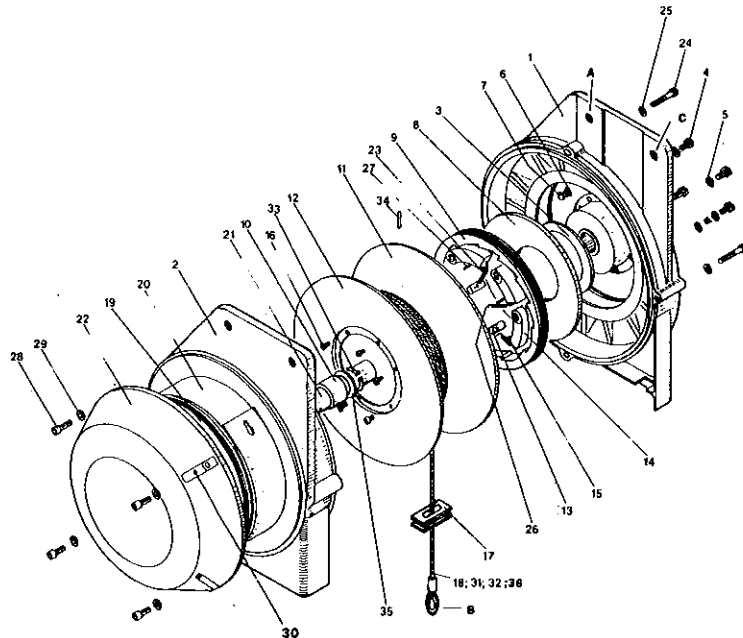


THIS IS THE FUNCTION OF A SALA LOAD ARRESTOR

The load arrestor, connected to a load, will stop a fall should it occur. The load arrestor will not only protect equipment attached to it, but also people and other items under the suspended equipment.

FUNCTION: see drawing below.

The load arrestor is attached to a structure via the bolt holes (A). Equipment to be protected is to be attached to the wire rope (B). The wire rope is kept under tension and is automatically rewound on the wire rope drum (11). A drum spring (20) will keep the wire rope under tension. If a fall occurs, a ratchet pawl (14) will engage with a ratchet ring (9), when the wire speed exceeds 0.5 m/sec. The ratchet ring is then screwed into the cover (1) and compresses the brake disc (8) until all energy has been absorbed and the equipment safely held, undamaged by the wire rope. The brake disc (8) also pushes the indication pin (7) through the cover (1). The indication pin protruding by a few millimetres. This indicating that the load arrestor should immediately be removed, serviced, and have the brake reset.



No	Description	Qty	Part. nr	No	Description	Qty	Part. nr
1	Housing	1	47140	19	Spring protection	1	11076
2	Housing	1	47141	20	Drum spring	1	47158
3	Washer	1	47142	21	Shaft	1	47171
4	Screw	6	47172	22	Spring housing	1	47159
5	Washer	6	50403	23	Split pin	6	46018
6	Spring	1	46019	24	Screw	4	50308
7	Indication pin	1	47164	25	Washer	4	50403
8	Brake disc	1	47146	26	Split pin	6	47166
9	Ratchet ring	4	47147	27	Licking pin	6	50460
10	Bushing	2	47148	28	Screw	4	50220
11	Rope drum	1	47149	29	Washer	4	50410
12	Cover for rope drum	1	47170	30	Screw	1	50126
13	Stud for ratchet pawl	6	47151	31	Steel wire rope fzv LA 800	1	47136
14	Ratchet pawl	6	47152	32	Steel wire rope fzv LA 1000	1	47156
15	Spring for ratchet pawl	6	47153	33	Locking ring	1	47167
16	Screw	6	50103	34	Locking pin	1	50465
17	Bushing for steel rope	1	47118	35	Washer	1	47169
18	Steel wire rope fzv LA 500	1	47131	36	Steel wire rope fzv	1	47308

INSTALLATION- AND INSPECTION MANUAL

FOR
LOAD ARRESTOR
 LA 500-20
 LA 1000-10P
 LA 800-17
 LA 1600-8,5P
 LA 1000-12
 LA 2000-6P
 LA 1500-5
 LA 3000-2,5P

INSTALLATION

Attach the Load Arrestor by bolting 16 mm nuts and bolts through holes A and C.

The wire rope is connected to the load by using the following sizes of nuts and bolts:

- 16 mm for LA 1500-20, LA 1000-10P
- 20 mm for LA 800-17, LA 1600-8,5P
- 24 mm for LA 1000-20, LA 2000-6P
- 16 mm for LA 1500-5, LA 3000-2,5P

The attachment point should be made with two parallel flanges of 118 mm distance.

When properly installed -
PULL OUT THE WIRE ROPE AND LET IT SLOWLY RETRACT.

Anchoring points should be calculated for a minimum breaking strength corresponding to the wire rope used.

