Threaded Lifting loop

Introduction

Threaded Lifting loops can be used with all sizes of threaded inserts. They are the most economic lifting loop and are suitable for most applications, particularly site operations. They are not suitable for turning / pitching. They may be reused subject to the inspection procedure, detailed below, but they are not recommended for severe re-use conditions.

Threaded Lifting loops should only be attached to the unit after the concrete strength has reached 15 N / mm². In some cases it may be economic and practical to leave the loops with the unit until final installation.

Description

Threaded Lifting loops are manufactured from high grade steel wire, swaged in a steel ferrule and finished with zinc plating. They are clearly marked with their SWL. The thread type is Rd / M, which is compatible with both metric and Rd inserts.

Threaded Lifting loops are suitable for use with inserts cast in flush with the face of the unit, or recessed using the recess formers shown opposite.

Testing/identification

All Halfen devices are proof loaded before dispatch and labelled with a unique code number. This number is recorded in the QA department at Halfen Ltd. If loops are kept in the stores and reused they must be inspected every six months and retested every year.

Method of use

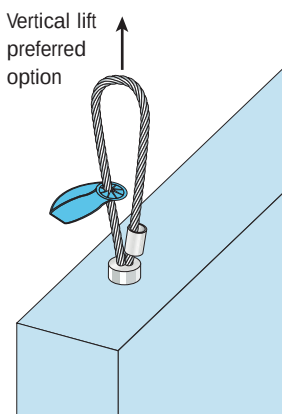
Before use, check that the lifting loop is compatible with the socket / insert and labelled with the Halfen unique number.

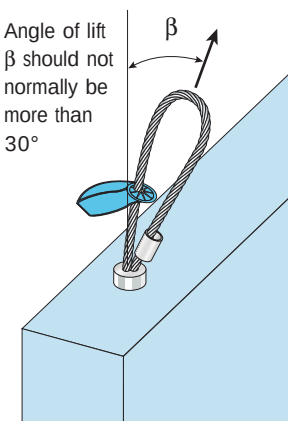
Check that the wires are in good condition. Discard if bent, crushed, kinked or if there is any loosening of the outer layer. Discard if corroded.

Check the angle of lift shown on the unit drawings and follow the procedure shown. Do not use Threaded Lifting loops for turning / pitching a unit. If β exceeds 45°, please consult Halfen Ltd.

Ensure that the thread is fully bottomed out in the socket before lifting. It is permissible to back off one turn to ensure that the wire is correctly aligned for lifting.

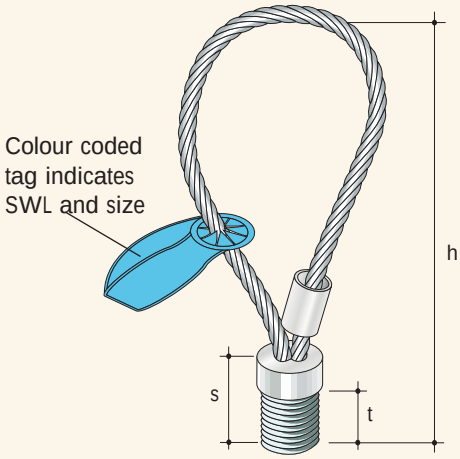
Applications



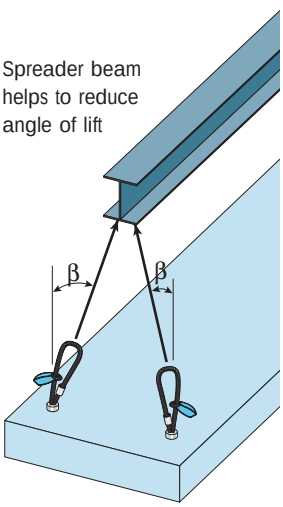


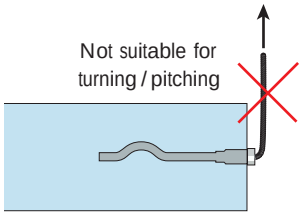
Size and availability

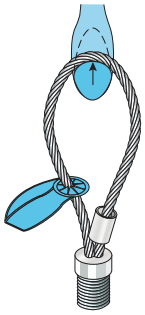
Threaded lifting loop – Code **PX**



Size	Order code	Full SWL kg	Dimensions t	h	s	Colour code
Rd / M12	**PX12**	500	22	155	27	Orange
Rd / M16	**PX16**	1200	27	155	36	Red
Rd / M20	**PX20**	2000	35	215	45	Light green
Rd / M24	**PX24**	2500	44	255	54	Charcoal
Rd / M30	**PX30**	4000	55	300	68	Dark green
Rd / M36	**PX36**	6300	68	360	81	Blue
Rd / M42	**PX42**	8000	75	425	95	Grey
Rd / M52	**PX52**	12,500	95	480	117	Yellow







Check that the radius of the hook is at least the diameter of the rope

Swivel Lifting Eye

Introduction

Swivel Lifting Eyes can be used with all sizes of threaded inserts and are specially designed to allow angled lifts, such as turning / pitching. They are more durable than wire lifting loops and may be used repeatedly, subject to inspection for damage.

