



2021

# Deck plate fairing in ship construction



Hilbig GmbH

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## Hilbig high speed fastening systems for deck plate fairing using aluminium bridges



### Hilbig high speed fastening systems for deck plate fairing using aluminium bridges

Deck plate fairing using Hilbig aluminium bridges, tensile nuts and mounting studs is economic. The aluminium bridges are installed transverse to the welding seam. Depending on the required effort ALB2, ALB3 or ALB4 are mounted on the longitudinal ligaments, with ALB1/Se used in between.

Aluminium strong backs in lengths 2000, 4000 and 6000 can be mounted parallel to the welding seam.

The advantages of this system are:

- optimal installation process through stud welding (mounting studs)
- >50% time saving as opposed to installation using steel plates, sheet steel and wedges
- secure deck plate fairing
- overhead deck plate fairing can be effected quickly
- expendable material is reduced by applying our reusable system
- energy saving application
- easy disassembly and little subsequent work (no undercuts at the welding seam)

Various stud and tensile nut dimensions are available for different steel plate thicknesses:

- M10 for aluminium alloys for all plate thicknesses, as well as for steel construction whose plate thickness up to 6mm is used for the vast majority
- M12 for steel construction whose plate thickness is mainly 7mm up to 16mm
- M16 for especially heavy steel constructions whose plate thickness is mainly more than 16mm

