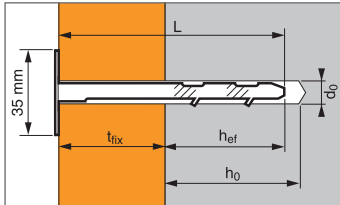




SOCOTEC

N° PT 3043



Washer Ø 11x70  
Eurocode 064 000

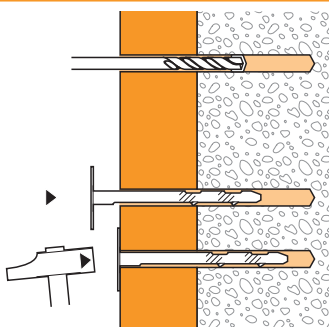
### Applications

- Fire resistant anchor for fixing all types of insulation

### Material

- Galvanised body Z275, NF EN 10142
- Stainless steel body Z6 CN 18-09

### Installation



## Fire resistant insulation anchor

### Technical data

SPIT ISOMET	Anchor depth (mm)	Insulation thickness (mm)	Ø drill bit (mm)	Drilling depth (mm)	Total anchor length (mm)	Eurocode
<b>Galvanised</b>	$h_{ef}$	$t_{fix}$	$d_0$	$h_0$	<b>L</b>	
8/30		30			80	059730
8/60		60			110	059740
8/90	50	90	8	60	140	059750
8/120		120			170	059760
8/150		150			200	059770
<b>Stainless steel</b>						
8/30		30			80	059700
8/60	50	60	8	60	110	059710
8/90		90			140	059720

### Ultimate loads ( $N_{Ru,m}$ )

#### TENSILE IN kN

Base material	Galvanised Anchor size 8/30 ; 8/60 ; 8/90 ; 8/120 ; 8/150	Stainless steel Anchor size 8/30 ; 8/60 ; 8/90
<b>Concrete (C20/25)</b>		
$N_{Ru,m}$	0,6	$N_{Ru,m}$ 1,2
<b>Solid concrete blocks type B120 (<math>f_c = 13,5 \text{ N/mm}^2</math>)</b>		
$N_{Ru,m}$	0,4	$N_{Ru,m}$ 0,6
<b>Clay bricks (<math>f_c = 55 \text{ N/mm}^2</math>)</b>		
$N_{Ru,m}$	0,4	$N_{Ru,m}$ 0,6

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

$$N_{Rd} = \frac{N_{Ru,m}^*}{4} ; N_{Rec} = \frac{N_{Ru,m}^*}{5}$$

\*Derived from test results

#### TENSILE IN kN

Base material	Galvanised Anchor size 8/30 ; 8/60 ; 8/90 ; 8/120 ; 8/150	Stainless steel Anchor size 8/30 ; 8/60 ; 8/90
<b>Concrete (C20/25)</b>		
$N_{Rd}$	0,21	$N_{Rd}$ 0,42
$N_{Rec}$	0,15	$N_{Rec}$ 0,30
<b>Solid concrete blocks type B120 (<math>f_c = 13,5 \text{ N/mm}^2</math>)</b>		
$N_{Rd}$	0,14	$N_{Rd}$ 0,21
$N_{Rec}$	0,10	$N_{Rec}$ 0,15
<b>Clay bricks (<math>f_c = 55 \text{ N/mm}^2</math>)</b>		
$N_{Rd}$	0,14	$N_{Rd}$ 0,21
$N_{Rec}$	0,10	$N_{Rec}$ 0,15

### Fire behaviour for insulation fixed to soffits



#### Maximum tensile service loads recommended on concrete for stability (kN)

Exposure limit	30 min.	1 h	1 h 30 min.	2 h	3 h
<b>SPIT ISOMET GALVANISED</b>	0,13	0,07	0,07	0,07	0,035
<b>SPIT ISOMET ST. STEEL</b>	0,20	0,20	0,20	0,20	0,10

The summary of fire tests performed by CSTB (No. 86.24642) is available on request.