

# SMART SLEEVE ANCHOR with screw

## Type S-HA



Sleeve anchor made of zinc plated steel, composed by a sleeve, expansion cone and a 8.8 grade screw with hexagon head.

### Product characteristics

- Push-through installation
- Smooth expansion thanks to the slots on the body and on the expansion conical nut
- High setting quickness through the object to be fixed
- High performances

### Base material

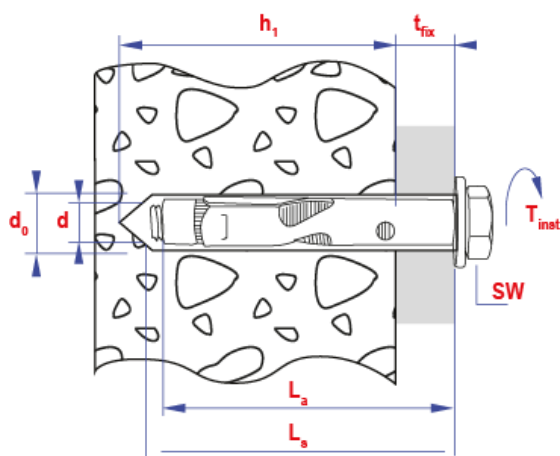


Concrete



Solid brick

### Installation scheme



Screw length calculation:

$$L_s = L_a + t_{fix}$$

$h_1$  = Min. hole depth

$L_a$  = Anchor length

$L_s$  = Screw length

$d_0$  = Hole diameter

$d$  = Screw diameter

$t_{fix}$  = Fixture thickness

$T_{inst}$  = Torque

SW = Spanner

**Technical info**

Art pgb	ds [mm]	Ls [mm]	La [mm]	d0 [mm]	h1 [mm]	tfix,max [mm]	Tinst [Nm]	SW [mm]
* SMHAS308045 Z	M 6	50	45	8	50	4	10	10
SMHAS308065 Z	M 6	70	65	8	50	24	10	10
SMHAS308100 Z	M 6	100	100	8	50	54	10	10
* SMHAS310050 Z	M 8	55	50	10	55	5	25	13
SMHAS310070 Z	M 8	75	70	10	55	25	25	13
SMHAS310100 Z	M 8	100	100	10	55	45	25	13
SMHAS310120 Z	M 8	120	120	10	55	65	25	13
* SMHAS312060 Z	M10	65	60	12	60	5	40	17
SMHAS312080 Z	M10	80	80	12	60	25	40	17
SMHAS312100 Z	M10	100	100	12	60	45	40	17
SMHAS312120 Z	M10	120	120	12	60	65	40	17
* SMHAS312130 Z	M10	130	130	12	60	75	40	17
SMHAS316090 Z	M12	90	90	16	85	10	65	19
SMHAS316110 Z	M12	110	110	16	85	30	65	19
SMHAS316130 Z	M12	130	130	16	85	50	65	19

\* Not included in ETA

SMART S-HAS			M 6	M 8	M10	M12
Critical spacing	Scr,N	[mm]	93	105	120	180
Critical edge distance	Ccr,N	[mm]	46,5	52,5	60	90
Minimum spacing	Smin	[mm]	95	120	145	175
Minimum edge distance	Cmin	[mm]	50	60	75	90
Minimum member thickness	hmin	[mm]	80	100	120	150
Max recommended tensile load (C20/25)	N	[kN]	2,8	3,5	5,7	9,5
Max recommended shear load (C20/25)	V	[kN]	4,2	6,8	11,4	17