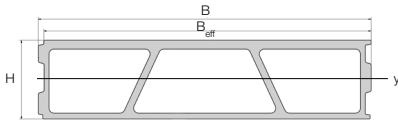
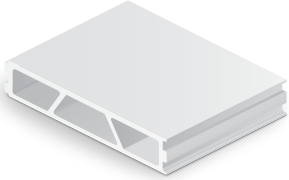




Ultra Duty Plank

CE marked



The Ultra Duty Plank is our strongest decking, designed to meet the most stringent load requirements for pedestrian and cycle bridges. The UD plank reduces the weight of the structure and is easy to work with at the installation site. It is also corrosion-resistant against a range of chemicals and salt water. Asphalt or PPMA/Epoxy strewn with sand or gravel can be used as a wearing surface.

Application

The UD plank is designed for large load requirements, e.g. bridges with occasional traffic of vehicles up to 12 tonnes. However, it can also be used for walkways, access roads and coverings. The UD plank can be mounted on underlying structures made of steel, reinforced concrete or fibreglass and can be fixed in the transverse or longitudinal direction by bonding with a dual-component epoxy adhesive. This results in a strong and rapid bond that lasts for many years.

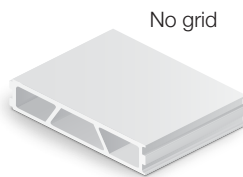
Quality and standards

Our planks are certified in accordance with several accepted standards, including CE, the German aBG standard and EN13706. This is your guarantee of a high and consistent quality every time you shop with us.

H	B	B _{eff}	A	I _x	Weight	E _{0o}
mm	mm	mm	mm ²	x 10 ⁶ mm ⁴	g/m	x 10 ³ MPa
80	339	333	7118	7,22	12.900	30

Colours:

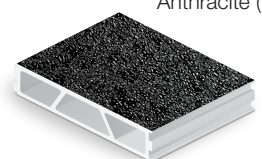
Fiberline Ultra Duty Plank is also available with anti-skid surface in light and dark grey.



No grid



Grey (7035)



Anthracite (7022)

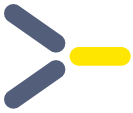
Grid:



Grid size: R10
Sand 0,3 - 1,10 mm



Grid size: R12
Sand 1 - 2 mm



Accessories for planks

All metal parts are stainless steel AISI 316



HD-Clip

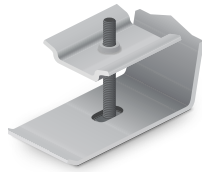
Product number: 149100

HD clip used for the subassembly of our HD planks.

Comes with M8x50 bolt (ISO 4014) and washer for assembly.

All parts are made of acid-resistant stainless steel (1.4404 / AISI 316L)

This item is sold as 20 pcs. in a pre-packed box.



HD-Clamp 10-30 mm

Product number: 149101

HD Clamp ensures easy assembly and removal of planks without the need for special tools. The bracket is used for subassembly. 10-30 mm flange

Comes with M8x50 bolt (ISO 4014) and wedge lock washer.

All parts are made of acid-resistant stainless steel (1.4404 / AISI 316L)

This item is sold as 20 pcs. in a pre-packed box.



Base Plate Washer

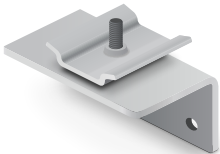
Product number: 149105

The bracket is used for the top mounting of Fiberline planks MD and HD. The washer measures $\varnothing 30$ and fits $\varnothing 21.5$ hole.

Comes with M8x60 bolt (ISO 4014) and washer (ISO 7093)

All parts are made of acid-resistant stainless steel (1.4404 / AISI 316L)

This item is sold as 20 pcs. in a pre-packed box.



HD Angle

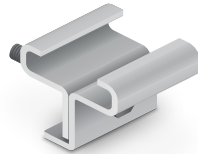
Product number: 149103

This bracket is used for the subassembly of Fiberline HD planks on wooden beams, as an example.

Comes with M8x30 bolt (ISO 4017) and washer (ISO 7089)

All parts are made of acid-resistant stainless steel (1.4404 / AISI 316L)

This item is sold as 20 pcs. in a pre-packed box.



Coupling Clip

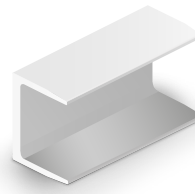
Product number: 149104

The bracket is used for the assembly of flanges on Fiberline planks HD and MD. The brackets allow for tightening.

Comes with Allen screw.

All parts are made of acid-resistant stainless steel (1.4404 / AISI 316L)

This item is sold as 10 pcs. in a pre-packed box.



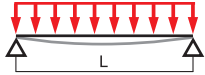
EDGE U-PROFILE U

Product number: 090145

The U-profile is used for the edge finishing of MD and HD planks in order to give a nice finish to the solution. The U-profile is made of fiberglass that is corrosion-free and therefore has minimal maintenance requirements even under demanding conditions. It provides a long life to the solution in fiberglass even under demanding conditions.



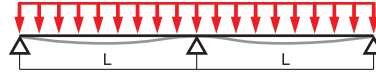
UD plank



One span, uniform distributed load

(included reduction factors Y_M , A_2 and A_3)

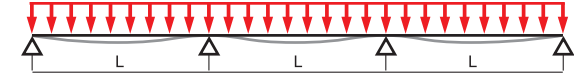
Span L [m]	Load capacity per meter width		
	Deflection L/200 [kN/m ²] around z-axis	Deflection L/300 [kN/m ²] around z-axis	Failure [kN/m ²] around z-axis
0.75	366.44	244.29	389.47
1.00	179.11	119.41	292.11
1.25	98.97	65.98	233.68
1.50	59.85	39.90	194.74
1.75	38.74	25.83	153.86
2.00	26.43	17.62	117.80
2.25	18.80	12.53	93.08
2.50	13.83	9.22	75.39
2.75	10.46	6.98	62.31
3.00	8.10	5.40	52.36



Two spans, uniform distributed load

(included reduction factors Y_M , A_2 and A_3)

Span L [m]	Load capacity per meter width		
	Deflection L/200 [kN/m ²] around z-axis	Deflection L/300 [kN/m ²] around z-axis	Failure [kN/m ²] around z-axis
0.75	311.58*	311.58*	311.58
1.00	233.68*	223.07	233.68
1.25	186.95*	132.36	186.95
1.50	125.76	83.84	155.79
1.75	83.98	55.99	133.53
2.00	58.55	39.04	116.84
2.25	42.31	28.21	93.08
2.50	31.49	20.99	75.39
2.75	24.03	16.02	62.31
3.00	18.74	12.49	52.36



Three spans, uniform distributed load

(included reduction factors Y_M , A_2 and A_3)

Span L [m]	Load capacity per meter width		
	Deflection L/200 [kN/m ²] around z-axis	Deflection L/300 [kN/m ²] around z-axis	Failure [kN/m ²] around z-axis
0.75	324.56*	324.56*	324.56
1.00	243.42*	191.19	243.42
1.25	166.39	110.93	194.74
1.50	103.80	69.20	162.28
1.75	68.59	45.73	139.10
2.00	47.47	31.65	121.71
2.25	34.11	22.74	108.19
2.50	25.29	16.86	94.24
2.75	19.24	12.83	77.88
3.00	14.96	9.98	65.44

* The load bearing capacity at failure determines the dimension.