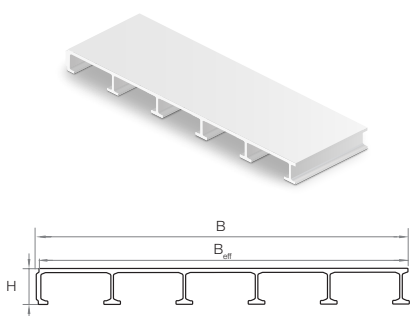




Medium Duty Plank

CE marked



Fiberline Medium Duty Plank is designed with an excellent price-performance ratio. The plank weighs only 6.58 kg/m, making it easy to handle on-site as well as reducing the weight of the final solution. Like other products from Fiberline, MD plank is made of GFRP. This material has noteworthy properties such as a long, proven life as well as high corrosion resistance and strength.

Application

Our MD Plank is typically used for industrial applications where the load requirements and spans are limited. Typically, the planks are used for flooring on walkways and access roads as well as different types of covers. Furthermore, the plank can easily be used as a facade cladding system in areas where high corrosion and chemical resistance is required.

Quality and standards

Our profiles are certified according to a number of recognised standards, including CE, aBG and EN13706. This is your guarantee that you get a high, 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
40	505	500	3.650	0,7	6.570	23

Colours:

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



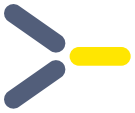
Grid:



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

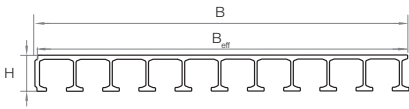
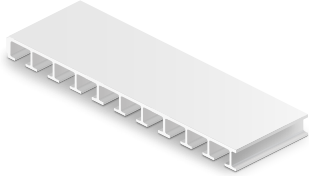


Grid size: R12
Sand 1 - 2 mm



Heavy Duty Plank

CE marked



With our fibreglass HD planks you get a cost-effective alternative to similar planks, covers and bridge decking. The plank is ideal for reducing the weight of the final solution without compromising on strength requirements. The HD Plank is corrosion- and weather resistant which results in a long lifetime and only limited needs for maintenance, even under demanding conditions. Other advantages include great strength, low weight and electrical insulation.

Application

Our strong Heavy Duty Plank is suitable for applications where load requirements are 5 kN/m² and point loads are 10 kN. The planks are thus typically applied constructions with public access, e.g. decks for bike paths and pedestrian bridges, parking areas, walkways, stairs, cladding and covers. Due to the high corrosion resistance of the plank, it also finds wide use in swimming pools, industry and cooling towers settings as well as offshore.

Quality and standards

Our profiles are certified according to a number of recognised standards, including CE, aBG and EN13706. This is your guarantee that you get a high, 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
40	505	500	4.783	1,07	8.530	20,5

Colours:

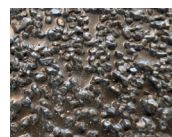
Fiberline Heavy Duty Plank is also available with anti-skid surface in light and dark grey.



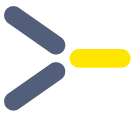
Grid:



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

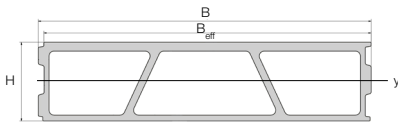
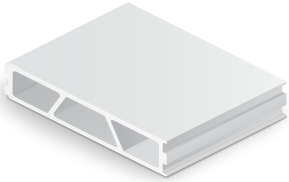


Grid size: R12
Sand 1 - 2 mm



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:

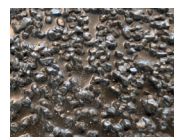
Fiberline Ultra Duty Plank is also available with anti-skid surface in light and dark grey.



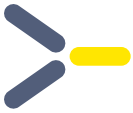
Grid:



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

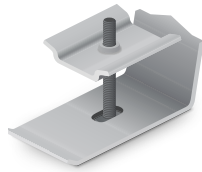
Product number: 149100

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

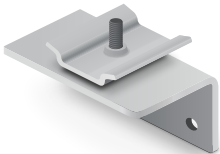
Product number: 149105

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

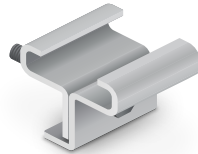
Product number: 149103

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

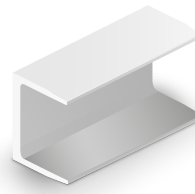
Product number: 149104

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.



