



Leistungserklärung **Drehstiftdübel**

6,0x40

Art.Nr.: 687444

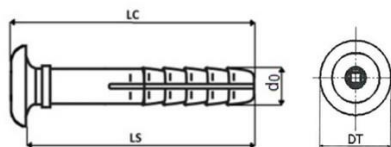
Declaration of performance No.:	PVO 01/2023
Trade name:	Nail anchor NH / NHH / NHZ
In accordance with regulation:	EAD 330284-00-0604
European technical approval:	ETA-22/0094
Generic type:	Nail anchor NH / NHH / NHZ Ø 6 mm
Use of construction product:	Plastic anchors for multiple use in concrete for non-structural applications
Manufacturer:	GMS Bautechnik GmbH Sonnengasse 13 9020 Klagenfurt am Wörthersee Austria
Manufacturing plant:	Plant 1
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.

Drehstiftdübel

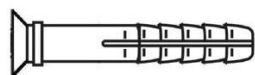
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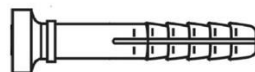
Plastic sleeve NHH 6



Plastic sleeve NH 6



Plastic sleeve NHZ 6



Specific nail

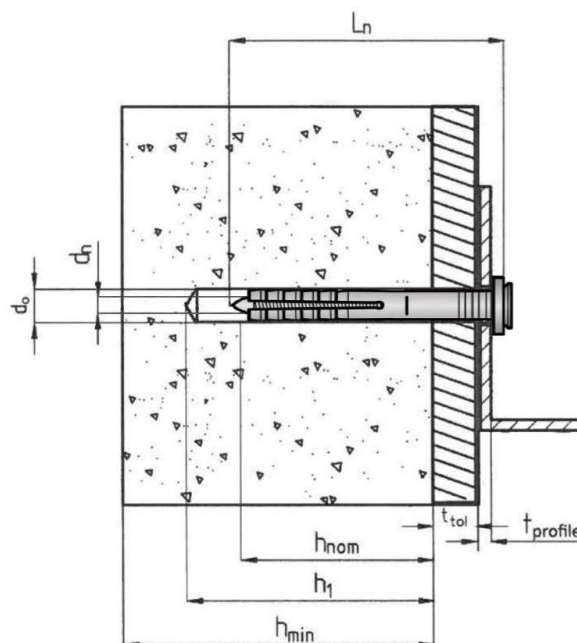
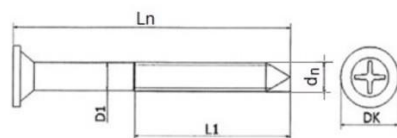


Table A1: Dimensions [mm]

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

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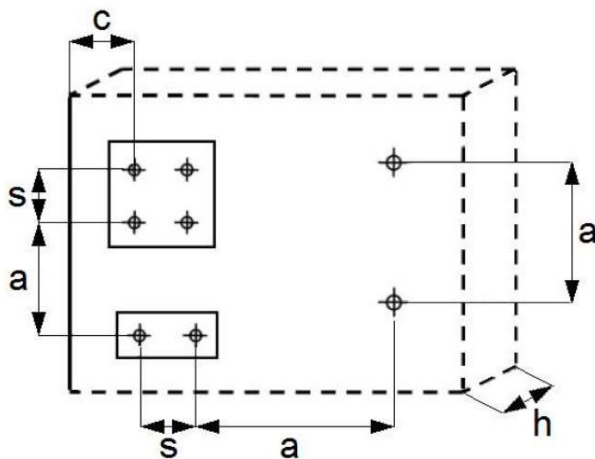
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Table B1: Installation parameters

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

Leistungserklärung

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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



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

Klagenfurt, 08.02.2023

Fridolin Michenthaler – Managing Director