

Please use one of the below calculation methods to establish the quantity of stepped cavity trays required for your project:

Stepped cavity trays are used where a pitched roof abuts a cavity wall. To calculate the quantity of trays required to cover a section of roof abutment **one of three measurements** must be determined, either the vertical height or the sloping or horizontal length of the abutment.

Measurement Option 1 | Vertical height ÷ Coursing Height

E.g. If the vertical height is 1.5m and the wall is 75mm brick coursing (75mm = 0.075) the equation would be $1.5 \div 0.075 = 20$.

Therefore 20 no. cavity trays are required per sloping abutment. If the sloping or horizontal distance has been measured, the tables below should be used to convert the distance (in metres) into the quantity of cavity trays. Take care to select the correct table and the correct coursing height column and the pitch of the abutting roof.

Measurement Option 2 | Sloping measurement x Coursing Height

E.g. If the sloping measurement is 2.5m, at a pitch of 30°, with a 75mm brick coursing height the equation would be $2.5 \times 6.7 = 16.75$. This would be rounded up, so 17 no. cavity trays are required.

Measurement Option 3 | Horizontal measurement x Coursing Height

E.g. If the horizontal measurement is 1.5m, at a pitch of 40°, with a 150mm stone coursing height the equation would be $1.5 \times 5.6 = 8.4$. This would be rounded down, so 8 no. cavity trays are required.



Stepped Cavity Trays Sloping Measurements:

Roof Pitch	Coursing height:		
	75mm Brick	150mm Stone	225mm Block
10°	2.3	1.2	0.8
12.5°	2.9	1.4	1.0
15°	3.5	1.7	1.2
17.5°	4.0	2.0	1.3
20°	4.6	2.3	1.5
22.5°	5.1	2.6	1.7
25°	5.6	2.8	1.9
27.5°	6.2	3.1	2.1
30°	6.7	3.3	2.2
32.5°	7.2	3.6	2.4
35°	7.7	3.8	2.6
37.5°	8.1	4.1	2.7
40°	8.6	4.3	2.9
42.5°	9.0	4.5	3.0
45°	9.4	4.7	3.1

Stepped Cavity Trays Horizontal Measurements:

Roof Pitch	Coursing height:		
	75mm Brick	150mm Stone	225mm Block
10°	2.4	1.2	0.8
12.5°	3.0	1.5	1.0
15°	3.6	1.8	1.2
17.5°	4.2	2.1	1.4
20°	4.9	2.4	1.6
22.5°	5.5	2.8	1.8
25°	6.2	3.1	2.1
27.5°	7.0	3.5	2.3
30°	7.7	3.9	2.6
32.5°	8.5	4.3	2.8
35°	9.3	4.7	3.1
37.5°	10.2	5.1	3.4
40°	11.2	5.6	3.7
42.5°	12.2	6.1	4.1
45°	13.3	6.7	4.4



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If you require further information, clarification, or to enquire about our call-off and scheduling service please get in touch with the Timloc Building Products Technical Department and we will be happy to assist.

Product datasheets are also available at: www.timloc.co.uk