



TRUHLÁŘ a spol., s.r.o.

Výrobce hmoždinek a spojovacího materiálu

DECLARATION OF PERFORMANCE



Declaration of performance No.: PVO 01/2023

Trade name: Nail anchor NH / NHH / NHZ

In accordance with regulation: EAD 330284-00-0604

European technical approval: ETA-22/0374

Generic type: Nail anchor NH / NHH / NHZ Ø 6 mm

Use of construction product: Plastic anchors for multiple use in concrete for non-structural applications

Manufacturer: Truhlář a spol., s.r.o.
Klapkova 36
Praha 8, 18200

Manufacturing plant: Truhlář a spol., s.r.o.
Hlavní 812
Hlubočinka, 251 68

System of declaration: System 2+ - Declaration of conformity of the product by manufacturer on the basis of:

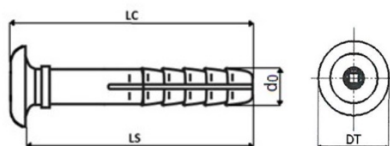
- (a) Tasks of the manufacturer:
 - (1) Initial type-testing of the product
 - (2) Factory production control
 - (3) Testing of samples taken at the factory by the manufacturer in accordance with a control plan.
- (b) Tasks of the notified body
 - (4) Certification of factory production control on the basis of:
 - Initial inspection of factory production control
 - Continuous surveillance, assessment and approval of factory production control.



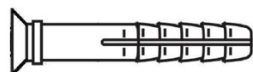
TRUHLÁŘ a spol., s.r.o.

Výrobce hmoždinek a spojovacího materiálu

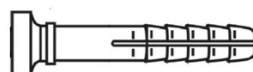
Plastic sleeve NHH 6



Plastic sleeve NH 6



Plastic sleeve NHZ 6



Specific nail

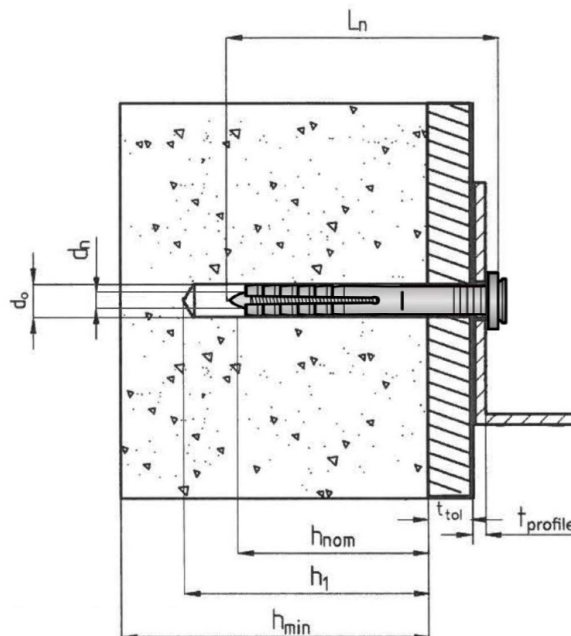
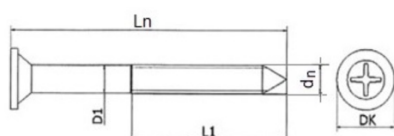


Table A1: Dimensions [mm]

Anchor type	Anchor sleeve ¹⁾			
	d ₀	L _c (±1,00)	L _s (±1,00)	DT (±0,25)
NH 6	6	35	33	10
	6	40	38	10
	6	45	43	10
	6	55	53	10
	6	60	58	10
	6	70	68	10
NHH 6	6	80	78	10
	6	35	33	12
	6	40	38	12
	6	45	43	12
	6	55	53	12
	6	60	58	12
NHZ 6	6	70	68	12
	6	80	78	12
	6	35	31,8	10
	6	40	36,8	10
	6	45	41,8	10
	6	55	51,8	10
	6	60	56,8	10
	6	70	66,8	10
	6	80	76,8	10



TRUHLÁŘ a spol., s.r.o.

