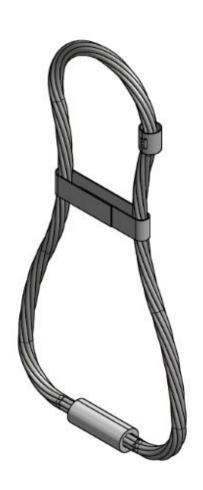


COMMERCIAL DOCUMENTATION



1D - LIFTING SYSTEMS | TIL - CAST-IN LIFTING LOOPS



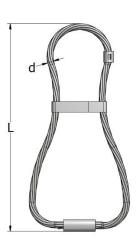


CAST-IN LIFTING LOOPS - TIL

Cast-in lifting loops are the most economical lifting system. They require relatively large edge distances. Take the exposure of steel wire loops after the installation of the concrete unit into consideration. Once the unit is set in the final position, protruding loops can be cut off, if necessary, but the cut ends must be protected against corrosion to prevent staining from rust. The steel wire rope is more suitable for forming a cast-in loop because it is flexible, and the lifting loop made from reinforcing bar is liable to fatigue, especially if bent during angled lift. The minimum dimensions for installation in reinforced concrete are indicated in the table below. Additional lateral reinforcement may be required for acute angled lifts. Cast-in lifting loops are made of a high-grade steel wire rope according to EN 12385-4, swaged in a ferrule made of AlMg1.8, with a fixing strip in the middle with an identification label, which must not slide down the hoop during casting and should remain visible. Each lifting loop has a label attached, marked with the admissible load and the code number of the testing. Cast-in lifting loops are zinc-plated for protection against corrosion. These lifting systems are suitable for use through a single cycle from production to final installation. They are not suitable for multiple use applications. To choose the correct size for any lift, it is important to consider the angle of lift, the crane factor and the adhesion to the formwork.

Cast-in lifting loops must be installed in the direction of the expected load. They should be suspended from supports attached to the formwork so that 2/3 of the loop will be cast in and 1/3 will remain exposed. The loops must be fastened to the reinforcement cage to avoid movement during concreting. Avoid bending the steel wire rope while the precast unit is in storage. Exposed loops can be attached to standard crane hooks, but the curvature radius of the crane hook should at least be equal to the diameter of the wire rope. It is essential to check that the wire rope is in good condition, with no broken, crushed or unravelled wire. Also, do not use if there are kinks in the loop or the wire rope is badly corroded - discard in accordance with EN 13414-1! Cast-in lifting loops with any signs of damage should not be used.





TIL	Product no.	Overall length Wire rope dimensions		dimensions	Load group
		L	d	L	f _{cu} > 30 MPa
		[mm]	[mm]	[mm]	[t]
TIL-008-210	44812	210	6	540	0.8
TIL-012-225	44813	225	7	570	1.2
TIL-016-235	44814	235	8	615	1.6
TIL-020-275	44815	275	9	690	2.0
TIL-025-315	44816	315	10	780	2.5
TIL-040-340	44817	340	12	860	4.0
TIL-052-360	43599	360	14	1010	5.2
TIL-063-390	43600	390	16	1100	6.3
TIL-080-440	43601	440	18	1250	8.0
TIL-100-525	44818	525	20	1350	10.0
TIL-125-570	43602	570	22	1500	12.5
TIL-160-615	44819	615	26	1650	16.0
TIL-200-730	44820	730	28	1900	20.0
TIL-250-800	44821	800	32	2000	25.0
TIL-320-770	46961	770	36	2225	32.0
TIL-370-950	46962	950	36	2500	37.0
TIL-470-1100	46963	1100	44	3000	47.0
TIL-520-1200	47324	1200	44	3350	52.0



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