MD Plank

Single span with line load			
	Load capacity per meter width at L/200 [kN/m ²]	Load capacity per meter width at L/300 [kN/m ²]	Load bearing capacity per meter width [kN/m ²]
Span L [m]	z-axis	z-axis	z-axis
0,50	81,80	54,54	199,82
1,00	11,69	7,79	57,59
1,50	3,56	2,37	25,60
2,00	1,52	1,01	14,40
2,50	0,78	0,52	9,22
3,00	0,45	0,30	6,40
3,50	0,29	0,19	4,70
4,00	0,19	0,13	3,60
4,50	0,13	0,09	2,84
5,00	0,10	0,07	2,30

* Load-bearing capacity governed

Two spans with line load			
	Load capacity per meter width at L/200 [kN/m ²]	Load capacity per meter width at L/300 [kN/m ²]	Load bearing capacity per meter width [kN/m ²]
Span L [m]	z-axis	z-axis	z-axis
0,50	159,21	106,14	159,85
1,00	26,32	17,55	57,59
1,50	8,29	5,53	25,60
2,00	3,58	2,39	14,40
2,50	1,85	1,23	9,22
3,00	1,08	0,72	6,40
3,50	0,68	0,45	4,70
4,00	0,46	0,30	3,60
4,50	0,32	0,21	2,84
5,00	0,23	0,16	2,30

* Load-bearing capacity governed

Three spans with line load			
	Load capacity per meter width at L/200 [kN/m ²]	Load capacity per meter width at L/300 [kN/m ²]	Load bearing capacity per meter width [kN/m ²]
Span L [m]	z-axis	z-axis	z-axis
0,50	134,72	89,82	166,51
1,00	21,22	14,15	71,99
1,50	6,61	4,40	32,00
2,00	2,84	1,89	18,00
2,50	1,46	0,98	11,52
3,00	0,85	0,57	8,00
3,50	0,54	0,36	5,88
4,00	0,36	0,24	4,50
4,50	0,25	0,17	3,56
5,00	0,19	0,12	2,88

* Load-bearing capacity governed

Single span with point load			
	Load capacity per meter width at L/200 [kN]	Load capacity per meter width at L/300 [kN]	Load bearing capacity per meter width [kN]
Span L [m]	z-axis	z-axis	z-axis
0,50	54,54	36,36	57,59
1,00	7,44	4,96	28,80
1,50	2,24	1,49	19,20
2,00	0,95	0,63	14,40
2,50	0,49	0,33	11,52
3,00	0,28	0,19	9,60
3,50	0,18	0,12	8,23
4,00	0,12	0,08	7,20
4,50	0,08	0,06	6,40
5,00	0,06	0,04	5,76

* Load-bearing capacity governed

Two spans with point load			
	Load capacity per meter width at L/200 [kN]	Load capacity per meter width at L/300 [kN]	Load bearing capacity per meter width [kN]
Span L [m]	z-axis	z-axis	z-axis
0,50	70,93*	48,41	70,93
1,00	10,21	6,81	35,46
1,50	3,10	2,07	23,64
2,00	1,32	0,88	17,73
2,50	0,68	0,45	14,19
3,00	0,39	0,26	11,82
3,50	0,25	0,17	10,13
4,00	0,17	0,11	8,87
4,50	0,12	0,08	7,88
5,00	0,09	0,06	7,09

* Load-bearing capacity governed

Three spans with point load			
	Load capacity per meter width at L/200 [kN]	Load capacity per meter width at L/300 [kN]	Load bearing capacity per meter width [kN]
Span L [m]	z-axis	z-axis	z-axis
0,50	71,99*	49,58	71,99
1,00	10,49	6,99	36,00
1,50	3,18	2,12	24,00
2,00	1,35	0,90	18,00
2,50	0,70	0,46	14,40
3,00	0,40	0,27	12,00
3,50	0,25	0,17	10,28
4,00	0,17	0,11	9,00
4,50	0,12	0,08	8,00
5,00	0,09	0,06	7,20

* Load-bearing capacity governed



HD Plank

Single span with line load			
	Load capacity per meter width at L/200 [kN/m ²]	Load capacity per meter width at L/300 [kN/m ²]	Load bearing capacity per meter width [kN/m ²]
Span L [m]	z-axis	z-axis	z-axis
0,50	127,68	85,12	334,99
1,00	18,07	12,05	101,67
1,50	5,49	3,66	45,19
2,00	2,34	1,56	25,42
2,50	1,20	0,80	16,27
3,00	0,70	0,46	11,30
3,50	0,44	0,29	8,30
4,00	0,29	0,20	6,35
4,50	0,21	0,14	5,02
5,00	0,15	0,10	4,07

