

Measurements of the Logifaces blocks

Measurements of the blocks in **standard units**

Block	top edges	area of the top face	areas of the vertical faces	total surface area	volume
111	4, 4, 4	$4\sqrt{3} \approx 6.928$	4, 4, 4	$12 + 8\sqrt{3} \approx 25.86$	$4\sqrt{3} \approx 6.928$
222	4, 4, 4	$4\sqrt{3} \approx 6.928$	8, 8, 8	$24 + 8\sqrt{3} \approx 37.86$	$2 \times 4\sqrt{3} \approx 13.856$
333	4, 4, 4	$4\sqrt{3} \approx 6.928$	12, 12, 12	$36 + 8\sqrt{3} \approx 49.86$	$3 \times 4\sqrt{3} \approx 20.785$
112	$4, \sqrt{17}, \sqrt{17}$	$2\sqrt{13} \approx 7.211$	4, 6, 6	$16 + 4\sqrt{3} + 2\sqrt{13} \approx 30.14$	$\frac{4}{3} \times 4\sqrt{3} \approx 9.24$
122	$4, \sqrt{17}, \sqrt{17}$	$2\sqrt{13} \approx 7.211$	6, 6, 8	$20 + 4\sqrt{3} + 2\sqrt{13} \approx 34.14$	$\frac{5}{3} \times 4\sqrt{3} \approx 11.55$
223	$4, \sqrt{17}, \sqrt{17}$	$2\sqrt{13} \approx 7.211$	8, 10, 10	$28 + 4\sqrt{3} + 2\sqrt{13} \approx 42.14$	$\frac{7}{3} \times 4\sqrt{3} \approx 16.17$
233	$4, \sqrt{17}, \sqrt{17}$	$2\sqrt{13} \approx 7.211$	10, 10, 12	$32 + 4\sqrt{3} + 2\sqrt{13} \approx 46.14$	$\frac{8}{3} \times 4\sqrt{3} \approx 18.48$
113	$4, \sqrt{20}, \sqrt{20}$	8	4, 8, 8	$20 + 4\sqrt{3} + 8 \approx 34.93$	$\frac{5}{3} \times 4\sqrt{3} \approx 11.55$
133	$4, \sqrt{20}, \sqrt{20}$	8	8, 8, 12	$28 + 4\sqrt{3} + 8 \approx 42.93$	$\frac{7}{3} \times 4\sqrt{3} \approx 16.17$
123	$\sqrt{17}, \sqrt{17}, \sqrt{20}$	$2\sqrt{15} \approx 7.746$	6, 8, 10	$24 + 4\sqrt{3} + 2\sqrt{15} \approx 38.67$	$2 \times 4\sqrt{3} \approx 13.86$
132	$\sqrt{17}, \sqrt{17}, \sqrt{20}$	$2\sqrt{15} \approx 7.746$	6, 8, 10	$24 + 4\sqrt{3} + 2\sqrt{15} \approx 38.67$	$2 \times 4\sqrt{3} \approx 13.86$

Measurements of the blocks according to their **real lengths**:

Block	top edges (cm)	area of the top face (cm ²)	areas of the vertical faces (cm ²)	total surface area (cm ²)	volume (cm ³)
111	5, 5, 5	10.83	6.25, 6.25, 6.25	40.41	13.54
222	5, 5, 5	10.83	12.5, 12.5, 12.5	59.16	27.08
333	5, 5, 5	10.83	18.75, 18.75, 18.75	77.91	40.62
112	5, 5.15, 5.15	11.27	6.25, 9.38, 9.38	47.11	18.05
122	5, 5.15, 5.15	11.27	9.38, 9.38, 12.5	53.36	22.56
223	5, 5.15, 5.15	11.27	12.5, 15.6, 15.6	65.8	31.59
233	5, 5.15, 5.15	11.27	15.6, 15.6, 18.75	72.05	36.11
113	5, 5.6, 5.6	12.5	6.25, 12.5, 12.5	54.58	22.56
133	5, 5.6, 5.6	12.5	12.5, 12.5, 18.75	67.08	31.59
123	5.15, 5.15, 5.6	12.1	9.38, 12.5, 15.6	60.41	27.08
132	5.15, 5.15, 5.6	12.1	9.38, 12.5, 15.6	60.41	27.08

Please note that approximation errors can occur because of rounding or measurement errors.