Andernacher Bimswerk GmbH & Co KG
Füllscheuer Weg 22, 56626 Andernach
Phone: +49 (0)2632 / 2006 - 0
www.abi-beton.de
info@abi-beton.de

Instructions for lifting lattice girder slabs

These instructions apply in conjunction with the SySpro installation manual for double and thermal walls, including the installation manual for floor slabs. https://www.abi-beton.de/downloadcenter.php Refer to the current installation diagram for the dimensions and weight of the elements. The number and type of lattice girders are determined in advance in our dimensioning.

The attachment devices must be provided by the customer on delivery. Appropriate chain suspensions are to be used depending on the size of the slabs. Loads may only be attached by customer personnel who have been instructed on the attachment of loads. Our truck drivers are not allowed to do this work.

1) Lattice girder slabs up to 6 m in length

- Lattice girder slabs of up to 6 m in length can be installed using a 4-leg lifting chain (see fig. 2). In no case may the angle between the chain suspension and the floor slab be less than 60°. Use chains of a sufficient length (≥ 6.00 m).
- A balancer may be necessary in the case of asymmetric slabs or large openings.
- Ensure that the chain suspensions pull evenly when lifting. Lift and set down slowly. Lift and swivel horizontally. Avoid jerky movements.
- The 4 snap hooks must be hooked into the diagonal loops (see fig. 1). The 4 hooks must not be hooked onto the two outer lattice girders (see fig. 2).

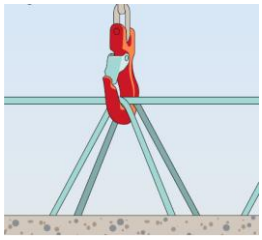

Fig. (1)

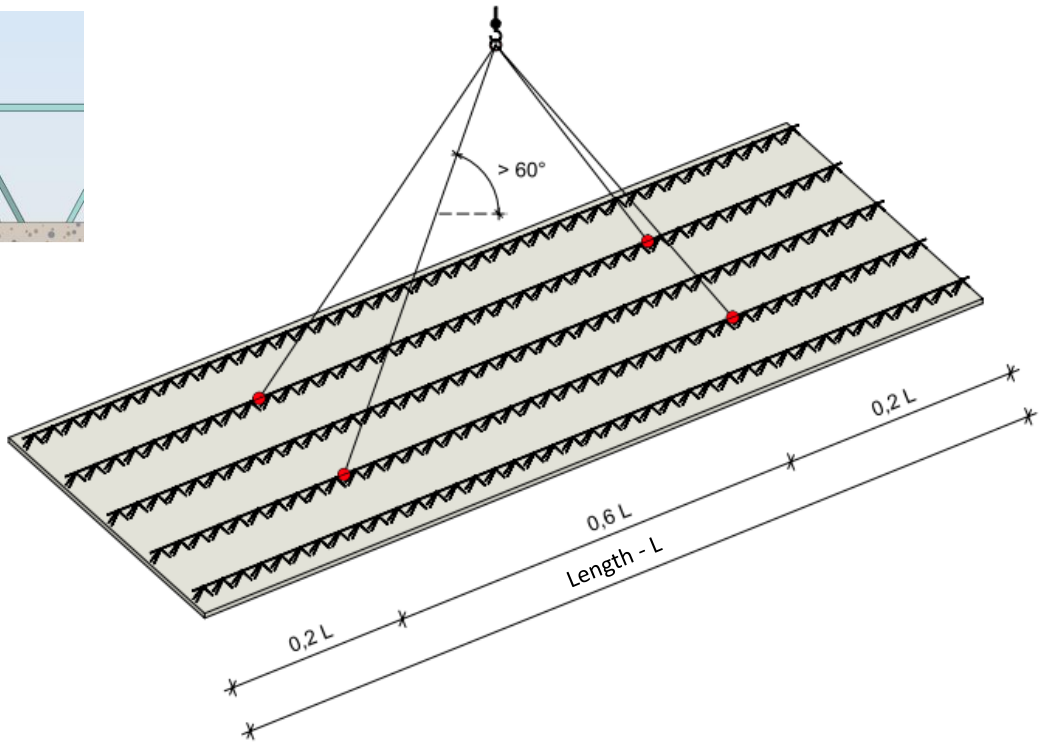

Fig. (2)

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2) Lattice girder slabs exceeding 6 m / up to 9.00 m in length

- In the case of lattice girder slabs of over 6 m / up to 9.00 m in length, a 4-leg lifting chain and 4 deflecting/balancing suspension gears with 8 hook-up points (see fig. 4 / fig. 5) must be used, so that an even load distribution of the dead weight on the lattice girders is guaranteed.

