

Box-Tracks

1. Mount the track in parallel to the runway of equipment, the side clearance to be sufficient to avoid interference with swinging cable carriers/cables.

2. Support track with hangers.

Support spacing see diagram page 47.

Support spacing K 1, K 1 W max. 1 m

Support spacing in curves:

S 1 A, S 1, S 1-E max. 1 m
 S 2, S 2-E max. 1,25 m
 K 1, K 1 W max. 0,5 m

3. The track must be anchored by two fixpoint hangers in the center of the run. With fixpoint hangers for the systems S 1, S 2 and S 3 set and counter the grub-screw. The K 1 system fixpoint hanger requires a boring \varnothing 10 mm at the top of the track for inserting and locking the M 10 bolt. Use sliding hangers towards both ends.

Installations up to 30 m length may use only the tight clamping version of hangers.

S 1, S 2 and S 3 tracks to serve as control carrier runways must always use fixpoint hangers only. K 1 tracks in conjunction with control carriers use 1 fixpoint hanger in the center and at both ends, the rest is sliding hangers.

4. Connect track sections with joint clamps. Center fit and proper alignment is important.

S 2 control carrier tracks use VS 2-F lock type joints.

5. The ends of the track are closed by end caps after all carriers inserted.

Cable Carriers

Cable carrier WS 1, WST 1, WS 2, WST 2 and WST 3

1. The system must be installed in the following order:
 Lead carrier
 Cable carriers
 Bumper stop (only S 1 and S 2 systems)
 Track clamp

For S 1 and S 2

Tighten bolts on track clamp and bumper stop.

For S 3

For anchor track clamp drill 2 holes 12,5 mm \varnothing and insert the 2 bolts (use drill-jig VS 3).

3. Connect lead carrier to equipment with an outrigger-tube \varnothing 30 mm for S 1 and S 2, \varnothing 40 mm for S 3 installations. This tow arm (by others) should fit centrally into the rectangular box of the lead carrier. Make sure that there is sufficient storage space for carriers between track clamp and lead carrier.

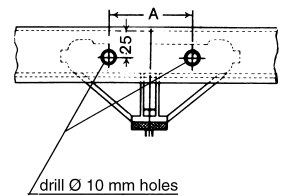
Glider SK 1 and Carrier WK 1

1. The system must be installed in the following order:

Lead carrier
 Cable carriers
 Track clamp

2. Install track clamp by drilling 2 holes 10 mm \varnothing through K 1 housing and insert the 2 bolts.

Type	A mm
ESK 1/150	70
EK 1/F100 n	30
EK 1/F150 n	70



3. Connect lead carrier to equipment by tow arm GKM. The arm should fit centrally into hole of lead carrier, allowing free vertical movement.

4. In case of control carriers use a bumper stop opposite of the track clamp. S 1 and S 2 bumpers to be bolted, K 1 bumpers require a horizontal boring \varnothing 10 mm (20 mm below top of track) for attachment.

