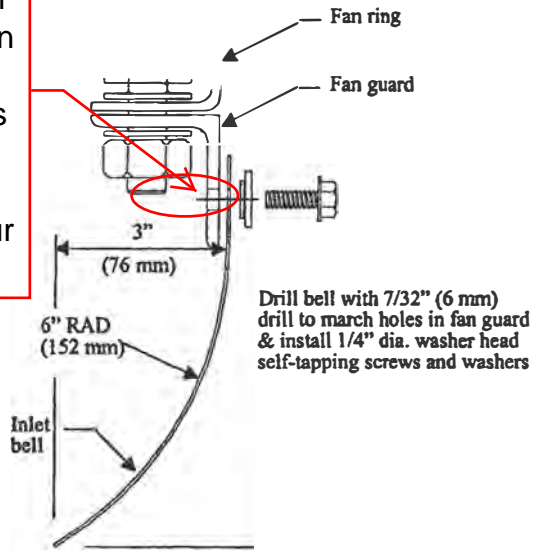


Each Inlet bell Kit comes with all the hardware shown below for normal mounting when there is a fan guard between the Inlet bell and the rotating fan. **If there is no guard**, which is typical on Engine fans make sure you add nuts to the back of each self-tapping screw for extra security. Also use lock nuts and or Loctite to prevent any Inlet bell from entering the rotating fan.

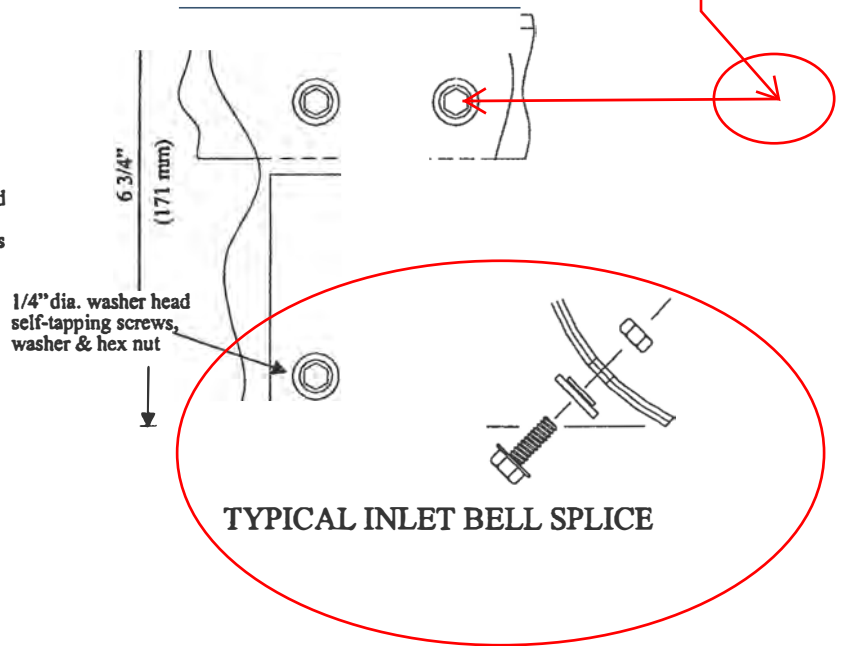
## INLET BELL INSTALLATION FOR FORCED DRAFT UNITS

The purpose of the Inlet Bell is to reduce turning losses due to the abrupt corners in fan ring. This improves air distribution efficiency.

Nuts and lock washers (and/or Loctite) required if there is no fan guard between Bell and fan. The extra nuts and lock nuts are not provided in our hardware kit.



Bolt spacing ~1 foot



TYPICAL SECTION THRU FAN RING, FAN GUARD & INLET BELL

TYPICAL INLET BELL SPLICE

### INSTALLATION

1. Mark off a line around the circumference about 1 1/4" (32 mm) from the bottom toe of the fan guard angle. This will indicate the location of the upper edge of the inlet bell.
2. Align the edge of a section with the line drawn. Using a 7/32" (6 mm) drill, drill a hole approximately 3/4" (19 mm) from the upper edge of inlet bell and about 1" (25 mm) from the end of an inlet bell section.
3. Install a 1/4" washer head self-tapping screw and washer to secure the inlet bell section to an existing fan guard hole.
4. Continue drilling holes in the inlet bell to match holes in fan guards. Continue installing screws. The last screw should be about 1" (25 mm) from the opposite end of the section. This last hole may need to be drilled through both the inlet bell and the fan guard.
5. Install the next section in the same manner. The mating ends should be butted together with no gap between them.
6. In addition to the screws installed in the fan guards, drill one hole in the lap joint of the curved section of the bell through the two mating sections. Install a 1/4" washer head self-tapping screw, washer and hex nut to secure the two sections together. (See "TYPICAL INLET BELL SPLICE" above).
7. Inlet bells will require notching or special trimming around fan guards & structure during installation. This can easily be done using a common hacksaw.

