

Rods & Mortar



Calculating Opening Sizes

When detailing a glass block wall, calculating the opening size correctly is the first and most important step as glass blocks cannot be cut. An opening can be calculated using a formula:

The dimension of the block plus the width of the joint multiplied by the number of glass blocks, plus one more joint width, equals minimum opening size.

If incorporating framing (such as U-channel or box section) the dimensions and tolerances need to be added to the formula measurement. If slip joints or support steel are required then this may also affect the opening size dimensions.

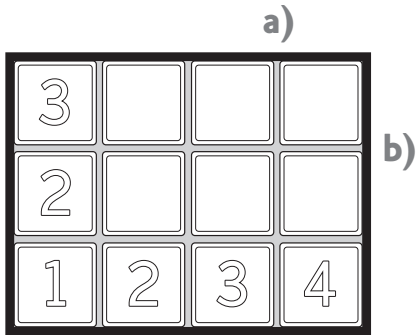
Curved Openings

For curved walls the same formula is used to calculate the opening width but only applies to the inside face of the curve (shorter radius) (e.g., 10 blocks and 11 joints is 2010mm, the same as a straight panel). The outside width dimension of the curve (longest radius) will be increased dependent on the radii as the blocks are faceted and external joint width will become wider.

The calculation for the height of straight or curved is the same.

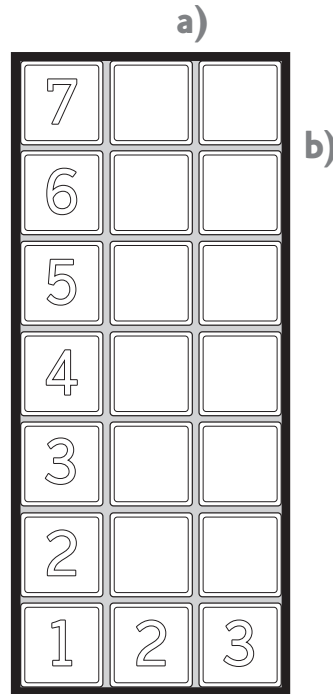
The minimum radius required for various block sizes is covered in detail in 'Curved Panels'.

Examples using 10mm joints & 190x190mm glass blocks.



190mm glass block
and 10mm joint: 200
Number of blocks a) x 4
Number of blocks b) x 3
Plus perimeter joint: 10mm

a) Minimum Opening Width: 810mm
b) Minimum Opening Height: 610mm



190mm glass block
and 10mm joint: 200
Number of blocks a) x 3
Number of blocks b) x 7
Plus perimeter joint: 10mm

a) Minimum Opening Width: 610mm
b) Minimum Opening Height: 1410mm

The expansion material is incorporated into this measurement.