They should only be attached to the unit after the concrete strength has reached 15 N / mm². They are usually unscrewed from the unit after each lifting operation.

Description

Swivel Lifting Eyes are manufactured from high grade steel in the sizes shown in the table. They have a paint finish, which is colour coded to clearly identify the SWL. The thread size is Rd / M, which is compatible with both metric and Rd inserts.

Swivel Lifting Eyes are suitable for use with threaded inserts cast in flush with the face of the unit, or recessed using the metal recess formers shown opposite. Ordinary plastic nailing plates are not suitable. If plastic nailing plates have been used in error, please consult Halfen Ltd.

The design incorporates a vacuum sealed bearing unit, which prevents the ingress of grit and dirt, providing smooth rotation and increased life expectancy. The design ensures that as the chains take the load the eye rotates and aligns itself correctly.

The oval 'eye' incorporates a slot which can be located onto one of the three vertical pins on the base section of the lifting eye, so that the ring can be used to tighten or loosen the thread of the lifting eye in the insert.

Testing/identification

All Halfen devices are proof loaded before dispatch and labelled with a unique code number. This number is recorded in the QA department at Halfen Ltd.

Method of use

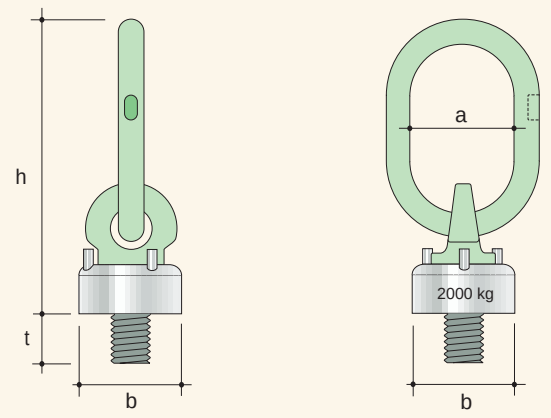
Before use, check that the lifting eye is compatible with the socket and labelled with the Halfen unique number.

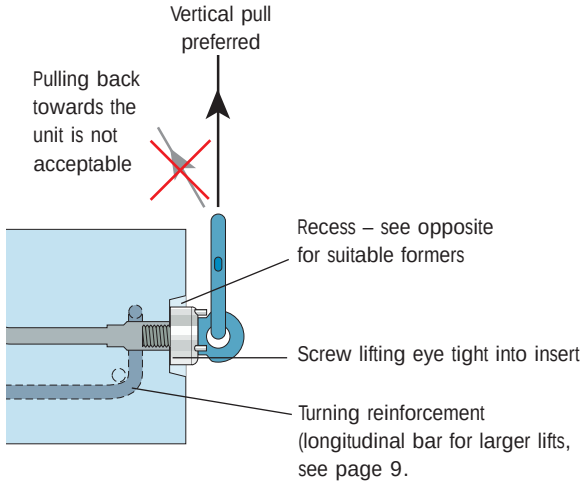
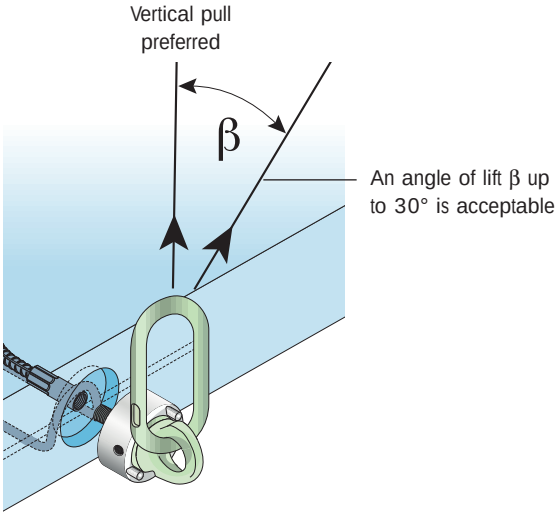
Check that the swivel is free running and in good condition. Check the angle of lift shown on the unit drawings and follow the procedure shown.

Ensure that the thread is fully bottomed out in the socket before lifting.

Size and availability

Swivel Lifting Eye – Code **PW**



Size	Order code	Full SWL kg	Dimensions a	b	t	h	Colour code
Rd / M12	**PWM12**	500	35	47	16	125	Orange
Rd / M16	**PWM16**	1200	35	58	21	151	Red
Rd / M20	**PWM20**	2000	60	70	26	158	Light green
Rd / M24	**PWM24**	2500	75	74	31	187	Black
Rd / M30	**PWM30**	4000	90	90	39	219	Dark green
Rd / M36	**PWM36**	6300	100	101	47	255	Blue
Rd / M42	**PWM42**	8000	100	110	55	256	Grey
Rd / M52	**PWM52**	12,500	140	130	68	344	Yellow

Application examples – showing turning/pitching