

Gap for services:
Copper 2.42%
Insulation (e.g. PUR or EPDM)
11.71%
Connector - Thermoplastic 1.04%
Stainless Steel 316 0.68%
Air 84.15%

Blue line indicates
the envelope

Inner and outer radius of each
layer can be found in:
EDMS 2504567

Z	R
3188.5	1363.1
3188.5	1275.5
3145	1275.5
2967.7	1241.7

ETL Envelope
coordinates
indicated in
orange

Z	R
3066.7	1197.2
3066.7	300
2967.7	300

See B-B

$\eta = 1.52$
 $\eta = 2.02$
 $\eta = 2.82$
 $\eta = 3.2$

ETL ENVELOPE
Moderator
support
envelope

Silicon

CEE

Silicon

CE-H

Scintillator

MEO
(envelope)

WEDGE +
INSULATION
(envelope)

ME1/1 Brackets

More information
regarding ME0
chambers and
Shielding envelopes
can be found:

CDD Number:
CMSEG_0002
St Number:
ST1217856_01

Flexible ring
ME0 Radiation shield
envelope

YE1 Inner Cylinder

Z	R
5235.9	448.4

Thermal screen external
envelope indicated in pink

Center of Gravity

(the weight of all drawn components taken
into account, except weight of the services
and YE1 inner cylinder)

TOTAL MASS ~ 220 tonnes

(all the interfaces' weight seen on the drawing taken into
account except weight of the services and YE1 inner cylinder)

CEE (support, cassettes, backplate): ~22000 [kg]
CEH (Absorbers 2-22, wedges, backflange, flexible ring, no
cassettes): ~170000 [kg]
CEH Cassettes: ~20300 [kg]
ME0: ~2300 [kg]
Thermal Screen: ~ 2000 [kg]
PM: ~550 [kg]
ETL: ~450 [kg]

Z	R
4565.6	2624.6

Z	R
4525.6	2713

Z	R
5262	2713

Z	R
3839.7	1806.3

Z	R
3877.5	1735.2

Z	R
3621.8	1646.7

Z	R
3210.5	1523.3

Z	R
3188.5	1580.9

Z	R
4429	364.3

Z	R
4429	265

Z	R
5262	364.3

Z	Y
4573.8	-2.6

Z	R
3695.8	313.6

Z	R
4107.3	383.6

Z	R
4378.7	448.4

Z	R
3695.8	285

Z	R
4107.3	313.6

Z	R
4378.7	383.6

Z	R
2967.7	265

Z	R
2967.7	285