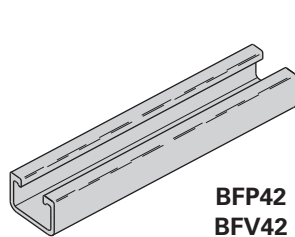


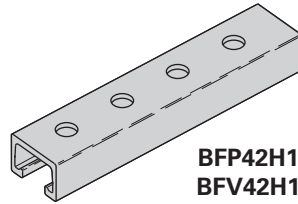
# Fiberglass

## BFP42 thru BFV42SH

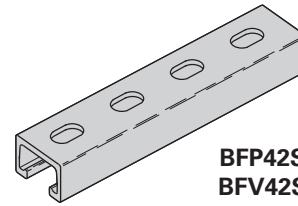
- Channel lengths: 10 Ft. (3.05 m) and 20 Ft. (6.09 m)
- Fiberglass strut meets specification of ASTM D-4385 Levels III and IV.



**BFP42  
BFV42  
Solid Back**

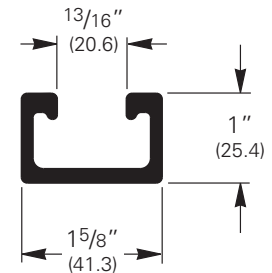


**BFP42H17/8  
BFV42H17/8**  
9/16" (14.3) holes  
17/8" (47.6) on centers



**BFP42SH  
BFV42SH**  
9/16" (14.3) x 7/8" (22.2) slots  
2" (50.8) on centers

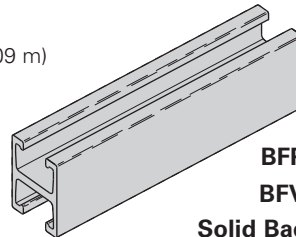
| Part No.           | Material          | Description   | Color | Weight<br>Lbs./ft. kg/m |       |
|--------------------|-------------------|---------------|-------|-------------------------|-------|
| <b>BFP42*</b>      | Polyester Resin   | Solid Back    | Gray  | .48                     | (.71) |
| <b>BFV42*</b>      | Vinyl Ester Resin | Solid Back    | Beige | .48                     | (.71) |
| <b>BFP42H17/8*</b> | Polyester Resin   | Holes in Back | Gray  | .46                     | (.68) |
| <b>BFV42H17/8*</b> | Vinyl Ester Resin | Holes in Back | Beige | .46                     | (.68) |
| <b>BFP42SH*</b>    | Polyester Resin   | Slots in Back | Gray  | .47                     | (.70) |
| <b>BFV42SH*</b>    | 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

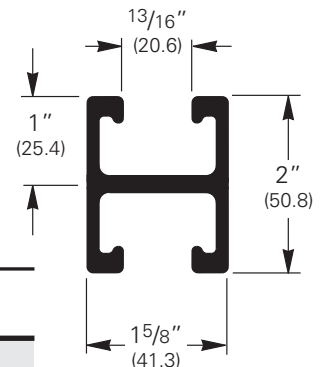
## BFP42A BFV42A

- 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.



**BFP42A  
BFV42A  
Solid Back to Back**

| Part No.       | Material          | Description  | Color | Weight<br>Lbs./ft. kg/m |        |
|----------------|-------------------|--------------|-------|-------------------------|--------|
| <b>BFP42A*</b> | Polyester Resin   | Back To Back | Gray  | .85                     | (1.26) |
| <b>BFV42A*</b> | 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

## 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

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.

| 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%                    |

APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION DEVICE SHOULD BE WORN WHEN FIELD CUTTING OR GRINDING FIBERGLASS.