Výrobce hmoždinek a spojovacího materiálu

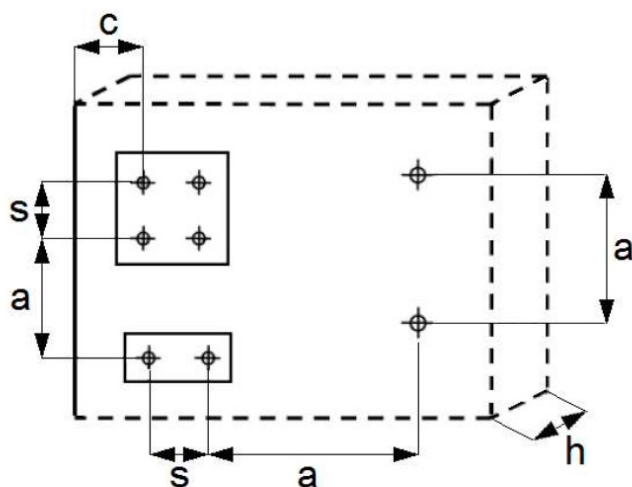
Table B1: Installation parameters

Anchor type		NH / NHH / NHZ
Use category		a
Nominal drill hole diameter	d_o [mm]	6
Cutting diameter of drill bit	$d_{cut} \leq$ [mm]	6,4
Depth of drill hole to deepest point	$h_1 \geq$ [mm]	35
Overall embedment depth in the base material	$h_{nom} \geq$ [mm]	30
Diameter of clearance hole in the fixture	d_r [mm]	6

Table B2: Minimum thickness of member, edge distance and anchor spacing in concrete

Anchor type	Base material	h_{min} [mm]	$C_{cr,N}$ [mm]	C_{min} [mm]	S_{min} [mm]
NH NHH NHZ	Concrete $\geq$ C12/15	100	100	100	100
	Concrete $\geq$ C16/20	100	100	100	100

Scheme of edge distance and spacing in concrete



Nail anchor NH / NHH / NHZ Ø 6 mm

Intended use

Installation parameters

Edge distance and anchor spacing in concrete

Annex B2



TRUHLÁŘ a spol., s.r.o.

Výrobce hmoždinek a spojovacího materiálu

Table C1: Characteristic resistance of the nail

Steel type			Zinc coated steel
Characteristic tension resistance	$N_{Rk,s}$	[kN]	4,39
Partial safety factor	$\gamma_{Ms}^{1)}$		1,58
Characteristic shear resistance	$V_{Rk,s}$	[kN]	2,20
Partial safety factor	$\gamma_{Ms}^{1)}$		1,31
Characteristic bending resistance	$M_{Rk,s}$	[Nm]	2,41
Partial safety factor	$\gamma_{Ms}^{1)}$		1,31

¹⁾in the absence of other national regulations

Table C2: Characteristic resistance for use in cracked and non-cracked concrete, pull-out failure hammer drilling

Anchor type		NH / NHH / NHZ
Concrete $\geq$ C16/20		
Characteristic resistance	$N_{Rk,p}$	[kN] 0,5
Partial safety factor	$\gamma_{Mc}^{1)}$	1,8
Concrete C12/15		
Characteristic resistance	$N_{Rk,p}$	[kN] 0,3
Partial safety factor	$\gamma_{Mc}^{1)}$	1,8

¹⁾in the absence of other national regulations

Table C3: Displacement under tension and shear loading in concrete

Anchor type	Tension load			Shear load		
	N [kN]	δ_{N0} [mm]	$\delta_{N\infty}$ [mm]	V [kN]	δ_{V0} [mm]	$\delta_{V\infty}$ [mm]
NH NHH NHZ	0,2	0,78	1,56	0,79	2,77	4,16

Valid for temperature ranges according to Annex B1

Nail anchor NH / NHH / NHZ Ø 6 mm

Performances
Characteristic resistance of the screw

Annex C1



TRUHLÁŘ a spol., s.r.o.

Výrobce hmoždinek a spojovacího materiálu

This declaration of performance is issued under the sole responsibility of the manufacturer

Prague, 10.1.2023

Radek Truhlář – managing director



TRUHLÁŘ a spol., s.r.o.
Klapkova 36, 182 00 Praha 8
Sklad: Hlubočinka 812, 251 68 Praha-východ
Tel.: +420 323 671 745 Fax: +420 323 671 744