Matrix

 RM1/1 (210x210)	 RM2/1 (410x210)	 RM3/1 (610x210)	 RM4/1 (810x210)	 RM5/1 (1010x210)	 RM6/1 (1210x210)	 RM7/1 (1410x210)	 RM8/1 (1610x210)	 RM9/1 (1810x210)	 RM10/1 (2010x210)	 RM11/1 (2210x210)	 RM12/1 (2410x210)
 RM1/2 (210x410)	 RM2/2 (410x410)	 RM3/2 (610x410)	 RM4/2 (810x410)	 RM5/2 (1010x410)	 RM6/2 (1210x410)	 RM7/2 (1410x410)	 RM8/2 (1610x410)	 RM9/2 (1810x410)	 RM10/2 (2010x410)	 RM11/2 (2210x410)	 RM12/2 (2410x410)
 RM1/3 (210x610)	 RM2/3 (410x610)	 RM3/3 (610x610)	 RM4/3 (810x610)	 RM5/3 (1010x610)	 RM6/3 (1210x610)	 RM7/3 (1410x610)	 RM8/3 (1610x610)	 RM9/3 (1810x610)	 RM10/3 (2010x610)	 RM11/3 (2210x610)	 RM12/3 (2410x610)
 RM1/4 (210x810)	 RM2/4 (410x810)	 RM3/4 (610x810)	 RM4/4 (810x810)	 RM5/4 (1010x810)	 RM6/4 (1210x810)	 RM7/4 (1410x810)	 RM8/4 (1610x810)	 RM9/4 (1810x810)	 RM10/4 (2010x810)	 RM11/4 (2210x810)	 RM12/4 (2410x810)
 RM1/5 (210x1010)	 RM2/5 (410x1010)	 RM3/5 (610x1010)	 RM4/5 (810x1010)	 RM5/5 (1010x1010)	 RM6/5 (1210x1010)	 RM7/5 (1410x1010)	 RM8/5 (1610x1010)	 RM9/5 (1810x1010)	 RM10/5 (2010x1010)	 RM11/5 (2210x1010)	 RM12/5 (2410x1010)
 RM1/6 (210x1210)	 RM2/6 (410x1210)	 RM3/6 (610x1210)	 RM4/6 (810x1210)	 RM5/6 (1010x1210)	 RM6/6 (1210x1210)	 RM7/6 (1410x1210)	 RM8/6 (1610x1210)	 RM9/6 (1810x1210)	 RM10/6 (2010x1210)	 RM11/6 (2210x1210)	 RM12/6 (2410x1210)
 RM1/7 (210x1410)	 RM2/7 (410x1410)	 RM3/7 (610x1410)	 RM4/7 (810x1410)	 RM5/7 (1010x1410)	 RM6/7 (1210x1410)	 RM7/7 (1410x1410)	 RM8/7 (1610x1410)	 RM9/7 (1810x1410)	 RM10/7 (2010x1410)	 RM11/7 (2210x1410)	 RM12/7 (2410x1410)
 RM1/8 (210x1610)	 RM2/8 (410x1610)	 RM3/8 (610x1610)	 RM4/8 (810x1610)	 RM5/8 (1010x1610)	 RM6/8 (1210x1610)	 RM7/8 (1410x1610)	 RM8/8 (1610x1610)	 RM9/8 (1810x1610)	 RM10/8 (2010x1610)	 RM11/8 (2210x1610)	 RM12/8 (2410x1610)
 RM1/9 (210x1810)	 RM2/9 (410x1810)	 RM3/9 (610x1810)	 RM4/9 (810x1810)	 RM5/9 (1010x1810)	 RM6/9 (1210x1810)	 RM7/9 (1410x1810)	 RM8/9 (1610x1810)	 RM9/9 (1810x1810)	 RM10/9 (2010x1810)	 RM11/9 (2210x1810)	 RM12/9 (2410x1810)
 RM1/10 (210x2010)	 RM2/10 (410x2010)	 RM3/10 (610x2010)	 RM4/10 (810x2010)	 RM5/10 (1010x2010)	 RM6/10 (1210x2010)	 RM7/10 (1410x2010)	 RM8/10 (1610x2010)	 RM9/10 (1810x2010)	 RM10/10 (2010x2010)	 RM11/10 (2210x2010)	 RM12/10 (2410x2010)
 RM1/11 (210x2210)	 RM2/11 (410x2210)	 RM3/11 (610x2210)	 RM4/11 (810x2210)	 RM5/11 (1010x2210)	 RM6/11 (1210x2210)	 RM7/11 (1410x2210)	 RM8/11 (1610x2210)	 RM9/11 (1810x2210)	 RM10/11 (2010x2210)	 RM11/11 (2210x2210)	 RM12/11 (2410x2210)
 RM1/12 (210x2410)	 RM2/12 (410x2410)	 RM3/12 (610x2410)	 RM4/12 (810x2410)	 RM5/12 (1010x2410)	 RM6/12 (1210x2410)	 RM7/12 (1410x2410)	 RM8/12 (1610x2410)	 RM9/12 (1810x2410)	 RM10/12 (2010x2410)	 RM11/12 (2210x2410)	 RM12/12 (2410x2410)

ALL DIMENSIONS IN MM