* Load-bearing capacity governed

Two spans with line load			
	Load capacity per meter width at L/200 [kN/m ²]	Load capacity per meter width at L/300 [kN/m ²]	Load bearing capacity per meter width [kN/m ²]
Span L [m]	z-axis	z-axis	z-axis
0,50	251,81	167,87	267,99
1,00	40,88	27,26	101,67
1,50	12,82	8,55	45,19
2,00	5,52	3,68	25,42
2,50	2,86	1,90	16,27
3,00	1,66	1,11	11,30
3,50	1,05	0,70	8,30
4,00	0,70	0,47	6,35
4,50	0,50	0,33	5,02
5,00	0,36	0,24	4,07

* Load-bearing capacity governed

Three spans with line load			
	Load capacity per meter width at L/200 [kN/m ²]	Load capacity per meter width at L/300 [kN/m ²]	Load bearing capacity per meter width [kN/m ²]
Span L [m]	z-axis	z-axis	z-axis
0,50	212,19	141,46	279,16
1,00	32,90	21,94	127,09
1,50	10,20	6,80	56,48
2,00	4,38	2,92	31,77
2,50	2,26	1,51	20,33
3,00	1,31	0,87	14,12
3,50	0,83	0,55	10,37
4,00	0,56	0,37	7,94
4,50	0,39	0,26	6,28
5,00	0,29	0,19	5,08

* Load-bearing capacity governed

Single span with point load			
	Load capacity per meter width at L/200 [kN]	Load capacity per meter width at L/300 [kN]	Load bearing capacity per meter width [kN]
Span L [m]	z-axis	z-axis	z-axis
0,50	84,75	56,50	101,67
1,00	11,48	7,65	50,84
1,50	3,46	2,30	33,89
2,00	1,47	0,98	25,42
2,50	0,75	0,50	20,33
3,00	0,44	0,29	16,95
3,50	0,27	0,18	14,52
4,00	0,18	0,12	12,71
4,50	0,13	0,09	11,30
5,00	0,09	0,06	10,17

* Load-bearing capacity governed

Two spans with point load			
	Load capacity per meter width at L/200 [kN]	Load capacity per meter width at L/300 [kN]	Load bearing capacity per meter width [kN]
Span L [m]	z-axis	z-axis	z-axis
0,50	113,16	75,44	125,21
1,00	15,78	10,52	62,61
1,50	4,78	3,18	41,74
2,00	2,03	1,35	31,30
2,50	1,04	0,70	25,04
3,00	0,60	0,40	20,87
3,50	0,38	0,25	17,89
4,00	0,26	0,17	15,65
4,50	0,18	0,12	13,91
5,00	0,13	0,09	12,52

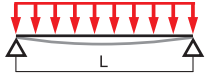
* Load-bearing capacity governed

Three spans with point load			
	Load capacity per meter width at L/200 [kN]	Load capacity per meter width at L/300 [kN]	Load bearing capacity per meter width [kN]
Span L [m]	z-axis	z-axis	z-axis
0,50	115,93	77,29	127,09
1,00	16,21	10,81	63,54
1,50	4,91	3,27	42,36
2,00	2,09	1,39	31,77
2,50	1,07	0,72	25,42
3,00	0,62	0,41	21,18
3,50	0,39	0,26	18,16
4,00	0,26	0,18	15,89
4,50	0,18	0,12	14,12
5,00	0,13	0,09	12,71

* Load-bearing capacity governed



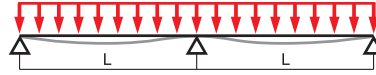
UD plank



One span, uniform distributed load

(included reduction factors Y_M , A_2 and A_3)

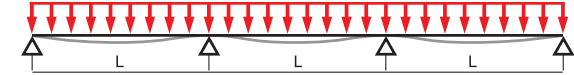
Span L [m]	Load capacity per meter width		
	Deflection L/200 [kN/m ²] around z-axis	Deflection L/300 [kN/m ²] around z-axis	Failure [kN/m ²] around z-axis
0.75	366.44	244.29	389.47
1.00	179.11	119.41	292.11
1.25	98.97	65.98	233.68
1.50	59.85	39.90	194.74
1.75	38.74	25.83	153.86
2.00	26.43	17.62	117.80
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.