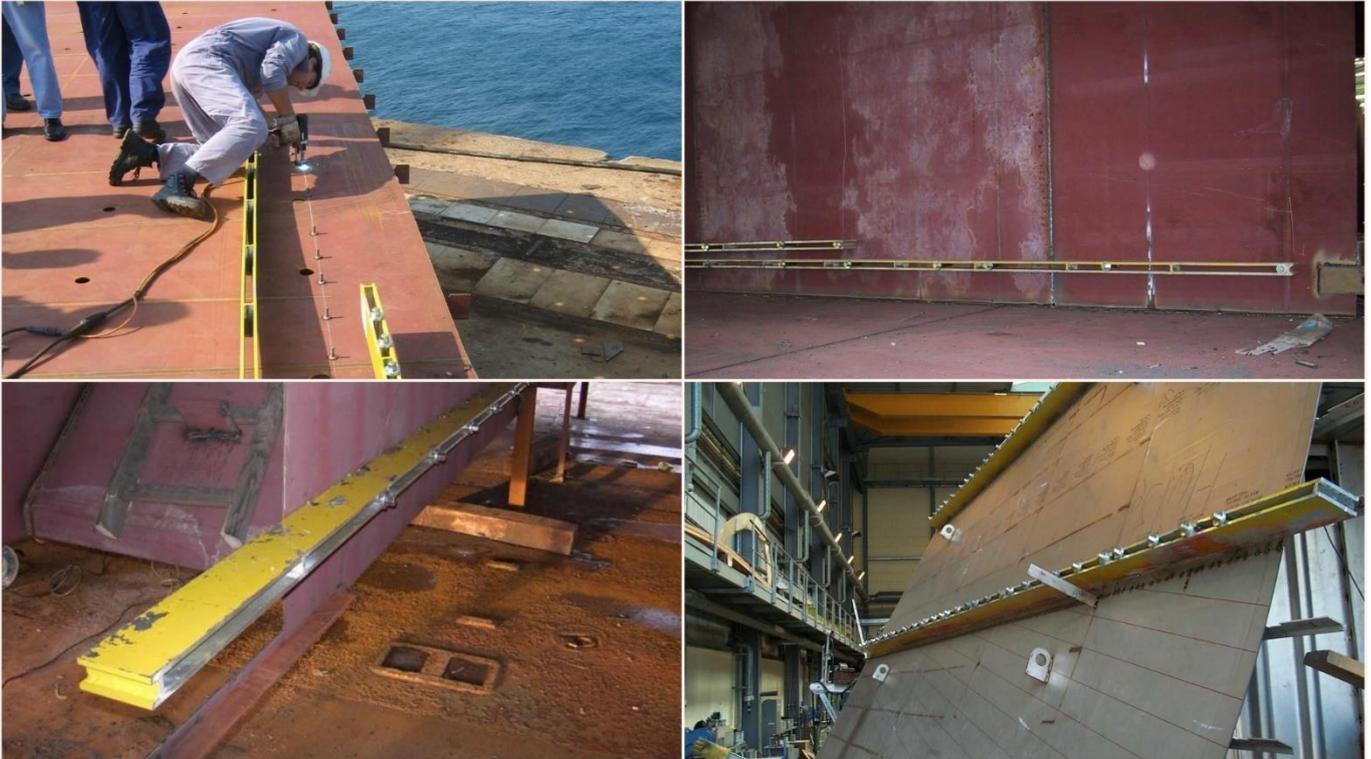
**We will gladly consult  
you!**

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## Hilbig high speed fastening systems for deck plate fairing using strong backs



Strong backs, in lengths 2000,4000 and 6000 can be installed parallel to the welding seam.

These can reduce the assembly time considerably when preparing walls.

Due to their flexibility, the strong backs can also be used for longitudinal seams on outer shells.

The application area for our strong backs is a plate thickness of up to 8 mm.

Kindly let us consult you.

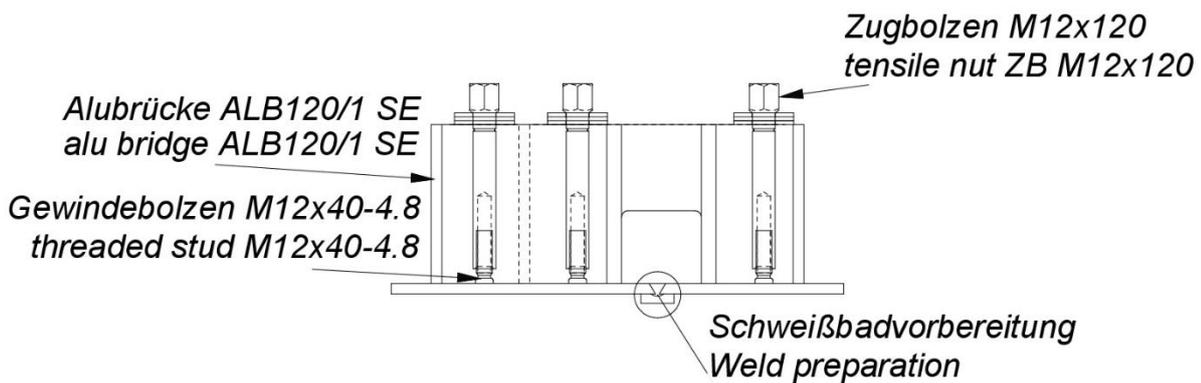
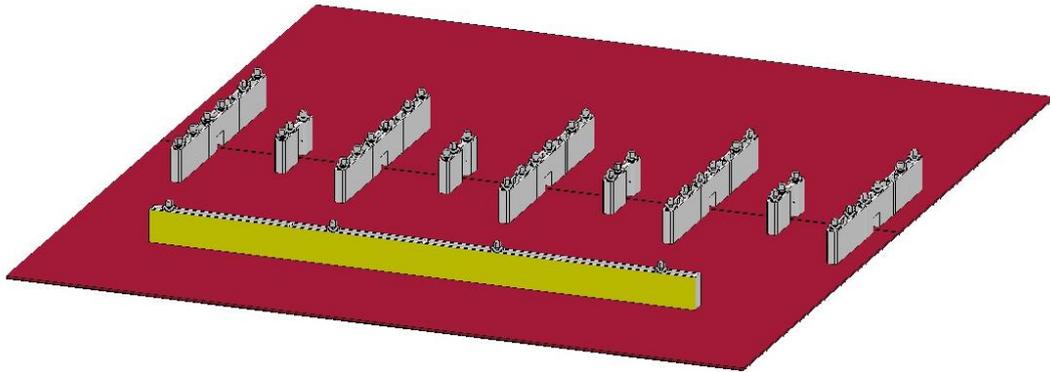
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Deck plate fairing (steel construction area)



The advantages are:

- optimal installation process through stud welding (mounting studs)
- >50% time saving as opposed to installation using steel plates, sheet steel and wedges
- secure deck plate fairing
- overhead deck plate fairing can be effected quickly
- expendable material is reduced by applying our reusable system
- energy saving application
- easy disassembly and little subsequent work (no undercuts at the welding seam)

