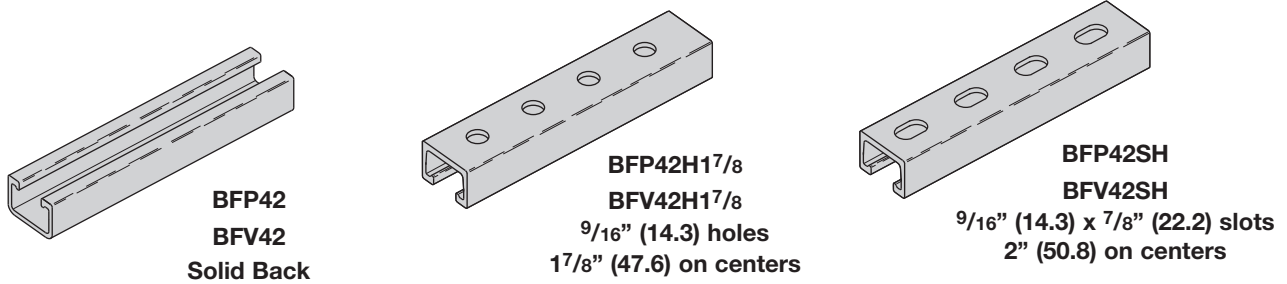


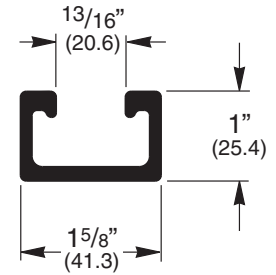
# Fiberglass

## BFP42 THRU BFV42SH

- Channel lengths: 10 Ft. (3.05 m) and 20 Ft. (6.09 m)
- Fiberglass strut meets specification of ASTM D-4385 Levels III and IV.



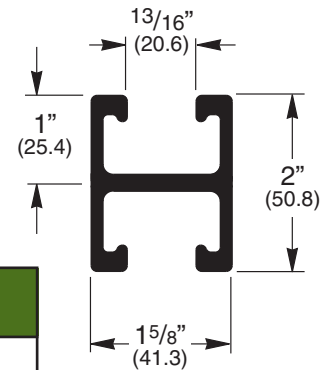
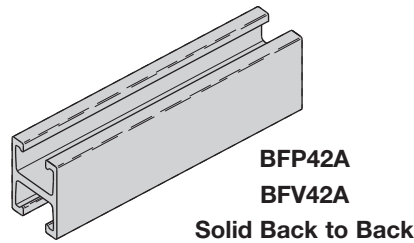
Part No.	Material	Description	Color	Weight	
				Lbs./ft.	kg/m
BFP42*	Polyester Resin	Solid Back	Gray	.48	(.71)
BFV42*	Vinyl Ester Resin	Solid Back	Beige	.48	(.71)
BFP42H <sup>17/8</sup> *	Polyester Resin	Holes in Back	Gray	.46	(.68)
BFV42H <sup>17/8</sup> *	Vinyl Ester Resin	Holes in Back	Beige	.46	(.68)
BFP42SH*	Polyester Resin	Slots in Back	Gray	.47	(.70)
BFV42SH*	Vinyl Ester Resin	Slots in Back	Beige	.47	(.70)



\* Insert -10 for 10'-0" (3.05 m) length or -20 for 20'-0" (6.09 m) length

## BFP42A BFV42A

- Channel lengths: 10 Ft. (3.05 m) and 20 Ft. (6.09 m)
- Fiberglass strut meets specification of ASTM D-4385 Levels III and IV.



Part No.	Material	Description	Color	Weight	
				Lbs./ft.	kg/m
BFP42A*	Polyester Resin	Back To Back	Gray	.85	(1.26)
BFV42A*	Vinyl Ester Resin	Back To Back	Beige	.85	(1.26)

\* Insert -10 for 10'-0" (3.05 m) length or -20 for 20'-0" (6.09 m) length

**WARNING:** Appropriate protective clothing and respiratory protection device should be worn when field cutting or grinding fiberglass.

Published design loads on page 187 are based on usage at 70°F (21°C) and must be reduced for continuous exposure to higher temperatures. Refer to the chart below for high temperature applications.

### Field Cutting Sealant Kits

**RSK010** Pint Sealing Kit (473 cm<sup>3</sup>) includes sealant and brush applicator

- Seals exposed fibers after field cutting.
- UV resistant

Temperature	Design Load Multiplier
75°F (24°C)	100%
100°F (38°C)	90%
125°F (52°C)	78%
150°F (66°C)	68%
175°F (79°C)	60%
200°F (93°C)	52%

Reference page 182 for general fitting specifications.