TABLE 1

LA 500-20	min	31.0 kN
LA 800-17	min	40.5 kN
LA 1000-12	min	51.0 kN
LA 1500-5	min	78.0 kN

Ensure that the load is in line with attachment hole A. If the Load Arrestor is to be installed where the load is not held vertically during hoisting or lowering, this should be discussed with your Sala representative before installation.

When the wire rope is pulled out, the last part is painted red.

THE RED PART SHOULD NEVER BE PULLED OUT OF THE LOAD ARRESTOR.

When installing outdoor, please call the Sala representative for discussion about protecting the unit from icing, by example the use of a heating hood.

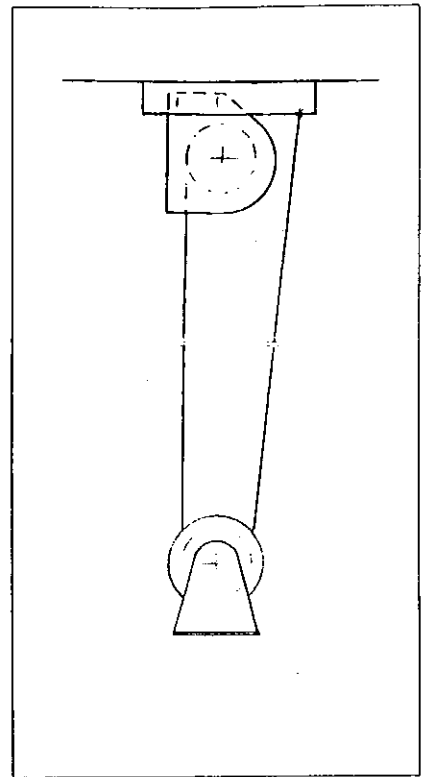
The load arrestor can be combined with a pulley and can if properly installed, protect twice the nominal load but with half wire length capacity.

The load arrestor must for this application be ordered complete with pulley and modified ratchet pawl springs to maintain engagement speed of 0.5m/s. The wire rope should move in the same direction on both the wire drum and the external pulley.▶

The anchor points must for this application be calculated as follows:

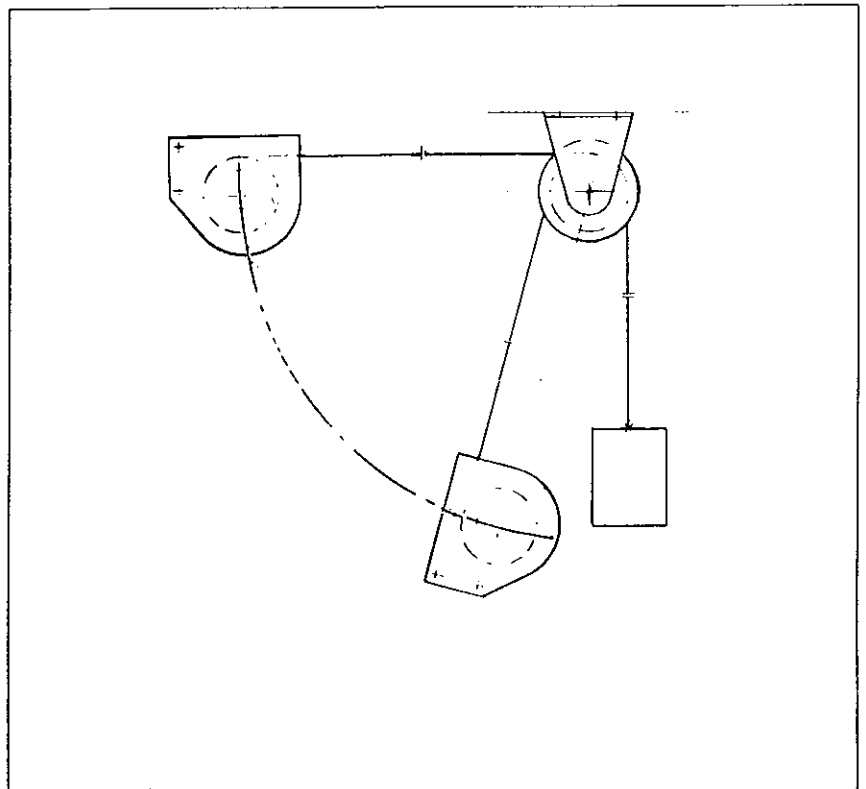
TABLE 2

LA 1000-10P	min 31.0 kN x 2 = 62.0 kN
LA 1600-8,5P	min 40.5 kN x 2 = 81.0 kN
LA 2000-6P	min 51.0 kN x 2 = 102.0 kN
LA 3000-2,5P	min 78.0 kN x 2 = 156.0kN



The Load Arrestor can be used in cramped conditions by using a pulley as shown below. The LoadArrestor must under all circumstances be installed so the wire drum is working vertically.

