

SITE PRACTICE AND TROUBLESHOOTING DIMENSIONS AND TOLERANCES

The tolerance is the difference between the stated Brick size and the average actual size.

QUICK GUIDE TO MEAN SIZE TOLERANCES FOR STANDARD BRICK DIMENSIONS.

Declared Size mm	T1 Lower & upper limits	Tolerances mm	T2 Lower & upper limits	T1 Lower & upper limits	Tolerances mm
40	37-43	±3	38-42	±2	Deviation in mm declared by the manufacturer. (may be wider or closer than the other categories).
50	47-53	±3	48-52	±2	
65	62-68	±3	63-67	±2	
68	65-71	±3	66-70	±2	
73	70-76	±3	71-75	±2	
80	76-84	±4	78-82	±2	
90	86-94	±4	88-92	±2	
102	98-106	±4	99-105	±3	
190	184-196	±6	186-194	±4	
215	209-221	±6	211-219	±4	
225	219-231	±6	221-229	±4	
227	221-233	±6	223-231	±4	
290	283-297	±7	286-294	±4	

On construction sites, should a concern be raised on size and to assess whether bricks conform to the quoted tolerance, first establish which tolerance the product has been supplied to.

Sample 10 bricks by randomly choosing from a consignment and taking the selection from a minimum 6 packs where possible. Remove any superfluous material, blisters or loose particles of clay adhering to each brick.

In practice, it may not be necessary to demonstrate that all dimensions are within the tolerances stated.

Place the bricks in contact with each other in a straight line upon a level, flat surface, as shown in the diagram below, ensuring that all bricks are in the same direction. DO NOT fit bricks together by alternately turning them around.

Measure the overall dimension to the nearest millimetre using a retractable steel pocket rule. Then divide the figure by 10 to give the mean value for each dimension to the nearest whole mm. Compare the figure against our stated tolerance for that product.

LENGTH ARRANGEMENT A - Faces forward (frog up if applicable).



Length measurement to nearest round mm.

Divide by 10 rounding to the nearest whole mm

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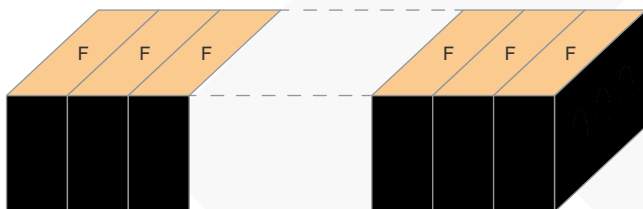
WIDTH ARRANGEMENT B - Faces forward (frog up if applicable).



measurements should be rounded to the nearest whole mm.

Width measurement to nearest round mm. Divide by 10 rounding to the nearest whole mm

WIDTH ARRANGEMENT C - Faces up (frog to one common side, if applicable).



Height measurement to nearest round mm. Divide by 10 rounding to the nearest whole mm

RANGE VALUE

The range tolerance covers the overall difference within a sample between the largest brick and the smallest and may be called upon to resolve problems with significant size variation within a consignment.

mm	40	50	65	68	73	80	90	102	140	190	215	227	290
R1	4	4	5	5	5	5	6	6	7	8	9	9	10
R1	2	2	2	3	3	3	3	3	4	4	4	5	5
Rm	A range in mm declared by the manufacturer (may be wider or closer than the other categories). Please refer to the product data sheet for quoted figure.												

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