If you have any questions during installation call Nick Agius at 1-780-719-7413 or email [nickagius2014@gmail.com](mailto:nickagius2014@gmail.com) or [nick.agius@shaw.ca](mailto:nick.agius@shaw.ca)

Innovative ideas to hang Inlet bells for various applications.

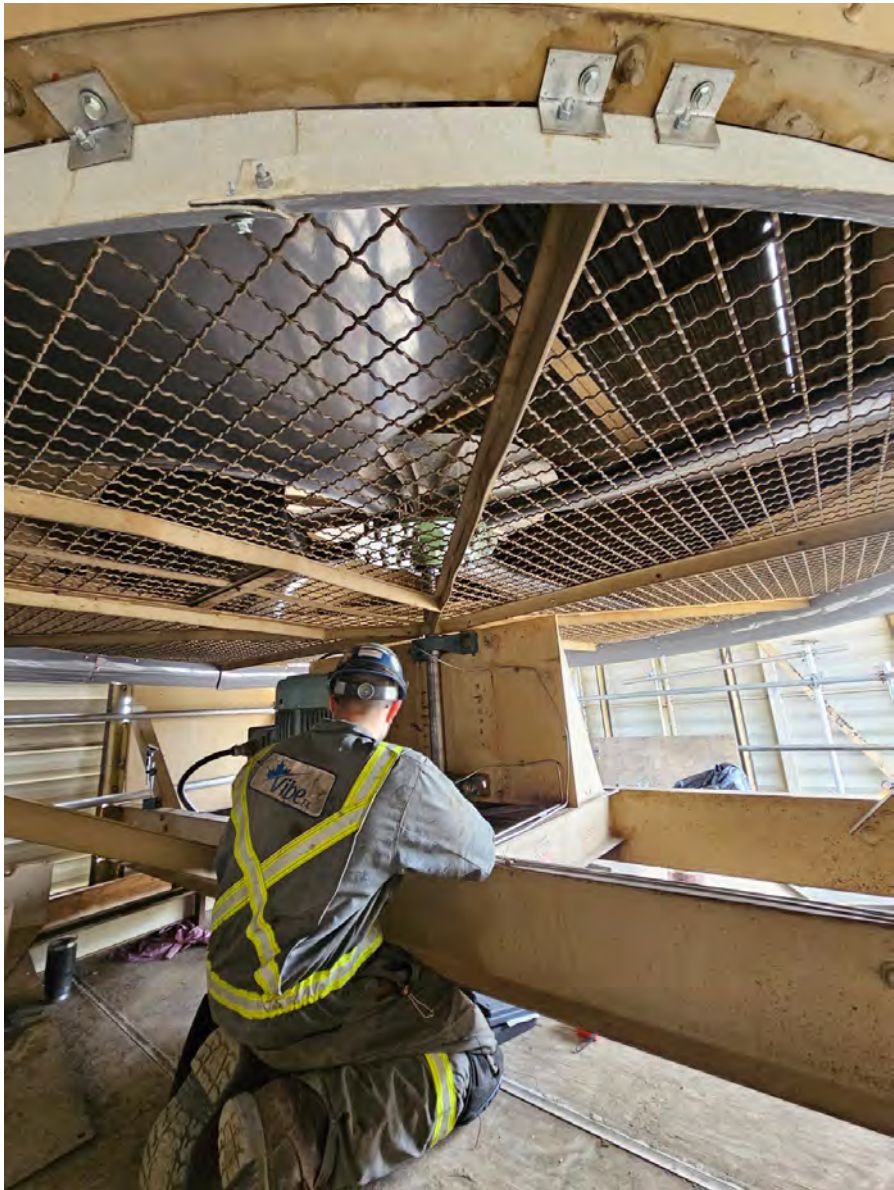


Welding small tabs is a very effective way to hang Inlet bells



A diamond hack saw is the best way to cut the fiberglass. Use something with a fine blade but don't select a wood blade. Use a Jig-saw or an air tool like this enclosed picture







When the fan guard is a bit larger than the fan ring we need to install the inlet bell on the inside of this guard not the outside as shown below.