- Longer slab lengths (over 9.00 m) may be possible in consultation with us, provided the load capacity of the chain is not exceeded and the attachment devices are suitable for the purpose.

- In no case may the angle between the chain suspension and the floor slab be less than 60°. Use chains of a sufficient length!

- Ensure that the chain suspensions pull evenly when lifting. Lift and set down slowly. Lift and swivel horizontally. Avoid jerky movements.

- The 8 snap hooks must be hooked into the diagonal loops (see fig. 3). The hooks are to be attached to the lattice girders as shown in fig. (4) / fig. (5). The procedure is the same with narrower slabs.

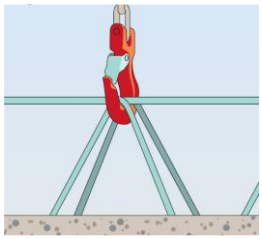

Fig. (3)

Fig. (4)

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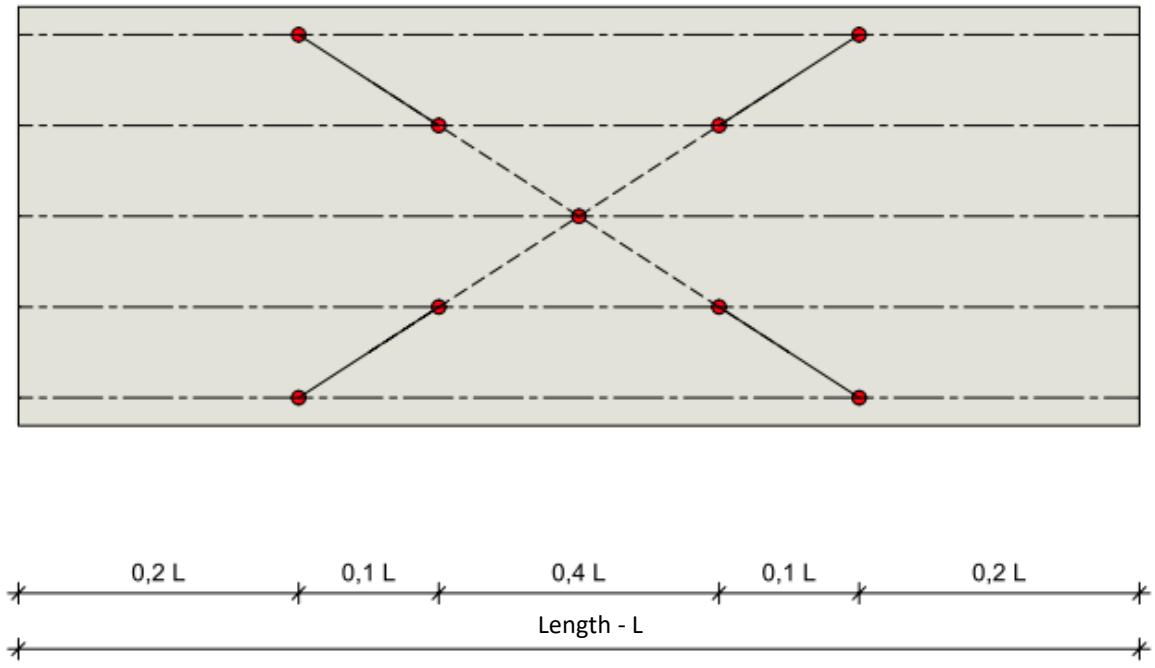

Fig. (5)

