



# HUS-2 Screw anchor



## Basic loading data (for a single anchor in permanent application)

### All data in this section applies to:

- Correct setting (See setting instruction)
- No edge distance and spacing influence
- Steel failure
- Minimum base material thickness
- Concrete C 20/25,  $f_{ck,cube} = 25 \text{ N/mm}^2$
- Adjustment allowed during the installation for size 8 and 10,  $h_{nom2}$  only.

### Effective anchorage depth for static loading

Anchor size		8		10	
Eff. Anchorage depth	$h_{ef}$ [mm]	50	65	55	75

### Recommended Loads: (1)

Anchor size		8		10	
<b>Non-cracked concrete</b>					
Tension $N_{Rd}$	HUS-2 [kN]	3,6	6,3	3,6	6,8
Shear $V_{Rd}$	HUS-2 [kN]	4,9	7,6	5,6	9,3
<b>Cracked concrete</b>					
Tension $N_{Rd}$	HUS-2 [kN]	1,6	3,6	2,4	5,4
Shear $V_{Rd}$	HUS-2 [kN]	3,5	7,6	4,0	9,3

(1) With overall partial safety factor for action = 1,4. The partial safety factors for action depend on the type of loading and shall be taken from national regulations.

### Basic loading data for temporary application in standard and fresh concrete < 28 days old, $f_{ck,cube} = 10 \text{ N/mm}^2$ :

- Strength class,  $f_{ck,cube} \geq 10 \text{ N/mm}^2$
- Only temporary use

### Recommended Loads: (1)

Anchor size		8		10	
Nominal embedment depth	HUS-2	50	65	55	75
Cracked and non-cracked concrete					
Tensile N = Shear V					
$f \geq 10 \text{ N/mm}^2$	[kN]	1,0	2,1	1,2	2,3
$f \geq 15 \text{ N/mm}^2$	[kN]	1,2	2,6	1,5	2,8
$f \geq 20 \text{ N/mm}^2$	[kN]	1,4	3,0	1,7	3,2