

Nail In Socket



C12/15 CRACKED/NON-CRACKED CONCRETE

Performance Data (C12/15 cracked/non-cracked concrete)

Part Number	Effective Embedment Depth (h_{ef})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance	Design Resistance	Approved Resistance	Design Spacing (s)	Design Edge Distance (c)
			Tensile (N_{Rk})/ Shear* (V_{Rk})	Tensile (N_{Rd})/ Shear (V_{Rd})	Tensile (N_{Ra})/ Shear (V_{Ra})	Tensile/Shear	Tensile/Shear
-	mm	mm	kN	kN	kN	mm	mm
NAS0625	25	80	3.0	2.0	1.4	100	100
NAS0630	30	80	4.0	2.7	1.9	100	100

C20/25-C50/60 CRACKED/NON-CRACKED CONCRETE

Performance Data (C20/25-C50/60 cracked/non-cracked concrete)

Part Number	Effective Embedment Depth (h_{ef})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance	Design Resistance	Approved Resistance	Design Spacing (s)	Design Edge Distance (c)
			Tensile (N_{Rk})/ Shear* (V_{Rk})	Tensile (N_{Rd})/ Shear (V_{Rd})	Tensile (N_{Ra})/ Shear (V_{Ra})	Tensile/Shear	Tensile/Shear
-	mm	mm	kN	kN	kN	mm	mm
NAS0625	25	80	4.5	3.0	2.1	100	100
NAS0630	30	80	5.9	3.9	2.8	100	100

* In case of shear load, shear load with lever arm should be proven by considering $M^0_{Rk,s} = 12.7$ (Nm)

FIRE RESISTANCE DATA

Fire* Resistance Data (C20/25 to C50/60 cracked/non-cracked concrete)**

Part Number	Effective Embedment Depth (h_{ef})	Minimum Concrete Thickness (h_{min})	Design Resistance				Approved Resistance			
			Tensile ($N_{Rd,fr}$)				Tensile ($N_{Ra,fr}$)			
-	mm	mm	30min (R30)	60min (R60)	90min (R90)	120min (R120)	30min (R30)	60min (R60)	90min (R90)	120min (R120)
Tensile Load										
NAS0625	25	80	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4
NAS0630	30	80	0.8	0.7	0.6	0.6	0.6	0.5	0.4	0.4

Fire Resistance Data (C20/25 to C50/60 cracked/non-cracked concrete)

Part Number	Effective Embedment Depth (h_{ef})	Minimum Concrete Thickness (h_{min})	Design Resistance				Approved Resistance			
			Bending Moment ($M^0_{Rd,fr}$) (Nm)				Bending Moment ($M^0_{Ra,fr}$) (Nm)			
-	mm	mm	30min (R30)	60min (R60)	90min (R90)	120min (R120)	30min (R30)	60min (R60)	90min (R90)	120min (R120)
Shear Load With Lever Arm										
NAS0625	25	80	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.4
NAS0630	30	80	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.4

* Only in connection with threaded rod class 5.8. When applying the shear load, shear load with lever arm should be proven.

** The determination covers anchors with a fire attack from one side only. If the fire attack is from more than one side, the design method may be taken only, if the edge distance of the anchor is $c \geq 300$ mm and $\geq 2 h_{ef}$.