-30 rendered (f<sub>c</sub> = 4,5 N/mm<sup>2</sup>)</b>									
N <sub>Ru,m</sub>	1,25	1,75	2,25	V <sub>Ru,m</sub>	1,25	1,5	1,75	2,25	2,25
<b>Engineering clay bricks not rendered (f<sub>c</sub> = 14,5 N/mm<sup>2</sup>)</b>									
N <sub>Ru,m</sub>	0,75	1,0	1,25	V <sub>Ru,m</sub>	2,5	3,0	3,0	3,75	3,75
<b>Engineering clay bricks rendered (f<sub>c</sub> = 14,5 N/mm<sup>2</sup>)</b>									
N <sub>Ru,m</sub>	1,25	1,75	2,25	V <sub>Ru,m</sub>	2,5	3,75	3,0	4,75	4,75
<b>Aerated concrete (M<sub>vn</sub> = 500 kg/m<sup>3</sup>)</b>									
N <sub>Ru,m</sub>	0,2	0,3	0,42	V <sub>Ru,m</sub>	0,2	0,3	0,3	0,42	0,42
<b>Plasterboard type BA13</b>									
N <sub>Ru,m</sub>	0,2	0,2	0,25	V <sub>Ru,m</sub>	0,2	0,2	0,2	0,25	0,25
<b>Plasterboard type BA10 + polystyren</b>									
N <sub>Ru,m</sub>	0,25	0,25	0,3	V <sub>Ru,m</sub>	0,25	0,25	0,25	0,3	0,3

# SPIT HIT M

## SPIT HIT M - A4



### Design loads ( $N_{Rd}$ , $V_{Rd}$ ) and Recommended loads ( $N_{rec}$ , $V_{rec}$ ) for one anchor without edge or spacing influence

$$N_{Rd} = \frac{N_{Ru,m}^*}{3,5} ; \quad N_{Rec} = \frac{N_{Ru,m}^*}{5} \quad \text{*Derived from test results}$$

$$V_{Rd} = \frac{V_{Ru,m}^*}{3,5} ; \quad V_{Rec} = \frac{V_{Ru,m}^*}{5} \quad \text{*Derived from test results}$$

#### TENSILE IN kN

#### SHEAR IN kN

Base material	Anchor size	Anchor size			Anchor size					
		Ø5	Ø6	Ø8	5/5 5/15	6/5 6/12 6/25	6/40	8/10 8/30 8/60	8/80 8/100	
<b>Concrete (C20/25)</b>										
	$N_{Rd}$	0,25	0,42	0,59	$V_{Rd}$	0,70	1,05	0,84	1,61	1,33
	$N_{Rec}$	0,18	0,3	0,42	$V_{Rec}$	0,5	0,75	0,6	1,15	0,95
<b>Solid concrete blocks type B120 (<math>f_c = 13,5 \text{ N/mm}^2</math>)</b>										
	$N_{Rd}$	0,39	0,43	0,46	$V_{Rd}$	0,70	1,05	0,84	1,61	1,33
	$N_{Rec}$	0,28	0,31	0,33	$V_{Rec}$	0,5	0,75	0,6	1,15	0,95
<b>Clay bricks (<math>f_c = 55 \text{ N/mm}^2</math>)</b>										
	$N_{Rd}$	0,45	0,73	1,01	$V_{Rd}$	0,70	1,05	0,84	1,05	1,33
	$N_{Rec}$	0,32	0,52	0,72	$V_{Rec}$	0,5	0,75	0,6	0,75	0,95
<b>Hollow concrete blocks type B40 not rendered (<math>f_c = 6,5 \text{ N/mm}^2</math>)</b>										
	$N_{Rd}$	0,24	0,27	0,28	$V_{Rd}$	0,70	0,84	0,84	0,63	1,05
	$N_{Rec}$	0,17	0,19	0,2	$V_{Rec}$	0,5	0,6	0,6	0,45	0,75
<b>Hollow concrete blocks type B40 rendered (<math>f_c = 6,5 \text{ N/mm}^2</math>)</b>										
	$N_{Rd}$	0,35	0,63	0,84	$V_{Rd}$	0,70	0,84	0,84	1,33	1,05
	$N_{Rec}$	0,25	0,45	0,6	$V_{Rec}$	0,5	0,6	0,6	0,95	0,75
<b>Hollow clay bricks type Eco-30 not rendered (<math>f_c = 4,5 \text{ N/mm}^2</math>)</b>										
	$N_{Rd}$	0,21	0,28	0,35	$V_{Rd}$	0,21	0,28	0,28	0,07	0,35
	$N_{Rec}$	0,15	0,2	0,25	$V_{Rec}$	0,15	0,2	0,2	0,05	0,25
<b>Hollow clay bricks type Eco-30 rendered (<math>f_c = 4,5 \text{ N/mm}^2</math>)</b>										
	$N_{Rd}$	0,35	0,49	0,63	$V_{Rd}$	0,35	0,49	0,49	0,0	0,63
	$N_{Rec}$	0,25	0,35	0,45	$V_{Rec}$	0,25	0,35	0,35	0,0	0,45
<b>Engineering clay bricks not rendered (<math>f_c = 14,5 \text{ N/mm}^2</math>)</b>										
	$N_{Rd}$	0,21	0,28	0,35	$V_{Rd}$	0,70	0,84	0,84	0,32	1,05
	$N_{Rec}$	0,15	0,2	0,25	$V_{Rec}$	0,5	0,6	0,6	0,23	0,75
<b>Engineering clay bricks rendered (<math>f_c = 14,5 \text{ N/mm}^2</math>)</b>										
	$N_{Rd}$	0,35	0,49	0,63	$V_{Rd}$	0,70	1,05	0,84	0,32	1,33
	$N_{Rec}$	0,25	0,35	0,45	$V_{Rec}$	0,5	0,75	0,6	0,23	0,95
<b>Aerated concrete (<math>M_{vn} = 500 \text{ kg/m}^3</math>)</b>										
	$N_{Rd}$	0,06	0,08	0,12	$V_{Rd}$	0,06	0,08	0,08	0,21	0,12
	$N_{Rec}$	0,04	0,06	0,08	$V_{Rec}$	0,04	0,06	0,06	0,15	0,08
<b>Plasterboard type BA13</b>										
	$N_{Rd}$	0,06	0,06	0,07	$V_{Rd}$	0,06	0,06	0,06	0,13	0,07
	$N_{Rec}$	0,04	0,04	0,05	$V_{Rec}$	0,04	0,04	0,04	0,09	0,05
<b>Plasterboard type BA10 + polystyren</b>										
	$N_{Rd}$	0,07	0,07	0,08	$V_{Rd}$	0,07	0,07	0,07	0,27	0,08
	$N_{Rec}$	0,05	0,05	0,06	$V_{Rec}$	0,05	0,05	0,05	0,19	0,06

### Spacing data

#### IN CONCRETE

SPIT HIT M	Minimum distance between anchors and from edges (mm)			
	$Ccr,N$ mini	$Ccr,V$ mini	Scr,1 mini without edge influence	Scr,2 mini near one edge
5/5 ; 5/15	25	40	25	60
6/5 ; 6/12 ; 6/25 ; 6/40	25	45	25	70
8/10 ; 8/30 ; 8/60 ; 8/80 ; 8/100	25	60	25	90