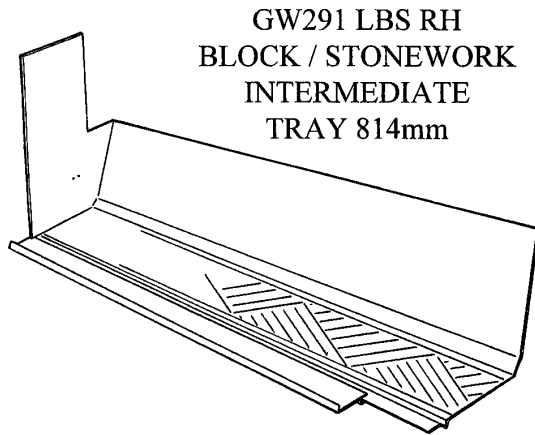
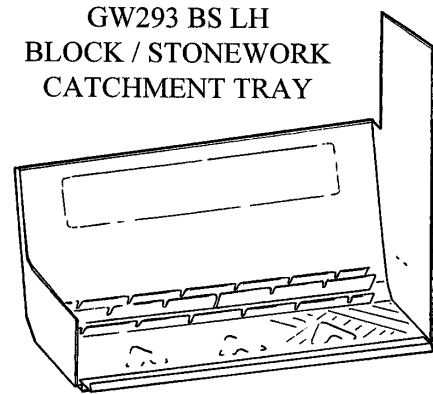


BLOCK / STONework TRAYS AND EFFECTIVE PITCHES

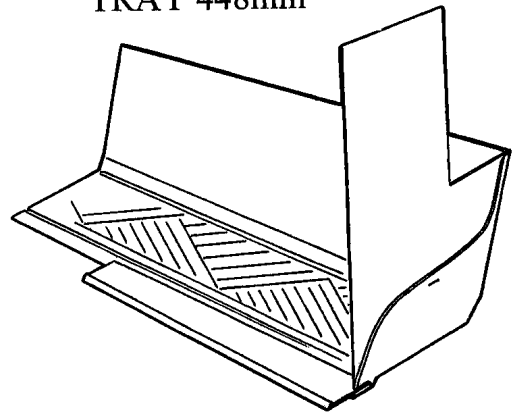


GW291 LBS RH
BLOCK / STONework
INTERMEDIATE
TRAY 814mm



GW293 BS LH
BLOCK / STONework
CATCHMENT TRAY

GW292 SBS LH
BLOCK / STONework
INTERMEDIATE
TRAY 448mm

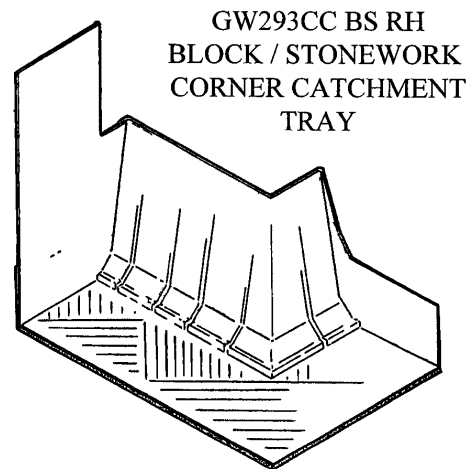


150 COURSING

CODE	APPROXIMATE LENGTH OF TRAY	PITCH RANGE
GW291 LBS	814mm	12 TO 24
GW292 LBS	814mm	12 TO 24
GW291 SBS	448mm	25 TO 50
GW292 SBS	448mm	25 TO 50
GW293 BS	330mm	ALL PITCHES
GW293CC BS	330mm x 219mm	ALL PITCHES

225 COURSING

CODE	APPROXIMATE LENGTH OF TRAY	PITCH RANGE
GW291 LBS	814mm	17.5 TO 34
GW292 LBS	814mm	17.5 TO 34
GW291 SBS	448mm	35 TO 50
GW292 SBS	448mm	35 TO 50
GW293 BS	330mm	ALL PITCHES
GW293CC BS	330mm x 219mm	ALL PITCHES