## BEAM LOADING DATA FOR GLASS REINFORCED POLYESTER RESIN

Beam Span		Part No.	Maximum Allowable Beam Load		Deflection @ Maximum Allowable Beam Load		Allowable Load @ Deflection =			
							1/240 Span		1/360 Span	
in.	mm		Lbs.	kN	in.	mm	Lbs.	kN	Lbs.	kN
12"	(305)	<b>BFP42</b>	841	(3.74)	0.104	(2.64)	403	(1.79)	269	(1.19)
		<b>BFP42A</b>	2325	(10.34)	0.060	(1.52)	1948	(8.66)	1299	(5.78)
24"	(609)	<b>BFP42</b>	420	(1.87)	0.417	(10.59)	100	(0.44)	66	(0.29)
		<b>BFP42A</b>	1161	(5.16)	0.239	(6.07)	486	(2.16)	323	(1.43)
36"	(914)	<b>BFP42</b>	279	(1.24)	0.938	(23.82)	43	(0.19)	29	(0.13)
		<b>BFP42A</b>	773	(3.44)	0.537	(13.64)	214	(0.95)	142	(0.63)
48"	(1219)	<b>BFP42</b>	208	(0.92)	1.667	(42.34)	23	(0.10)	15	(0.06)
		<b>BFP42A</b>	578	(2.57)	0.955	(24.26)	119	(0.53)	78	(0.34)
60"	(1524)	<b>BFP42</b>	166	(0.74)	2.604	(66.14)	14	(0.06)	8	(0.03)
		<b>BFP42A</b>	461	(2.05)	1.491	(37.87)	74	(0.33)	48	(0.21)
72"	(1829)	<b>BFP42</b>	137	(0.61)	3.750	(95.25)	8	(0.03)	5	(0.02)
		<b>BFP42A</b>	383	(1.70)	2.148	(54.56)	49	(0.22)	31	(0.14)
96"	(2438)	<b>BFP42</b>	101	(0.45)	6.667	(169.34)	3	(0.01)	–	–
		<b>BFP42A</b>	284	(1.26)	3.818	(96.98)	24	(0.10)	14	(0.04)
120"	(3048)	<b>BFP42</b>	79	(0.35)	10.417	(264.59)	–	–	–	–
		<b>BFP42A</b>	224	(0.99)	5.966	(151.53)	11	(0.05)	5	(0.02)

## BEAM LOADING DATA FOR GLASS REINFORCED VINYL ESTER RESIN

Beam Span		Part No.	Maximum Allowable Beam Load		Deflection @ Maximum Allowable Beam Load		Allowable Load @ Deflection =			
							1/240 Span		1/360 Span	
in.	mm		Lbs.	kN	in.	mm	Lbs.	kN	Lbs.	kN
12"	(305)	<b>BFV42</b>	988	(4.39)	0.112	(2.84)	440	(1.96)	293	(1.30)
		<b>BFV42A</b>	2865	(12.74)	0.063	(1.60)	2278	(10.13)	1518	(6.75)
24"	(609)	<b>BFV42</b>	493	(2.19)	0.448	(11.38)	109	(0.48)	73	(0.32)
		<b>BFV42A</b>	1431	(6.36)	0.252	(6.40)	568	(2.52)	378	(1.68)
36"	(914)	<b>BFV42</b>	328	(1.46)	1.009	(25.63)	48	(0.21)	31	(0.14)
		<b>BFV42A</b>	953	(4.24)	0.566	(14.37)	251	(1.11)	166	(0.74)
48"	(1219)	<b>BFV42</b>	245	(1.09)	1.793	(45.54)	26	(0.11)	16	(0.07)
		<b>BFV42A</b>	713	(3.17)	1.006	(25.55)	139	(0.62)	92	(0.41)
60"	(1524)	<b>BFV42</b>	195	(0.87)	2.802	(71.17)	15	(0.06)	9	(0.04)
		<b>BFV42A</b>	569	(2.53)	1.572	(39.93)	87	(0.38)	57	(0.25)
72"	(1829)	<b>BFV42</b>	162	(0.72)	4.035	(102.49)	9	(0.04)	5	(0.02)
		<b>BFV42A</b>	473	(2.10)	2.264	(57.50)	58	(0.26)	37	(0.16)
96"	(2438)	<b>BFV42</b>	120	(0.53)	7.173	(182.19)	3	(0.01)	1	(0.004)
		<b>BFV42A</b>	351	(1.56)	4.025	(102.23)	29	(0.13)	17	(0.07)
120"	(3048)	<b>BFV42</b>	94	(0.42)	11.207	(284.66)	–	–	–	–
		<b>BFV42A</b>	278	(1.23)	6.288	(159.71)	14	(0.06)	7	(0.03)

### Loading Information

#### Beam Loads:

The above charts list the total allowable uniform load for various simple spans based on a minimum safety factor of 2. If the load is concentrated at center span, multiply the load from the above charts by 0.5 and the corresponding deflection by 0.8.

All beams should be supported in a manner to prevent rotation at supports. Long, deep beams should be tied between supports to prevent twist.

For channels with holes or slots use 90% of recommended load shown in channel loading chart.

Reference page 182 for general fitting specifications.