

# DEHA 6325 LIFTING LOOP PRODUCT INFORMATION



The DEHA 6325 Lifting loop is used for the transport of precast concrete elements.



Lifting loops have a coloured identification tag. This indicates the manufacturer, the year of manufacture and the load group.

Ropes and slings are manufactured according to EN 12385 part 1-4.

The lifting loop is positioned longitudinal or transversally in the accessible side of the precast element formwork. A minimum element thickness ( $b$  resp.  $2 \times e_r$ ) has to be ensured.

The loop end with the ferrule is placed inside the formwork, ensuring the installation dimensions  $t$  and  $\ddot{u}$  are observed. The lifting loop identification tag must always remain completely

visible outside the concrete.

Crane hooks can be attached directly to the protruding half of the lifting loop.

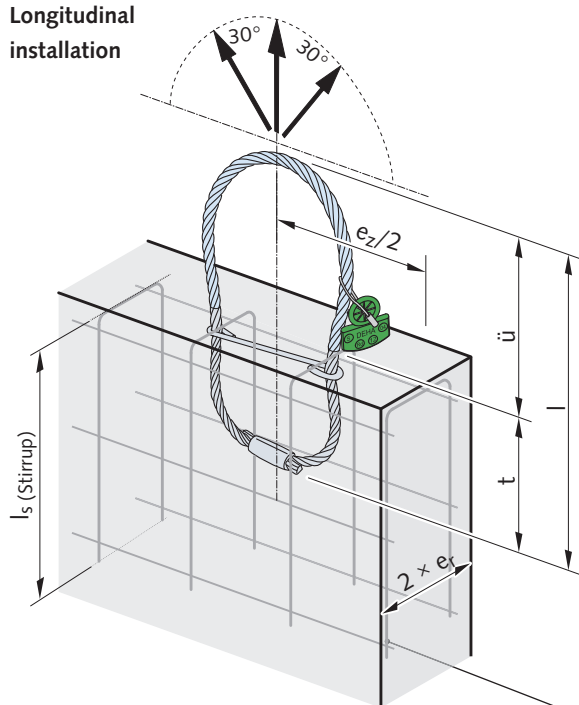
Care has to be taken to ensure that loops are not damaged when storing precast elements. This DEHA Lifting loop product information must be kept available at the place of use. The "VDI Guidelines VDI BV-BS6205"<sup>①</sup> has to be observed.

① VDI=Association of German Engineers

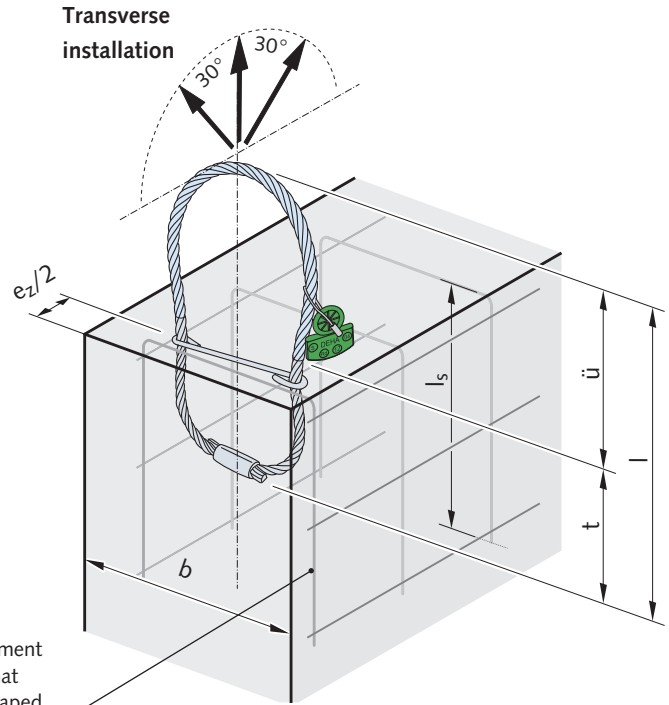
Dimensions and edge distances

Load range	Colour coding	Designation	Art. no. 0742.110-	Rope diam. [mm]	l [mm]	t [mm]	$\ddot{u}$ [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



# DEHA AS LIFTING LOOP

## Load capacities

Load capacity in longitudinal installation											
Load range	Colour coding	Designation	Reinforcement		Dimensions for concrete strength $f_{ci} = 15 \text{ N/mm}^2$		Load capacity [kN]	Dimensions for concrete strength $f_{ci} = 35 \text{ N/mm}^2$		Load capacity [kN]	
			mat (bent) [mm <sup>2</sup> /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	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	

$l_s$  = side length of (bent) mat reinforcement     $f_{ci}$  = cube concrete strength at time of lifting

Load capacity in transverse installation											
Load range	Colour coding	Designation	Reinforcement		Dimensions for concrete strength $f_{ci} = 15 \text{ N/mm}^2$		Load capacity [kN]	Dimensions for concrete strength $f_{ci} = 35 \text{ N/mm}^2$		Load capacity [kN]	
			mat (bent) [mm <sup>2</sup> /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	

$l_s$  = side length of (bent) mat reinforcement     $f_{ci}$  = cube concrete strength at time of lifting

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**!** According to Industrial Standard ISO 4309, lifting loops displaying any of the following should be decommissioned; visible broken strands, kinking, bulging i.e. bird caging or heavy corrosion.

**!** **Note:** When using shackles ensure that the shackle diameter is at least twice the diameter of the DEHA Lifting loop cable diameter. We recommend a shackle diameter 5-times thicker than the cable diameter.

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