If we install on the outside we need one extra section per kit but also it is not providing the smooth flow of air into the inlet, which is one of the main purposes on the Inlet bell. If noise reduction is the only factor then perhaps this concept is fine.



# Elliptical Inlet Bell section



Grade 8, 3/8" x 1.50 long, self-cutting Bolts, with 1/4" Nyloc Nut and two rubber backed washers. Pre-drill 7/32" drill-bit

Part No.	Thickness	Sections QTY Per kit
9ft E-inlet bell	6mm	5
10ft E-inlet bell	6mm	5
11ft E-inlet bell	6mm	6
12ft E-inlet bell	6mm	6
13ft E-inlet bell	6mm	7
14ft E-inlet bell	6mm	7
15ft E-inlet bell	6mm	7
16ft E-inlet bell	6mm	8

**Installer drill holes for bolt as needed, where needed. The chart below is a suggestion only to be sure you have enough hardware on job site**

Diameter	Sections	# of sets at each section	Bolts qty for all sections	Bolts qty at top to fan ring every 12"	Total nuts/bolts/washers per kit
8 ft or smaller	4	3	12	25	37
9-10ft	5	4	20	30	50
11-12ft	6	4	24	37	61
13-14-15ft	7	5	35	47	82
16ft	8	6	48	50	98



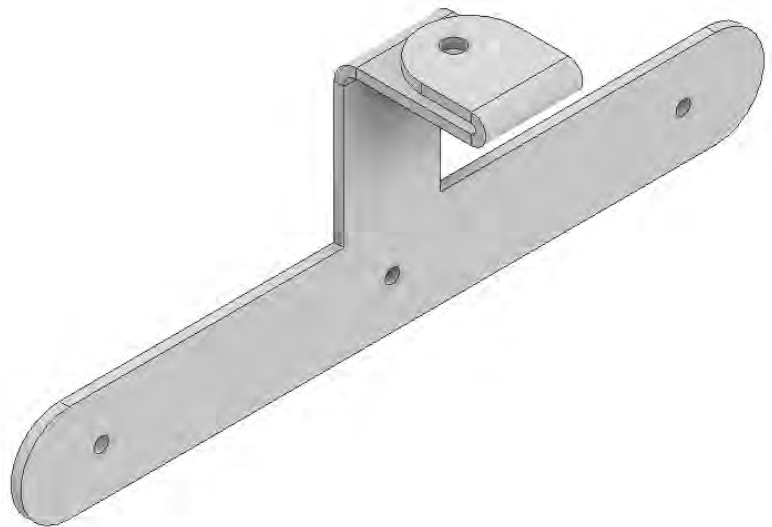
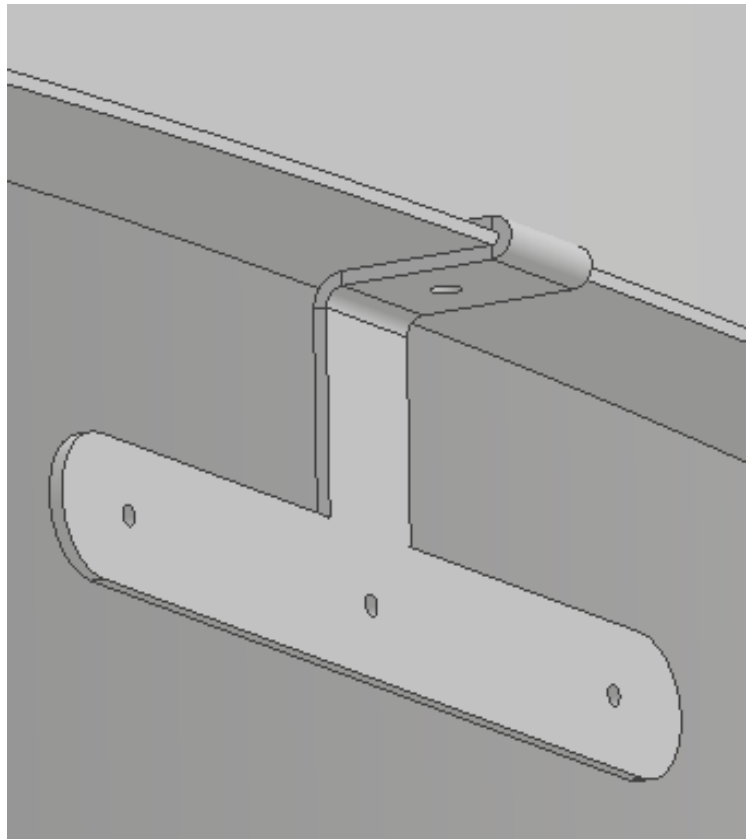
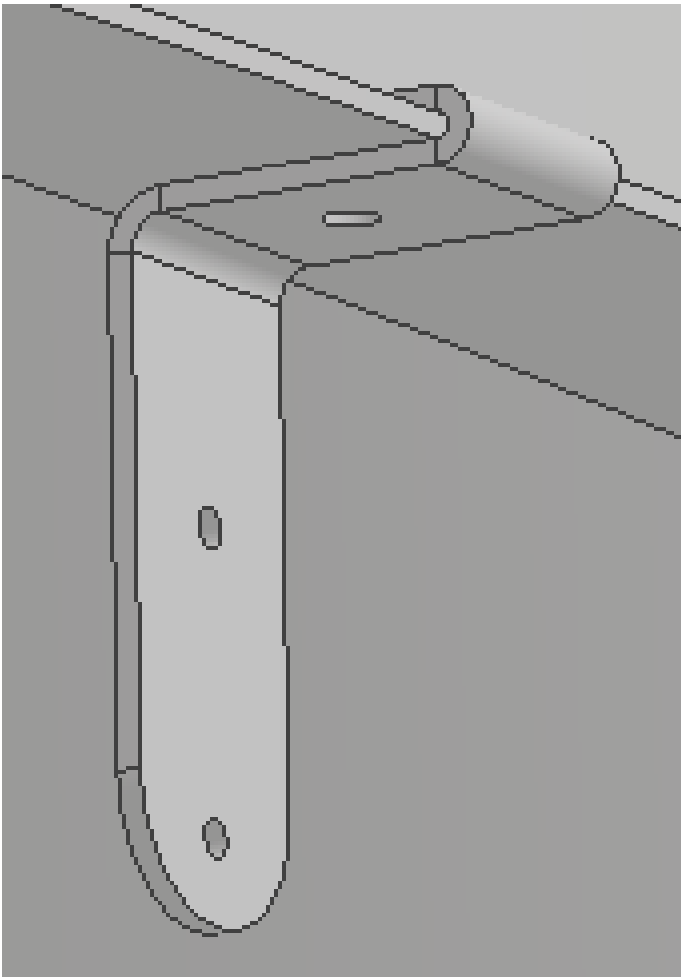
Bolts every 12" up top