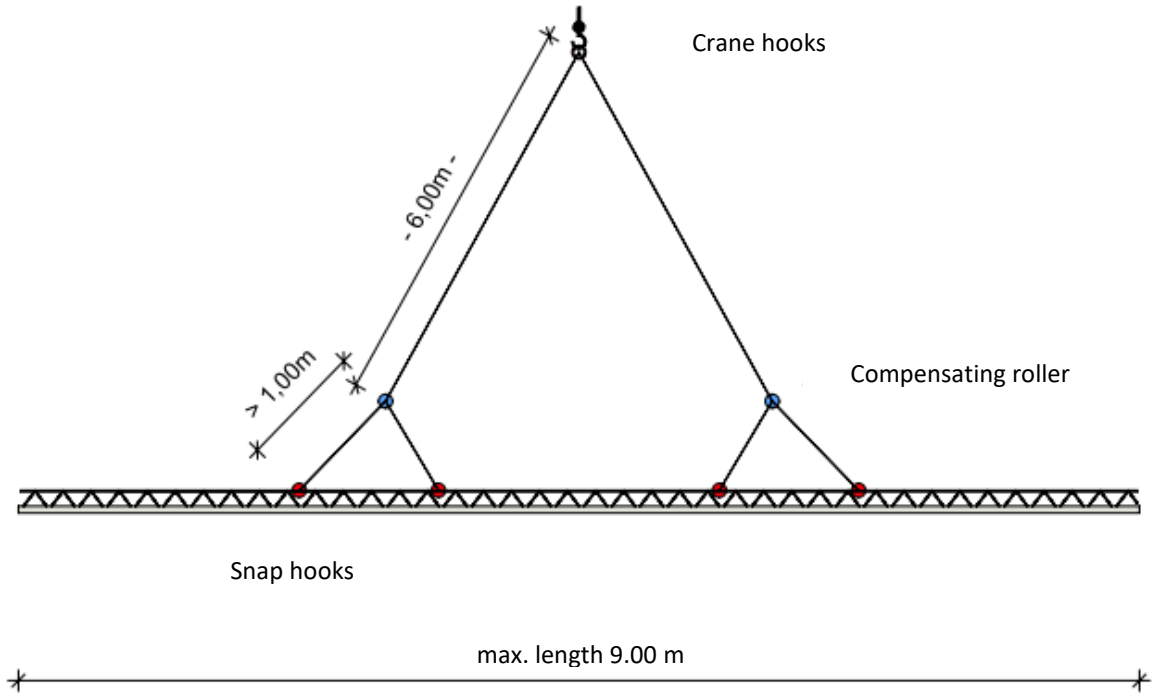

Fig. (6)

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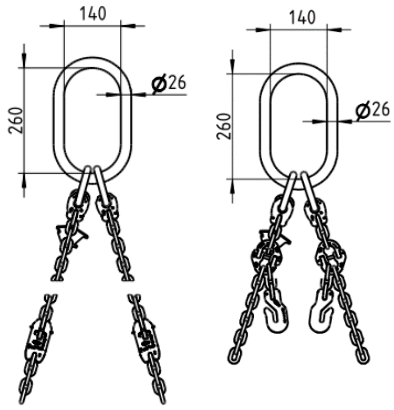
3) Balancing suspension gear with 8 hook-up points:

It is possible to shorten the 4-leg main chain using multifunction claws or shortening hooks.



