

BCAL Module Dimensions and Weights

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No of modules

48

| Basic Dimensions (cm) | | | |
|-----------------------|--------------|--------------|----------|
| Length | Inner radius | Outer radius | Aluminum |
| 390 | 90 | 65 | 2.54 |

| Calorimeter volume ratios | | | |
|---------------------------|-------|------|-------|
| Pb | SciFi | Glue | Total |
| 0.37 | 0.49 | 0.14 | 1 |

| Volumes (cm ³) | | | | |
|----------------------------|-------------|-------------|-------------|-------------|
| Pb | SciFi | Glue | PbSciFi | Aluminum |
| 1552322.21 | 2055778.061 | 587365.1604 | 4195465.432 | 552266.4662 |
| Total check: | | | 4195465.432 | |

| Material Densities (g/cm ³) | | | | |
|---|-------|------|---------|----------|
| Pb | SciFi | Glue | PbSciFi | Aluminum |
| 11.35 | 1.032 | 1.2 | 5 | 2.7 |

| Component masses (gr) | | | | |
|-----------------------|-------------|-------------|-------------|-------------|
| Pb | SciFi | Glue | PbSciFi | Aluminum |
| 17618857.08 | 2121562.959 | 704838.1925 | 20445258.23 | 1491119.459 |

| BCAL Mass | |
|-------------------------------|----------|
| Total Mass (kg) | 21936.38 |
| Total Mass (metric tons) | 21.94 |
| Mass per module (metric tons) | 0.457 |

Numbers do not include bolts, fasteners or other such support.