

DEHA SOCKET ANCHOR SYSTEM

Further HALFEN Products

DEHA 6325 Lifting loops

The DEHA 6325 Lifting loops are used to lift precast reinforced concrete elements.



The lifting loops are identified with a colour label marked with the name of the manufacturer, year of production and load group information.

The lifting loops are always installed in the open top surface of the precast element. A longitudinal or lateral orientation is possible. The minimal element thickness (b and $2 \times e_r$) must be observed.

The loop-end with the ferrule is positioned in the formwork. The embed depths t and u must be observed. The identification label on the lifting loop must remain visible after casting the concrete.

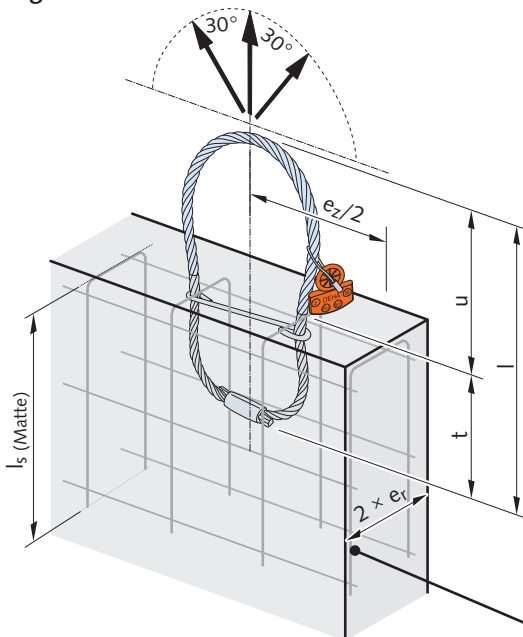
Crane hooks can be connected directly to the protruding lifting loops. Make sure that the cable loops are not subjected to bending when storing the precast elements.

The product information describing the installation of DEHA Lifting loops must be kept available in the precast plant and on the construction site. Observe the regulations for hoisting and lifting equipment according to DIN EN 13414 and the VDI BV-BS 6205 guidelines.

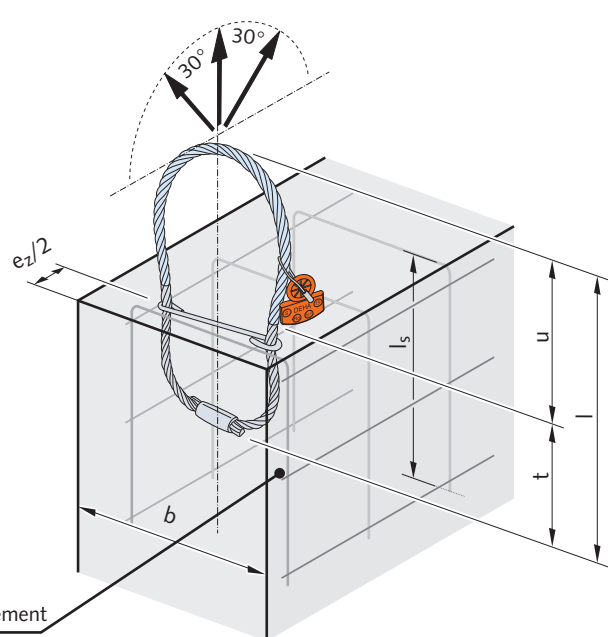
Dimensions and edge distances

Load class	Colour code	Article-name	Order no. 0742.110-	Cable-Ø [mm]	l [mm]	t [mm]	u [mm]	b_{min} [mm]	$2 \times e_{r, min}$ [mm]	e_z [mm]
0,8	yellow	6325-0,8	00001	6	205	145	60	120	70	270
1,2	white	6325-1,2	00002	7	230	165	65	140	80	310
1,6	black	6325-1,6	00003	8	250	180	70	150	90	350
2,0	light green	6325-2,0	00004	9	300	220	80	160	100	420
2,5	light blue	6325-2,5	00005	10	325	235	90	180	110	450
4,0	lilac	6325-4,0	00006	12	370	270	100	200	120	500
6,3	yellow	6325-6,3	00007	16	425	315	110	230	140	580
8,0	light brown	6325-8,0	00008	18	480	370	110	250	160	650
10,0	orange	6325-10,0	00009	20	525	405	130	280	180	730
12,5	dark grey	6325-12,5	00010	22	590	450	140	300	200	810
16,0	violet	6325-16,0	00011	24	670	510	160	350	240	390
20,0	brown	6325-20,0	00012	28	750	580	170	380	260	1060
25,0	green	6325-25,0	00013	32	850	660	190	400	280	1210