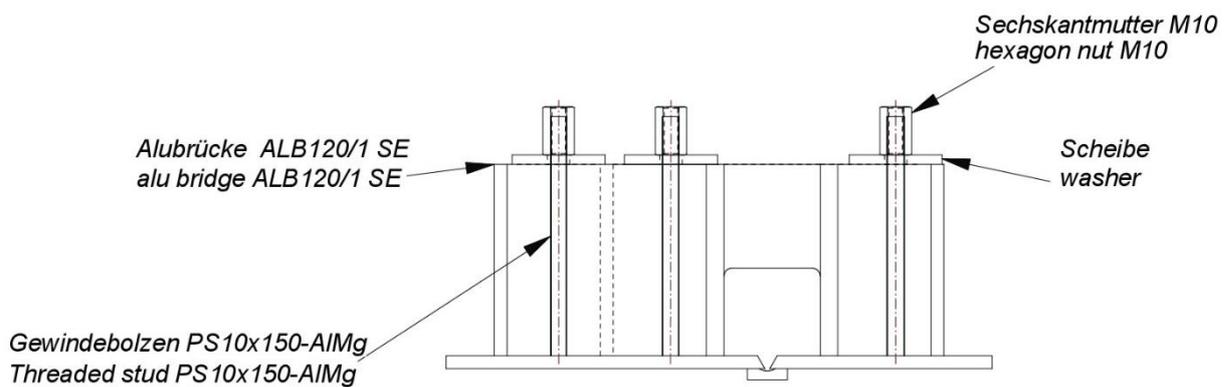
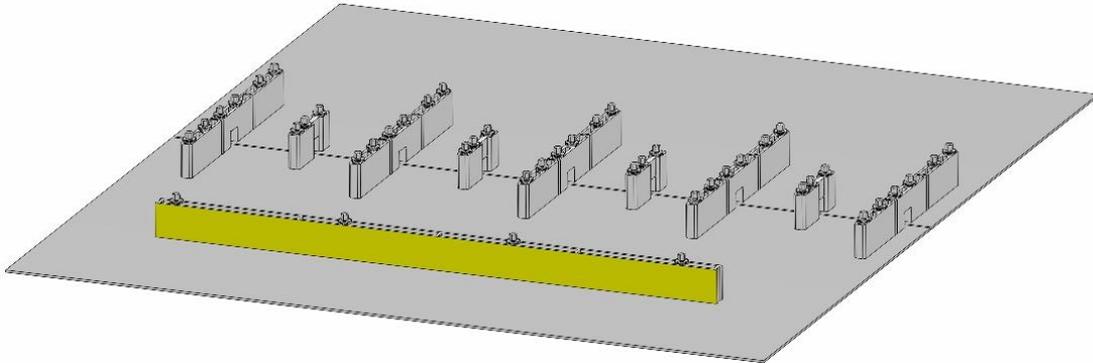
Application area	Tensile nuts	Mounting studs
Steel up to 6mm	M10	Typ FD M10x40
Steel 7 up to 16mm	M12	Typ MD M12x40
Steel > 16mm	M16	Typ MD M16x40

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## Deck plate fairing (aluminium construction area)



The advantages are:

- optimal installation process through stud welding (mounting studs)
- >50% time saving as opposed to installation using steel plates, sheet steel and wedges
- secure deck plate fairing
- overhead deck plate fairing can be effected quickly
- expendable material is reduced by applying our reusable system
- energy saving application
- easy disassembly and little subsequent work (no undercuts at the welding seam)

Application area  
Aluminium

Tensile nuts  
PS M10x150

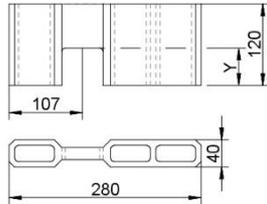
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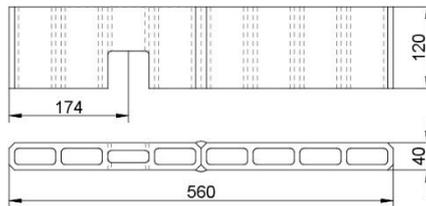


