Matl: Alum. 6061 T651

Part requires multi-step process.
1) Machine all surfaces and holes leaving 0.030inch extra material.
2) Deliver part to Cornell for stress relief process (Liquid Nitrogen cold shock).
3) Machine all surfaces and holes leaving 0.010inch extra material.
4) Deliver part to Cornell for stress relief process (Liquid Nitrogen cold shock).
5) Machine all surfaces and holes to final specifications.

Technical questions, including clarifications and proposals for exceptions, are to be directed to
Dan Peterson
Senior Physicist, Laboratory for Elementary-Particle Physics, Cornell University
607-255-8784
dpp@lepp.cornell.edu
This sheet shows profile dimensions. "Outside", "Inside", and "profile" views are shown.
Dowel holes 'B' have tolerance +/- 0.002 inch, within a frame defined by the hole locations B1, B11, B21, B31.

Specification for holes in the flange area.
Specification for longitudinal threaded holes in the stiffening flange (The "fun holes")
Specification for light insert holes
Specification for gas holes

- Ø 'R' (0.399) Dr. Thru
- 1/8 - 27 NPT Tap

1/8 - 27 NPT PIPE TAP
6 PLCs

560,000 mm
[22.047 in]

50,000 mm
[1.969 in]

280,000 mm
[11.024 in]

51,000 mm
[2.004 in]

315,000 mm
[12.402 in]
Specification for holes to mount field cage termination plates
This sheet shows hole to accept HV connectors for the Field Cage Termination.
**Note:** This is the Bounding Box. It is not a part for construction. It is an abstract geometrical shape, located on the Endplate, within which the module and all mountings for the module are defin.

*This dimensions includes the small, non-zero, offset of the radii of curvature needed to keep the model adaptive.*

**Scale:** 1 / 2

- **Dimensions:**
  - R1430.000 mm [56.299 in]
  - R1600.000 mm [62.992 in]
  - R170.001 mm [6.693 in]
  - 8.387° REF
This shows the locations of seven (7) replications of the Bounding Box on the Endplate.
This shows the details of features that are placed within each Bounding Box.
Dowel hole locations and cut-out features have tolerance +/- 0.001 inch within the Bounding Box. Dowel hole locations have tolerance +/- 0.002 within a frame defined by holes B1, B11, B21, B31. (see sheet 3)

This sheet shows dowel holes that are defined within the Bounding Box. Global locations are shown here for reference and certification measurements.
Dowel hole locations and cut-out features have tolerance +/- 0.001 inch within the Bounding Box.
Dowel hole locations have tolerance +/- 0.002 within a frame defined by holes B1, B11, B21, B31.

This sheet shows certification measurements. These measurements are locally defined within the Bounding Box.