Longitudinal installation



Transverse installation



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DEHA Lifting loop 6325 – load capacities

Load capacities – Longitudinal installation											
Load class	Colour code	Article-name	Reinforcement		Dimensions with concrete compression strength $f_{ci} = 15 \text{ N/mm}^2$		Load capacity [kN]	Dimensions with concrete compression strength $f_{ci} = 35 \text{ N/mm}^2$		Load capacity [kN]	
			Mesh bent [mm ² /m]	l_s [mm]	$2 \times e_r$ [mm]	$e_z/2$ [mm]		$2 \times e_r$ [mm]	$e_z/2$ [mm]		
0,8	yellow	6325-0,8	131	300	70	270	8.0	50	270	8.0	
1,2	white	6325-1,2	131	350	90	310	12.0	60	310	12.0	
1,6	black	6325-1,6	131	350	120	350	16.0	80	350	16.0	
2,0	light green	6325-2,0	188	450	140	420	20.0	100	420	20.0	
2,5	light blue	6325-2,5	188	500	160	450	25.0	110	450	25.0	
4,0	lilac	6325-4,0	188	550	220	500	40.0	150	500	40.0	
6,3	yellow	6325-6,3	188	600	320	580	63.0	220	580	63.0	
8,0	light brown	6325-8,0	188	700	400	650	80.0	280	650	80.0	
10,0	orange	6325-10,0	221	800	440	730	100.0	310	730	100.0	
12,5	dark grey	6325-12,5	221	900	560	810	125.0	390	810	125.0	
16,0	violet	6325-16,0	221	1000	620	930	160.0	430	930	160.0	
20,0	dark grey	6325-20,0	377	1115	680	1060	200.0	480	1060	200.0	
25,0	green	6325-25,0	377	1300	750	1210	250.0	530	1210	250.0	

l_s = Leg length of the bent reinforcement mesh mat f_{ci} = Concrete cube strength at time of lifting

Load capacities – Transverse installation											
Load class	Colour code	Article-name	Reinforcement		Dimensions with concrete compression strength $f_{ci} = 15 \text{ N/mm}^2$		Load capacity [kN]	Dimensions with concrete compression strength $f_{ci} = 35 \text{ N/mm}^2$		Load capacity [kN]	
			Mesh bent [mm ² /m]	l_s [mm]	b [mm]	$e_z/2$ [mm]		b [mm]	$e_z/2$ [mm]		
0,8	yellow	6325-0,8	131	300	135	270	8.0	135	270	8.0	
1,2	white	6325-1,2	131	350	140	310	12.0	140	310	12.0	
1,6	black	6325-1,6	131	350	170	350	16.0	170	350	16.0	
2,0	light green	6325-2,0	188	450	175	420	20.0	175	420	20.0	
2,5	light blue	6325-2,5	188	500	180	450	25.0	180	450	25.0	
4,0	lilac	6325-4,0	188	550	220	500	40.0	220	500	40.0	
6,3	yellow	6325-6,3	188	600	320	580	63.0	275	580	63.0	
8,0	light brown	6325-8,0	188	700	400	650	80.0	280	650	80.0	
10,0	orange	6325-10,0	221	800	440	730	100.0	310	730	100.0	
12,5	dark grey	6325-12,5	221	900	560	810	125.0	390	810	125.0	
16,0	violet	6325-16,0	221	1000	620	930	160.0	430	930	160.0	
20,0	brown	6325-20,0	377	1115	680	1060	200.0	480	1060	200.0	
25,0	green	6325-25,0	377	1300	750	1210	250.0	530	1210	250.0	

l_s = Leg length of the bent reinforcement mesh mat f_{ci} = Concrete cube strength at time of lifting



Lifting loops showing signs of damage; broken strands, kinking, bird-caging or any signs of corrosion that require discarding in accordance with DIN EN 13414, are not to be used for further lifting.



Note: When using shackles to lift, the diameter of the shackles must under no circumstances be less than double the cable diameter of the lifting loop. We recommend using shackles with a diameter five times the diameter of the lifting loop cable.