# of sets at each section joint

**13' E-Bell™ installation**

**Installer to cut Fiberglass E-bell to fit around any objects or obstructions in the way. If two E-bells sit too close and touch cut each on the same for equal flow to both fans.**

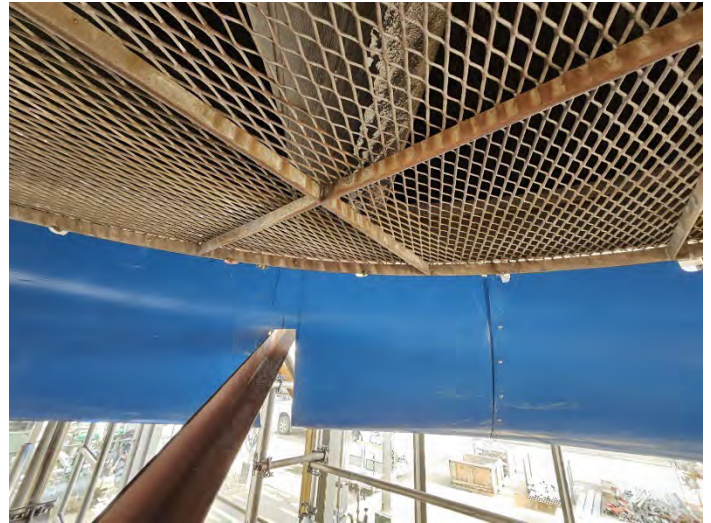
# Bracket ideas for E-Bell™ installation



## Best idea to patch larger cut-outs for beams

Our plan to test is to get rolls of 6" – 10" Wide flashing to cover up the large cuts for struts and bracing. For aesthetics, we would leave the flashing width the same even if the cut out below is 3-4". Drill and pop rivet each piece on.

As pictured below, the flashing would be fastened right underneath the strut and run the length of the inlet bell. Rivets at the top middle and bottom or as many needed to keep it flush with the bell. We might be able to source blue flashing, not sure if we could get a color match.



Thanks

Bryce Harper

**Operations Manager**

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**This clever idea will work if the beams line up near each section joint so no flashing would be required.**