GW293CC BS RH
BLOCK / STONework
CORNER CATCHMENT
TRAY

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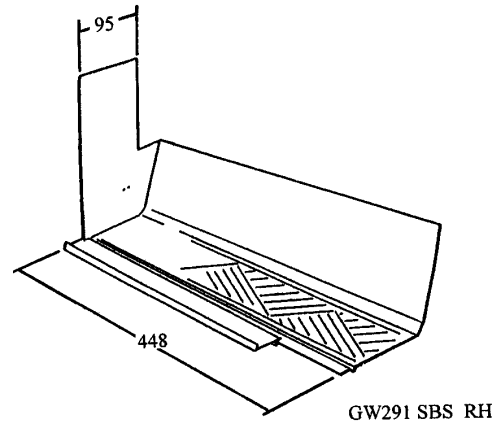
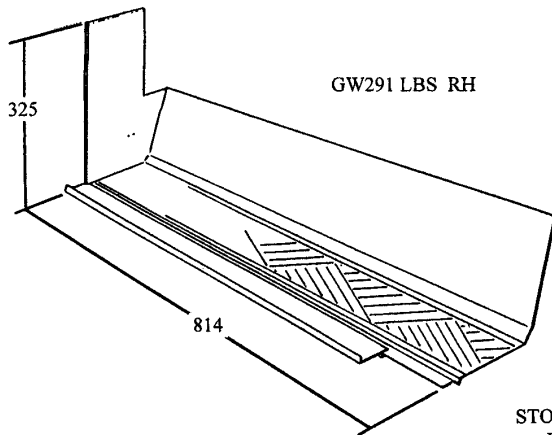
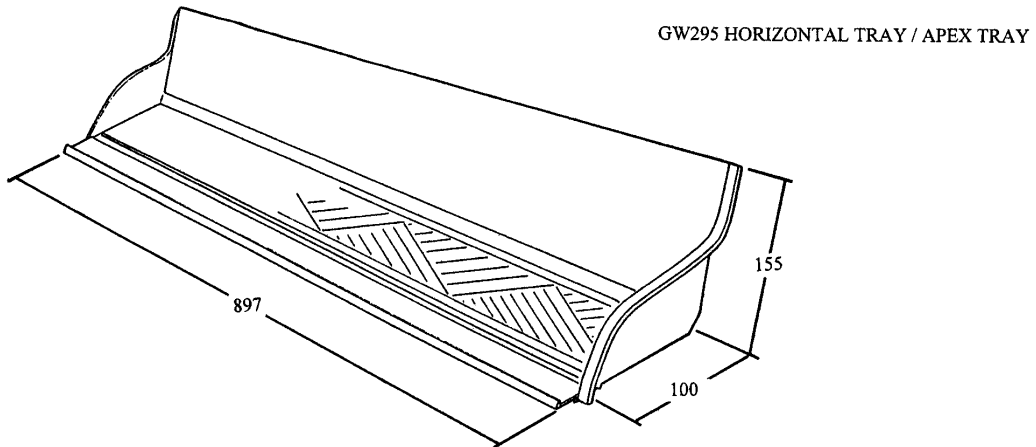
Issue

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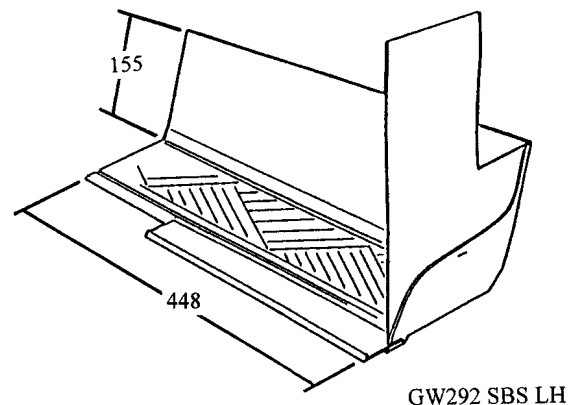
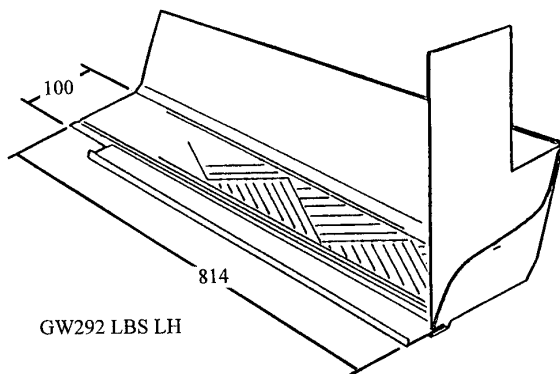
MBP 8123

