EVERGREEN TELEMETRY

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SKIRT TOP FRAME DESIGN

March 26, 2016

GENERAL

Our skirt top frames are constructed from high-quality aluminum 6063 channel with a bright finish. Weight is minimized by using 3/8" x 3/8" x 1/16" channel. All corners are welded for a user feeling that is stiff, not wobbly.

For foam we use a high quality neoprene variety. For rehabilitating frames in the field, balancers can find the material here: http://www.mcmaster.com/#8694k138/=11pi8t3. First, scrape the old material off and remove the old adhesive using Goof-Off or a similar product.

ONE-PIECE WELDED FRAMES

The following frames are popular sizes that have one-piece welded construction.

CH-15D, 15 INCH DIAMETER (nominal) CAPTURE HOOD

2 x 2', 1x2'

CH-8D, 8 INCH DIAMETER (nominal) CAPTURE HOOD

14" x 14", 1 x 2', 2 x 2'

TOP FRAME ASSEMBLY FOR LARGE SKIRTS

The new frame assembly for large skirts is stiffer and lighter than the previous generation. The corners are permanently welded for strength and stiffness—there are no moving parts to fail. There are fewer components than in the traditional system, and they are easier to place and connect. For all junctions, there is a common type of connecting bridge.

SKIRT SIZES 1X4', 1X5', and 2X4' (nominal)

Four corner pieces make up the fundamental form, a 1x4' frame. There is a 12" extension segment for converting the fundamental form to a 2x4' (install extension segments at the two ends), or a 1x5' (install the extension segments at the sides).

Note that we followed industry conventions in sizing these frames. Actual sizes were selected long ago to match certain standard diffusers, and are:
1x4' (13 x 47" OD) (12 x 46" ID), 1x5' (13 x 59" OD) (12 x 58" ID)
2x4' (25 x 47" OD) (24 x 46" ID)

SIZES 6" X 36" and 6" X 48"

The fundamental form is 6" x 36" (inside dimensions). This consists of two identical 6" x 18" pieces that are connected via brackets on the long sides. The two corners at each end are welded. For 6" x 48", a standard 12" extension piece is inserted along each side.

At each junction the connecting bridge fits onto four threaded inserts. Only the two closest to the junction need be secured by nuts—the other two function as guide pins. In addition to the traditional brass knurled nut, the user has the option of plastic wing nuts. Lock washers are provided to help keep the nuts from loosening.