

PLAKA – LIFTING LOOP
Lifting anchor for concrete elements

REF 06.06.10 - Version V01 – 13/01/2021

**Description**

LIFTING LOOPS are lifting anchors for precast concrete units whose connection side will later no longer be visible (including prefabricated bases, joists and supporting walls).

LIFTING LOOP have a minimum safety factor of four against minimum breaking force of the wire rope.

The Anchor System comprises the actual lifting loop, the formwork accessories and the corresponding lifting device, the Lifting Hook.

Application fields

The LIFTING LOOP are suitable for compact solid units as well as, for example, slim pretensioned girder. The concrete units can be safely lifted in the precast factory, during transport and the final assembly. According to the Safety Regulations for Lifting Anchors and Lifting Anchor Systems for Precast Concrete Units they are not suitable for regularly recurring attachment procedures, for example crane counter weights.

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Properties and dimensions

Mechanical properties and dimensions				
Code	Type (Kg)	R (kN)	p/Box	Kg/1
PF050200082	800	8	1	0,08
PF050200122	1200	12	1	0,12
PF050200162	1600	16	1	0,17
PF050200202	2000	20	1	0,27
PF050200252	2500	25	1	0,30
PF050200402	4000	40	1	0,50
PF050200522	5200	52	1	0,85
PF050200632	6300	63	1	1,10
PF050200802	8000	80	1	1,60
PF050201002	10000	100	1	2,10
PF050201252	12500	125	1	3,00
PF050201602	16000	160	1	4,70
PF050202002	20000	200	1	5,90
PF050202502	25000	250	1	8,40
PF050202802	28000	280	1	10,50
PF050203202	32000	320	1	12,50
PF050203702	37000	370	1	15,80
PF050204202	42000	420	1	18,60
PF050204702	47000	470	1	22,00
PF050205202	52000	520	1	25,50
PF050205702	57000	570	1	30,75
PF050206502	65000	650	1	36,01

The ropes used have a special design and the required quantity of individual wires according to DIN 3088, in order to ensure the necessary flexibility. There are 114 individual wires, 200 individual wires in a rope diameter of 14 mm and above. The nominal wire strength amounts to 1770 N/mm². The Lifting Loops are dimensioned in such a way that from the load capacity to the minimum breaking force of the rope, there is a safety margin of 4. This has been proven under the supervision of a panel of experts on the subject of iron and metal at the employer 'liability insurance association by means of tensile tests. The ferrules are in accordance with DIN 3093.



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Accessories

Material dimensions					
Picture	Code	Type Kg	R (kN)	p/Box	Kg/1
 HOOK	PF05055020	2000	20	1	0,90
	PF05055040	4000	40	1	1,80
	PF05055063	6300	63	1	3,20
	PF05055100	10000	100	1	6,40
	PF05055160	16000	160	1	11,00
	PF05055250	25000	250	1	23,00
 MOULDING INSERT	PF05207020	2000	20	1	0,20
	PF05207040	4000	40	1	0,30
	PF05207063	6300	63	1	0,50
	PF05207100	10000	100	1	0,80
	PF05207160	16000	160	1	1,20
	PF05207250	25000	250	1	2,50

Storage

Precast concrete units with projecting Lifting Loops are to be stored in such a way that the cable loops do not get bent. The steel wire rope on the Lifting Loops have only a limited resistance to corrosion and should not therefore be stored in the open air for an unlimited period of time.

Corrosion

To avoid corrosion and in consequence local lateral blow out at concrete panels we cannot recommend to use Lifting Loop with a ferrule near to the surface of the panels, especially if the concrete is permanent or temporarily moist. Near to the surface means up to a depth of 2 times the concrete cover on the reinforcement. Especially if chlorides are in the concrete Lifting Loops should not be positioned near to the surface. The content of chloride in the concrete should not exceed the limits mentioned