A

BLOCK / STONEWORK CAVITY TRAY DIMENSIONS



STONE / BLOCKWORK
INTERMEDIATE
TRAYS



ALL DIMENSIONS IN mm

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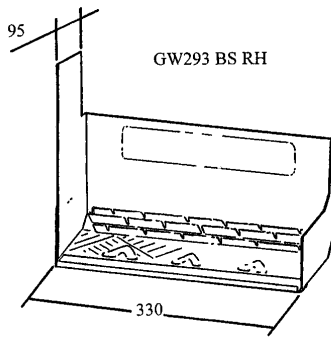
Issue

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MBP 8124

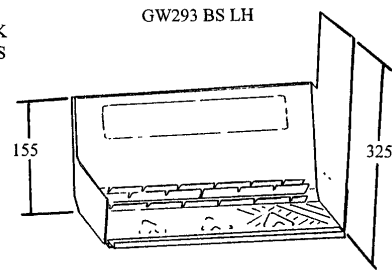
A

BLOCK / STONework CAVITY TRAY DIMENSIONS

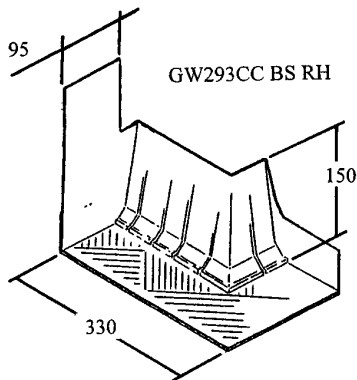


GW293 BS RH

STONE / BLOCKWORK
CATCHMENT TRAY'S

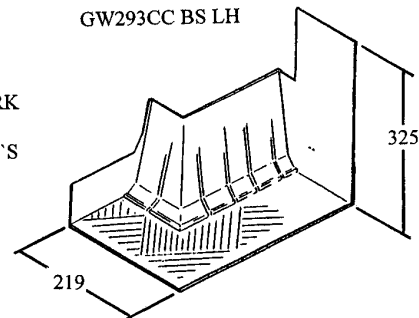


GW293 BS LH



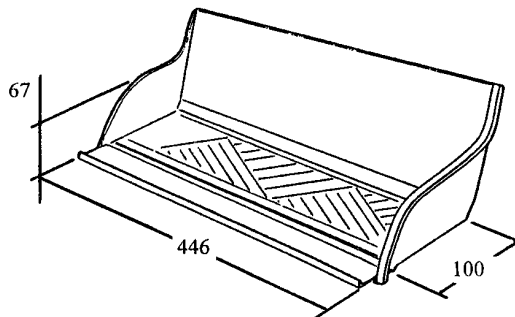
GW293CC BS RH

STONE / BLOCKWORK
CORNER
CATCHMENT TRAY'S

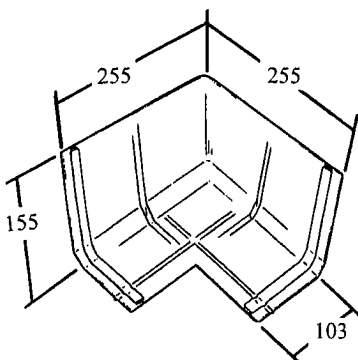
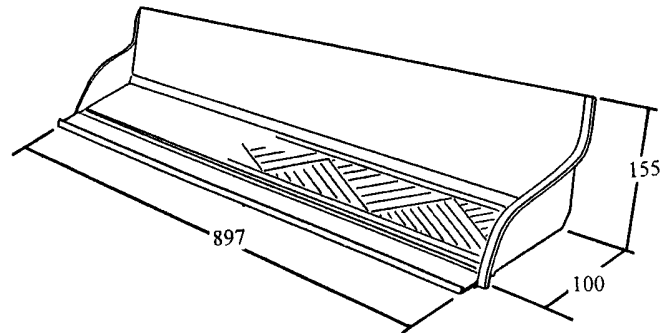


