**FIBERGLAS™ REBAR**

**BENT BAR DETAILING GUIDE**

**G1 90° Bent (Steel 2, 17)**
- Part example: BRBX-90-A-B
- X for all parts refers to the imperial bar diameter
- Max Legs: A ≤ 80", B may be up to 80"
- If A ≤ 50", B may be up to 95"
- If A ≤ 30", B may be up to 105"

**G2 <90° Bent (Steel 3)**
- Max Total Linear Length: Is typically 110"
- Part example: BRBX-(Angle)-A-B

**G3 >90° Bent (Steel 13, 21, 30)**
- Max Total Linear Length: Is typically 110"

**G4 Hooked Bar (Steel 1)**
- Part example: BRBX-U-A-B-C
- Max Legs: A & C ≤ 80"
- B: 3' for #2 bar
- 4.5' for #3 through #6 bar
- 6' for #7 & #8 bar
- Note: A 90° bend with a 12 bar diameter tail is equally effective and more economical

**G5 Long Leg Bent (Steel 2, 17)**
- Max Legs: Bar comprised of sides A & B can be shapes G1, G2 or G3
- Straight bar (C) can be produced up to 60 ft long. Bars sold individually

**G6 Z Bar or Similar (Steel 8, 18, 19, 20, 24, 29)**
- Max Legs: Both bars can be shapes G1, G2 or G3. Bars sold individually

**G7 U/C Shape Bar (Steel 2/17)**
- Part example: BRBX-U-A-B-C
- Max Legs: For B ≤ 40", A & C can be up to 45° each
- For 40" ≤ B ≤ 80", A & C can be up to 40° each
- For 80" ≤ B ≤ 90", A & C can be up to 20° each

**G8 Open U (Steel 3d, 4c, 14ab, 22B)**
- Max Part Lengths: L can be up to 80"
- H can be up to 45"
  - Part example: BRBX-U*-A-B-C

**G9 Long Leg U (Steel 2/17)**
- Max Legs: Bars comprised of sides A & B and D & E can be shapes G1, G2 or G3. Straight bar (C) can be produced to length. Bars sold individually

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Closed Stirrup (Steel S3, T1, T2)

Part example: BRBX-H-(Int. Ø)-(LS)

Max Size: $6 \leq \Theta \leq 48''$

Gull Wing (Steel 3, 4, 7, 22, 23)

Max Legs: Bars comprised of sides A & B and D & E can be shapes G1, G2 or G3. Bar comprised of sides B, C & D can be shapes G7 or G8. Bars sold individually.

NOTE:
Bent bar is limited to sizes #2-#8.
Bar dimensions larger than noted may be possible. Please contact Owens Corning if you need a shape larger than what is shown here.
Bent bar shape dimensions and tolerance details are specified in ASTM D7957, ACI 440, ACI 318, and ACI 117.

Spiral (Steel SP1)

Part example: BRBX-S-(Int. Ø)-(Turns)

Max Size: $\Theta$ conforms to shape G13.
Number of turns can be up to 60.

Large Radius (Steel 9)

Max Legs: Straight bar can be produced to length. Refer to Field Forming section for Large Radius Curve allowances. Large Radius curves are field formed to shape.

Hoop (Steel T3)

Part example: BRBX-H-(Int. Ø)-(LS)

G10

Spiral (Steel SP1)

Part example: BRBX-S-(Int. Ø)-(Turns)

Max Legs: Bar comprised of sides A & B can be 

Closed Stirrup (Steel S3, T1, T2)

Max Legs: Both individual bars conform to 

Gull Wing (Steel 3, 4, 7, 22, 23)

Max Legs: Bars comprised of sides A & B and D & E can be shapes G1, G2 or G3. Bar comprised of sides B, C & D can be shapes G7 or G8. Bars sold individually.

NOTE:
Bent bar is limited to sizes #2-#8.
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Gull Wing (Steel 3, 4, 7, 22, 23)

Max Legs: Bars comprised of sides A & B and D & E can be shapes G1, G2 or G3. Bar comprised of sides B, C & D can be shapes G7 or G8. Bars sold individually.

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