

Universal Spreading Nail USN

Advantages



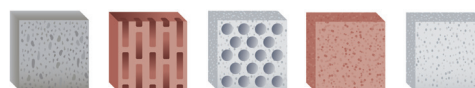
- Innovative fastening of wall connection profiles, metal sheets, base protection profiles, cornice covers, motion detectors, small lamps, signs, etc. without thermal bridge
- Suitable in almost all common building materials with good pull-out values
- The elastic V-shaped spring elements ensure a high spreading force
- Spreading nail made out of glass-fibre reinforced nylon with EPDM sealing; ageing, weather and UV-resistant
- Stylish head, different colours and different lengths
- Electrical contact protection through the use of plastics
- Easy disassembly by knocking off or drilling out the head
- For insulated walls use insulation screw IPS or insulation screw plug IPSD

Approvals and certificates



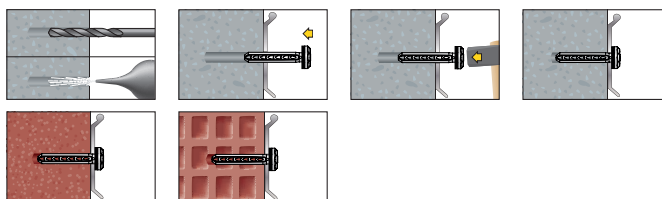
Suitable building materials

Very suitable



- Concrete
- Natural stone
- Solid brick
- Solid sand-lime brick
- Lightweight solid concrete blocks
- Aerated concrete (only AAC6)
- Hollow brick
- Hollow sand-lime brick
- Lightweight hollow concrete blocks

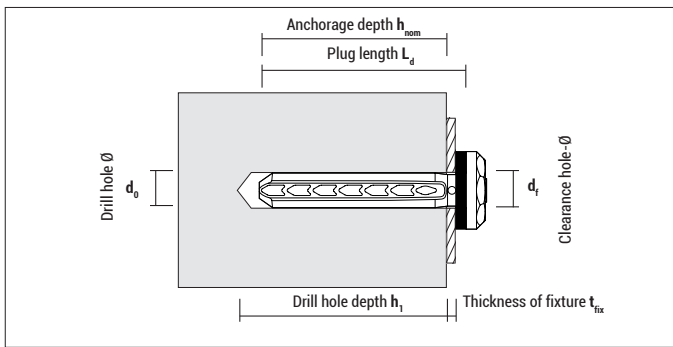
Mounting



The USN can be removed in two ways:

1. **Knock off the head** using a chisel or a screwdriver.
2. **Drill out the head** with a drill bit that it falls apart
(The USN has a small notch on the head which helps to guide a drill bit).

Universal Spreading Nail USN



USN 6-40

USN 40 with EPDM sealing, head $\varnothing = 15,0$ mm

Type	Art-No	RAL-Code	d_0 [mm]	L_d [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	$t_{fix} \leq$ [mm]	d_f [mm]	€/ 100 pcs	[pcs]	[pcs]
USN 40 Signal white	9140USN	RAL 9003	6	40	40	35	5	8 - 10		100	1.800
USN 40 Telegrey	9GR40USN	RAL 7045	6	40	40	35	5	8 - 10		100	1.800
USN 40 Anthracite grey	9AN40USN	RAL 7016	6	40	40	35	5	8 - 10		100	1.800
USN 40 Traffic black	9440USN	RAL 9017	6	40	40	35	5	8 - 10		100	1.800
USN 40 Copper brown	9CO40USN	RAL 8004	6	40	40	35	5	8 - 10		100	1.800
USN 40 Sepia brown	9M40USN	RAL 8014	6	40	40	35	5	8 - 10		100	1.800
USN 40 Chocolate brown	9MO40USN	RAL 8017	6	40	40	35	5	8 - 10		100	1.800



USN 6-60

USN 60 with EPDM sealing, head $\varnothing = 15,0$ mm

Type	Art-No	RAL-Code	d_0 [mm]	L_d [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	$t_{fix} \leq$ [mm]	d_f [mm]	€/ 100 pcs	[pcs]	[pcs]
USN 60 Signal white	9160USN	RAL 9003	6	60	40	35	25	8 - 10		75	1.350
USN 60 Telegrey	9GR60USN	RAL 7045	6	60	40	35	25	8 - 10		75	1.350
USN 60 Anthracite grey	9AN60USN	RAL 7016	6	60	40	35	25	8 - 10		75	1.350
USN 60 Traffic black	9460USN	RAL 9017	6	60	40	35	25	8 - 10		75	1.350
USN 60 Copper brown	9CO60USN	RAL 8004	6	60	40	35	25	8 - 10		75	1.350
USN 60 Sepia brown	9M60USN	RAL 8014	6	60	40	35	25	8 - 10		75	1.350
USN 60 Chocolate brown	9MO60USN	RAL 8017	6	60	40	35	25	8 - 10		75	1.350

Loads and dimensions F_{rec}

Type	h_{nom} [mm]	Concrete		Hollow brick HLz 12 ¹⁾		Poroton T10 ¹⁾		Poroton T8 ¹⁾		Aerated concrete AAC6 ¹⁾²⁾	
		F_{rec} [kN]	F_{eff} [kN]	F_{rec} [kN]	F_{eff} [kN]	F_{rec} [kN]	F_{eff} [kN]	F_{rec} [kN]	F_{eff} [kN]	F_{rec} [kN]	F_{eff} [kN]
USN 40	35	0,13	0,93	0,08	0,55	0,03	0,20	0,08	0,60	0,04	0,32
USN 60	55	0,15	1,09	0,08	0,55	0,04	0,30	0,08	0,60	0,06	0,38

F_{rec} : Recommended load in all directions incl. safety factor of 7

F_{eff} : Effective pull out loads excl. safety factor

¹⁾ Drill without impact

²⁾ Recommendation: drill with $\varnothing 5$ drill bit