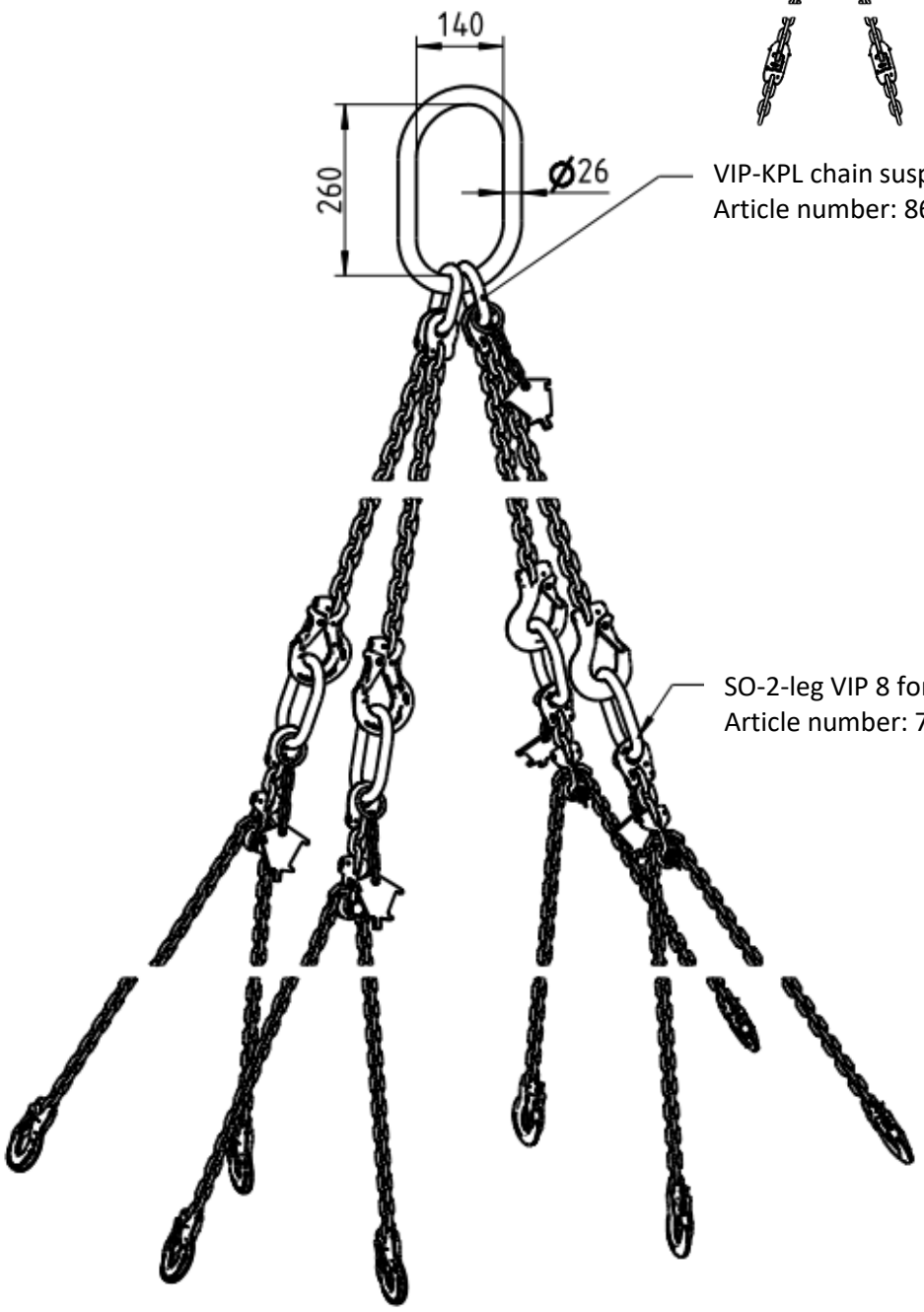


Fig. (7)



Fig. (8)

a) Manufacturer of the chain suspension:

RUD Ketten Rieger & Dietz GmbH u. Co. KG
Friedensinsel
73432 Aalen, Germany

b) Technical data for the chain suspension:

The 4-leg RUD chain suspension can be purchased unshortened or shortened with hooks or claws.

Load capacity of the chain suspension with 8 attachment points:		5.25 t
Angle of inclination:		0-45°
Load factor:		2.10
Weight of the chains:	1 x 4-leg main chain suspension:	45 kg
	4 x 2-leg deflecting suspension gear:	18 kg
	Sum of the combination:	63 kg

c) Operating instructions for the chain suspension:

The manufacturer's operating instructions must be followed. They are available for download on our homepage: https://www.abi-beton.de/downloadcenter.php

a) Sales and advice through:

RUD Ketten Rieger & Dietz GmbH u. Co. KG
Website: https://www.lash-lift.de/
Locations: https://www.lash-lift.de/unternehmen/standorte/uebersicht/

Order no.:	1 x 4-leg main chain suspension:	8600211
	4 x 2-leg deflecting suspension gear:	7914062

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4) Stacking the lattice girder slabs on delivery

- Seven days prior to delivery, we send our customers a delivery date confirmation email. This mail contains a link via which the stacking list and the installation plan can be viewed. If a particular order of installation has to be kept to, we recommend coordinating this with our work preparation department before production of the slabs. https://www.abi-beton.de/kontakt.php. Changes are no longer possible at a later time.

- As a rule, the lattice girder slabs are stacked and loaded in such a way that they can be unloaded immediately from the truck, unless the unloading of the truck or necessary load securing measures dictate a different order. In that case, short-term interim storage on the building site cannot be avoided.

- Fitting slabs are usually located at the top of the stack (see fig. 9). In case of interim storage on the building site, the storage surface must be even and capable of bearing loads.

- For the protection of the underside of the slabs, lay two square timbers that are as long as the width of the slabs. Their distance to the slab ends should be about 1/5 of the slab length. For slabs that are longer than 4.50 m, three or, better still, four square timbers should be placed underneath.



Fig. (9)