

Coordinate units are given in centimeters.

Origin (0,0,0): on the pad plane surface, upstream edge, L/R centered

Target Location: (0.00, -21.33, -3.52)

Center of the SAMURAI Magnet: (0.00, -21.15, 66.31)

Definition:

- Z: center of SAMURAI bolt circle
(94.00cm downstream of inner face of upstream wall)
- X: center of SAMURAI magnet & chamber
- Y: halfway between floor/ceiling of SAMURAI chamber

Upstream inner wall of SAMURAI chamber: Z = -27.69

Pad Plane Corners:

- (-43.20, 0.00, 0.00)
- (43.20, 0.00, 0.00)
- (-43.20, 0.00, 134.40)
- (43.20, 0.00, 134.40)

Field Cage Corners:

- These will technically be outside the true volume.
 - This is because the FC has rounded corners.
- (-48.35, 0.09, 0.00)
 - (48.35, 0.09, 0.00)
 - (-48.35, -51.29, 0.00)
 - (48.35, -51.29, 0.00)
 - (-48.35, 0.09, 144.70)
 - (48.35, 0.09, 144.70)
 - (-48.35, -51.29, 144.70)
 - (48.35, -51.29, 144.70)

Enclosure Corners:

- These will technically be outside the gas volume.
 - The faces of this box the inner faces of the enclosure panels.
 - The angle-iron frame would cut into this volume at the edges.
- (-73.87, 0.09, -26.42)
 - (73.87, 0.09, -26.42)
 - (-73.87, -53.84, -26.42)
 - (73.87, -53.84, -26.42)
 - (-73.87, 0.09, 174.56)
 - (73.87, 0.09, 174.56)
 - (-73.87, -53.84, 174.56)
 - (73.87, -53.84, 174.56)

Top Plate Corners:

- (-74.93, 0.09, -27.69)
- (-74.93, 2.00, -27.69)
- (74.93, 0.09, -27.69)
- (74.93, 2.00, -27.69)
- (-74.93, 0.09, 175.83)
- (-74.93, 2.00, 175.83)
- (74.93, 0.09, 175.83)
- (74.93, 2.00, 175.83)