Reference page 183 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 = |        |            |        |
|-----------|--------|----------|-----------------------------|---------|------------------------------------------|----------|-------------------------------|--------|------------|--------|
| in.       | mm     |          | Lbs.                        | kN      | in.                                      | mm       | 1/240 Span                    |        | 1/360 Span |        |
|           |        |          |                             |         |                                          |          | Lbs.                          | kN     | Lbs.       | kN     |
| 12"       | (305)  | BFP42    | 841                         | (3.74)  | 0.104                                    | (2.64)   | 403                           | (1.79) | 269        | (1.19) |
|           |        | BFP42A   | 2325                        | (10.34) | 0.060                                    | (1.52)   | 1948                          | (8.66) | 1299       | (5.78) |
| 24"       | (609)  | BFP42    | 420                         | (1.87)  | 0.417                                    | (10.59)  | 100                           | (0.44) | 66         | (0.29) |
|           |        | BFP42A   | 1161                        | (5.16)  | 0.239                                    | (6.07)   | 486                           | (2.16) | 323        | (1.43) |
| 36"       | (914)  | BFP42    | 279                         | (1.24)  | 0.938                                    | (23.82)  | 43                            | (0.19) | 29         | (0.13) |
|           |        | BFP42A   | 773                         | (3.44)  | 0.537                                    | (13.64)  | 214                           | (0.95) | 142        | (0.63) |
| 48"       | (1219) | BFP42    | 208                         | (0.92)  | 1.667                                    | (42.34)  | 23                            | (0.10) | 15         | (0.06) |
|           |        | BFP42A   | 578                         | (2.57)  | 0.955                                    | (24.26)  | 119                           | (0.53) | 78         | (0.34) |
| 60"       | (1524) | BFP42    | 166                         | (0.74)  | 2.604                                    | (66.14)  | 14                            | (0.06) | 8          | (0.03) |
|           |        | BFP42A   | 461                         | (2.05)  | 1.491                                    | (37.87)  | 74                            | (0.33) | 48         | (0.21) |
| 72"       | (1829) | BFP42    | 137                         | (0.61)  | 3.750                                    | (95.25)  | 8                             | (0.03) | 5          | (0.02) |
|           |        | BFP42A   | 383                         | (1.70)  | 2.148                                    | (54.56)  | 49                            | (0.22) | 31         | (0.14) |
| 96"       | (2438) | BFP42    | 101                         | (0.45)  | 6.667                                    | (169.34) | 3                             | (0.01) | —          | —      |
|           |        | BFP42A   | 284                         | (1.26)  | 3.818                                    | (96.98)  | 24                            | (0.10) | 14         | (0.04) |
| 120"      | (3048) | BFP42    | 79                          | (0.35)  | 10.417                                   | (264.59) | —                             | —      | —          | —      |
|           |        | BFP42A   | 224                         | (0.99)  | 5.966                                    | (151.53) | 11                            | (0.05) | 5          | (0.02) |

## Beam Loading Data for Glass Reinforced Vinyl Ester Resin

| Beam<br>Span |        | Part<br>No. | Maximum<br>Allowable<br>Beam Load |         | Deflection<br>@ Maximum<br>Allowable<br>Beam Load |          | Allowable Load @ Deflection = |         |            |         |
|--------------|--------|-------------|-----------------------------------|---------|---------------------------------------------------|----------|-------------------------------|---------|------------|---------|
|              |        |             | Lbs.                              | kN      | in.                                               | mm       | 1/240 Span                    |         | 1/360 Span |         |
| in.          | mm     |             |                                   |         |                                                   |          | Lbs.                          | kN      | Lbs.       | kN      |
| 12"          | (305)  | BFV42       | 988                               | (4.39)  | 0.112                                             | (2.84)   | 440                           | (1.96)  | 293        | (1.30)  |
|              |        | BFV42A      | 2865                              | (12.74) | 0.063                                             | (1.60)   | 2278                          | (10.13) | 1518       | (6.75)  |
| 24"          | (609)  | BFV42       | 493                               | (2.19)  | 0.448                                             | (11.38)  | 109                           | (0.48)  | 73         | (0.32)  |
|              |        | BFV42A      | 1431                              | (6.36)  | 0.252                                             | (6.40)   | 568                           | (2.52)  | 378        | (1.68)  |
| 36"          | (914)  | BFV42       | 328                               | (1.46)  | 1.009                                             | (25.63)  | 48                            | (0.21)  | 31         | (0.14)  |
|              |        | BFV42A      | 953                               | (4.24)  | 0.566                                             | (14.37)  | 251                           | (1.11)  | 166        | (0.74)  |
| 48"          | (1219) | BFV42       | 245                               | (1.09)  | 1.793                                             | (45.54)  | 26                            | (0.11)  | 16         | (0.07)  |
|              |        | BFV42A      | 713                               | (3.17)  | 1.006                                             | (25.55)  | 139                           | (0.62)  | 92         | (0.41)  |
| 60"          | (1524) | BFV42       | 195                               | (0.87)  | 2.802                                             | (71.17)  | 15                            | (0.06)  | 9          | (0.04)  |
|              |        | BFV42A      | 569                               | (2.53)  | 1.572                                             | (39.93)  | 87                            | (0.38)  | 57         | (0.25)  |
| 72"          | (1829) | BFV42       | 162                               | (0.72)  | 4.035                                             | (102.49) | 9                             | (0.04)  | 5          | (0.02)  |
|              |        | BFV42A      | 473                               | (2.10)  | 2.264                                             | (57.50)  | 58                            | (0.26)  | 37         | (0.16)  |
| 96"          | (2438) | BFV42       | 120                               | (0.53)  | 7.173                                             | (182.19) | 3                             | (0.01)  | 1          | (0.004) |
|              |        | BFV42A      | 351                               | (1.56)  | 4.025                                             | (102.23) | 29                            | (0.13)  | 17         | (0.07)  |
| 120"         | (3048) | BFV42       | 94                                | (0.42)  | 11.207                                            | (284.66) | —                             | —       | —          | —       |
|              |        | BFV42A      | 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 183 for general fitting specifications.