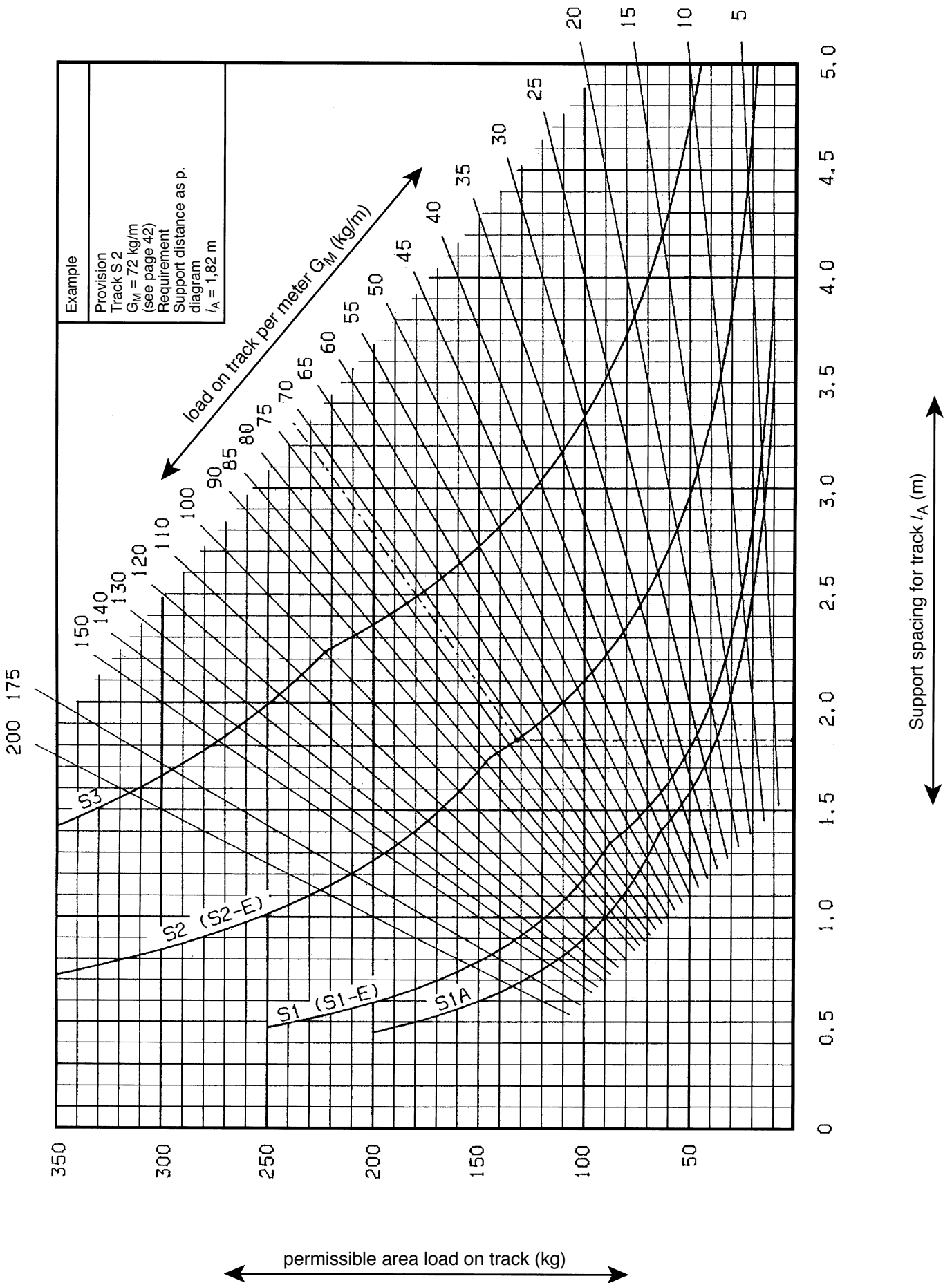
For safety reasons and to completely secure the track joints we do recommend welding together the track and the joint clamps in the upper portion or use VS 2-F lock type joints for S 2 tracks. Track and hangers at both ends of the system to be horizontally drilled 9 mm \varnothing and a hex. bolt M 8 x 60 mm, pushed through and secured with nut and washer to prevent the track from sliding.

5. When installing the cables make sure the cable length L (storage distance + max. working travel x approx. 1,1 – 1,2) is equally distributed between the carriers; start from lead carrier or from track clamp and consider hookup cable lengths to input junction box and to the equipment. Secure cables on carriers with compression bolts and lock nuts.

6. Make test runs.

Installation information for control carriers with motorized lifting device see pages 32 and 33.

Support Spacing for Box Tracks



Example
 Provision
 Track S2
 $G_M = 72 \text{ kg/m}$
 (see page 42)
 Requirement
 Support distance as p.
 diagram
 $l_A = 1,82 \text{ m}$