

Drop-in anchor IDA

Load table

Permissible loads for a single anchor¹⁾ for multiple use for non-structural applications in cracked and non-cracked concrete C20/25 up to C50/60.
For the design the complete current assessment ETA-26/0294 has to be considered.

Type	Material / surface ²⁾	Screw Material	Effective anchor- age depth h_{ef} [mm]	Minimum member thickness h_{min} [mm]	Maximum installation- torque $T_{inst,max}$ [Nm]	Permissible load (F_{perm}), minimum spacing (s_{min}) and edge distances (c_{min})		
						$F_{perm}^{3)}$ [kN]	s_{min} [mm]	c_{min} [mm]
IDA M6x25	zp	5.8	25	100	4	0,8	120	90
	R	A4-70	25	100	4	0,8	120	90
IDA M8x30	zp	5.8	30	100	8	0,8	90	120
	R	A4-70	30	100	8	0,8	90	120
IDA M8x40	zp	5.8	40	100	15	0,5	120	80
	R	A4-70	40	100	15	0,5	120	80
IDA M10x30	zp	5.8	30	120	15	1	150	90
	R	A4-70	30	120	15	1	150	90
IDA M10x40	zp	5.8	40	120	15	1,4	120	140
	R	A4-70	40	120	15	1,4	120	140
IDA M12x50	zp	5.8	50	140	35	1,7	150	175
	R	A4-70	50	140	35	1,7	150	175
IDA M16x65	zp	5.8	65	160	60	2,9	200	120
	R	A4-70	65	160	60	2,9	200	120

¹⁾ Design according to EN 1992-4:2018 (for static resp. quasi-static loads). The partial safety factors for material resistance as regulated in the ETA as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered. As a single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1.5 \times h_{ef}$. Accurate data see ETA.

²⁾ Further steel grades, versions and technical data see ETA.

³⁾ Valid for tensile load, shear load and oblique load under any angle. In the case of combinations of tensile, shear loads and bending moments, the design must be carried out in accordance with the provisions of the complete ETA and the provisions of the EN 1992-4:2018.

Load table

Permissible loads of a single anchor¹⁾ in non-cracked concrete of strength class C20/25
For the design the complete current assessment ETA-26/0295 has to be considered.

Type	Material / surface ²⁾	Screw Material	Effective anchor- age depth $h_{ef,min}$ [mm]	Minimum member thickness h_{min} [mm]	Maximum installa- tion torque $T_{inst,max}$ [Nm]	Permissible Tension (N_{perm}), Shear loads (V_{perm}), minimum spacing (s_{min}) and edge distances (c_{min})			
						$N_{perm}^{3)}$ [kN]	$V_{perm}^{3)}$ [kN]	$s_{min}^{3)}$ [mm]	$c_{min}^{3)}$ [mm]
IDA M6x25	zp	5.8	25	100	4	2,2	1,2	120	90
	R	A4-70	25	100	4	2,1	1,2	120	90
IDA M8x30	zp	5.8	30	100	8	1,7	2,6	90	120
	R	A4-70	30	100	8	1,7	2,6	90	120
IDA M8x40	zp	5.8	40	100	15	2,2	2,6	120	80
	R	A4-70	40	100	15	2,2	2,6	120	80
IDA M10x30	zp	5.8	30	120	15	3,6	3,1	150	90
	R	A4-70	30	120	15	3,6	3,1	150	90
IDA M10x40	zp	5.8	40	120	15	3,4	3,3	120	140
	R	A4-70	40	120	15	3,4	3,3	120	140
IDA M12x50	zp	5.8	50	140	35	5,0	3,6	150	175
	R	A4-70	50	140	35	5,0	3,6	150	175
IDA M16x65	zp	5.8	65	160	60	5,7	8,6	200	120
	R	A4-70	65	160	60	5,7	8,6	200	120

¹⁾ Design according to EN 1992-4:2018 (for static resp. quasi-static loads). The partial safety factors for material resistance as regulated in the ETA as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered. As a single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1.5 \times h_{ef}$. Accurate data see ETA.

²⁾ Further steel grades, versions and technical data see ETA.

³⁾ In the case of combinations of tensile and shear loads, bending moments and reduced edge and axial spacings (anchor groups), the design must be carried out in accordance with the provisions of the complete ETA and the provisions of the EN 1992-4:2018. We recommend to use our anchor design software DesignFix.