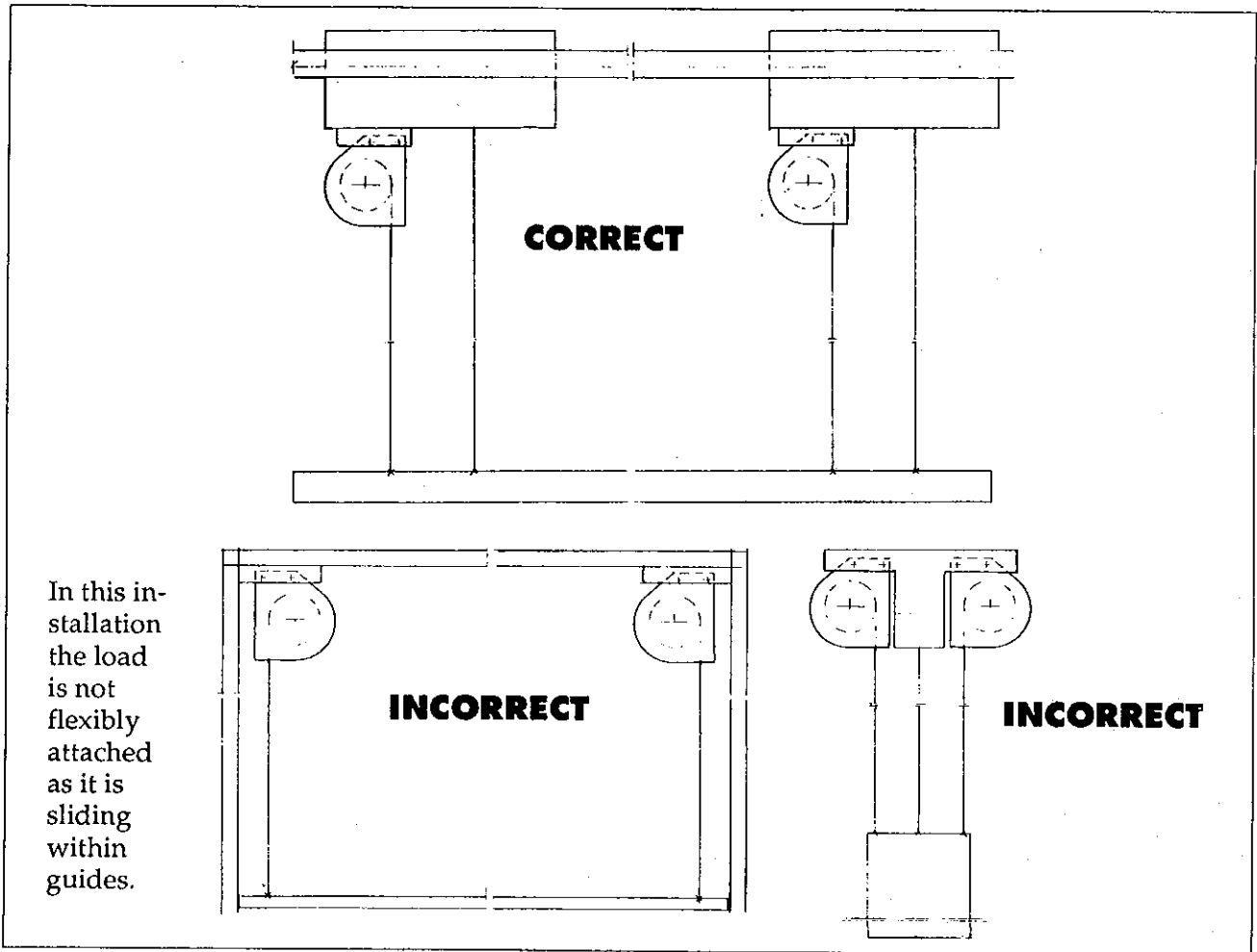
For this application the anchorage point for the external pulley must be calculated according to table 2 ▼



A load can under special circumstances be secured by two load arrestors. PLEASE CONTACT SALA REPRESENTATIVE BEFORE MODIFYING INSTALLATION PROCEDURE.

As the ratchet pawls will not engage simultaneously in two load arrestors, it is vital that the Load Arrestor are installed at a sufficient distance apart with unre-

stricted vertical movement under each unit to enable the falling force to be properly divided between them.



INSPECTION

- Check the break mechanism by pulling the wire rope
- Pull out the entire wire rope to check for damages. If a thread is broken, replace the wire. Let the wire rope retract carefully. The Load Arrestor can be damaged if the wire rope is allowed to retract without resistance
- Check the red indicator pin. If it protrudes remove the load arrestor from service, check and service the unit and reset the break.

SERVICE

Service must always be undertaken by an authorized service depot or by authorized personnel. Test certificate/reports to be issued.

INSPECTION - INTERVAL OF SERVICE

Inspection to be done annually, ev. more often dependent on environmental conditions.

SERVICE MUST BE DONE:

- After a fall
- Thread breakages in wire rope
- When corrosion or heavy dirt penetration is suspected, thus not more than two years interval.

DIMENSION DRAWING