# Aluminium bridge type ALB

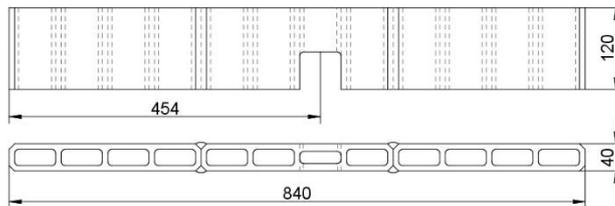
ALB120/1 SE  
H45047



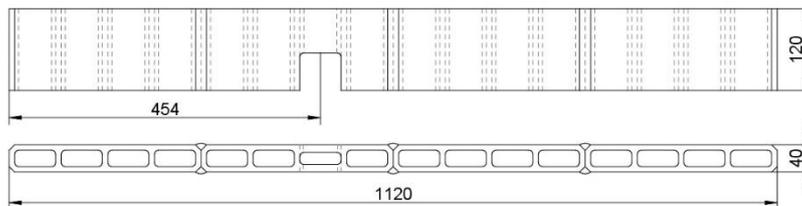
ALB120/2  
H10493



ALB120/3  
H10494



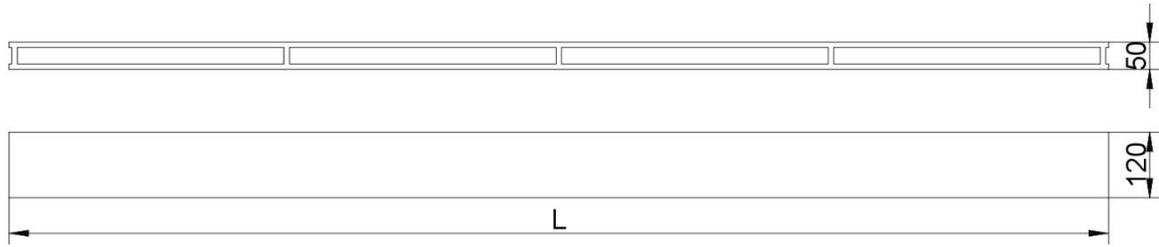
ALB120/4  
H10495



Further dimensions on request



## Aluminium strong backs

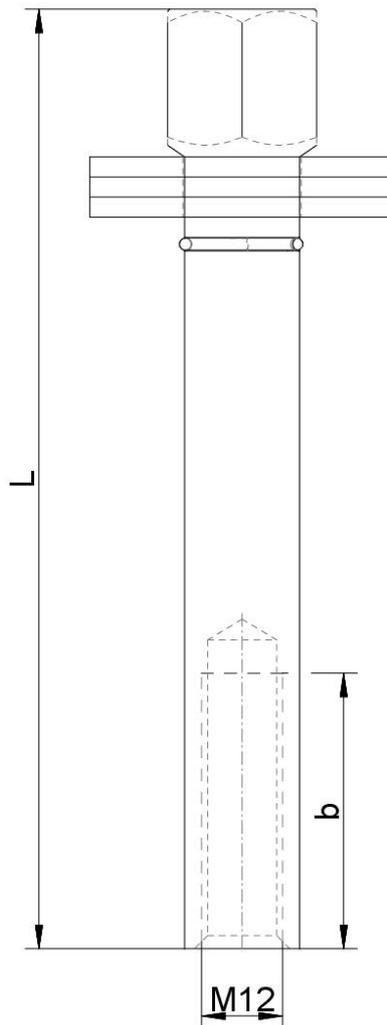


description	part no.	dimensions	
		L	kg/Piece
ALG 120/2000	H45015	2000	14
ALG 120/4000	H45016	4000	28
ALG 120/6000	H45017	6000	42

Further materials and dimensions upon request



## Tensile nuts type ZB and welding studs



description	part no.	length		
		L	G	b
ZB M12/120	H11144	140	M12	40
ZB M16/120	H14245	130	M16	50

### comments:

- |                       |            |          |
|-----------------------|------------|----------|
| • studs MD M12x40-4.8 | Material   | part no. |
| • studs MD M16x40-4.8 | steel      | H16924   |
| • studs DD12x45-A4/A5 | steel      | H17348   |
|                       | CrNi steel | H14917   |

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