GW293CC BS LH

GW294 REFURB / SHORT HORIZONTAL TRAY

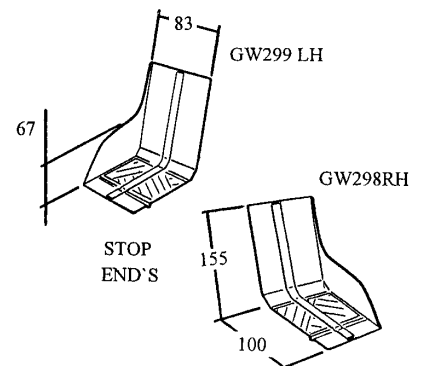
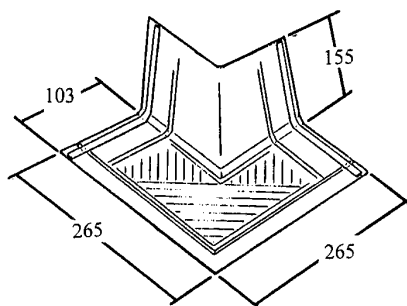


GW295 HORIZONTAL TRAY



GW296 INTERNAL CORNER

GW297 EXTERNAL CORNER



GW299 LH

GW298RH

STOP
END'S

ALL DIMENSIONS IN mm

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Issue

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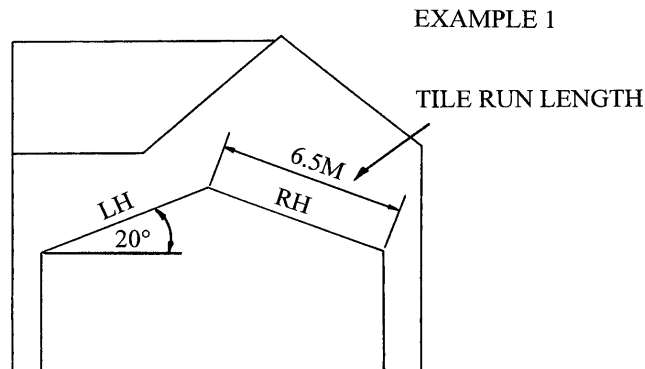
MBP 8124

A

STEPPED CAVITY TRAYS CALCULATION 150mm COURSING FROM TILE RUN LENGTH

Cavity tray quantities can be calculated by using the angle of the roof and the tile run length of the abutment.

For 150mm coursing Stone / Blockwork Intermediate trays are available in two alternative lengths 814mm long GW291 LBS / GW292 LBS for roof pitches 12 degrees to 24 degrees (Example 1) and GW291 SBS / GW292 SBS 448mm long for roof pitches 25 degrees to 50 degrees (Example 2).



When the length of the tile run and pitch are known the number of trays can be calculated from the table below although care should be taken to select the correct row of information.

ROOF PITCH		GW291LBS / GW292 LBS 17.5° TO 24°			
		17.5	20	22.5	24
TILE RUN LENGTH	1	1	1	2	2
	1.5	2	2	3	3
	2	3	4	4	4
	2.5	4	5	5	6
	3	5	6	7	7
	3.5	6	7	8	8
	4	7	8	9	10
	4.5	8	9	10	11
	5	9	10	12	13
	5.5	10	12	13	14
	6	11	13	14	15
	6.5	12	14	16	17
	7	13	15	17	18
	7.5	14	16	18	19
	8	15	17	19	21
	8.5	16	18	21	22
9	17	20	22	23	
9.5	18	21	23	25	

Example:

20° pitch with a 6.5M Run Length = 14

That means you would need 14 GW291 LBS Intermediate trays for the RH side of the pitched roof abutment.

And 14 GW292 LBS Intermediate trays for the LH side of the abutment.

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MBP 8150

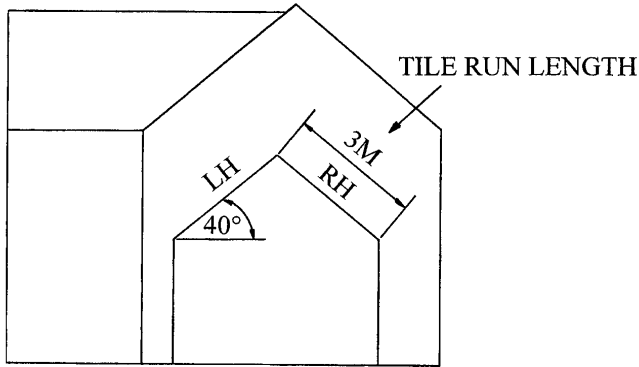
Issue

A

The company maintains a policy of continuous development of its product range and reserves the right to amend the specification without notice.

STEPPED CAVITY TRAYS CALCULATION 150mm COURSING FROM TILE RUN LENGTH

EXAMPLE 2



When the length of the tile run and pitch are known the number of trays can be calculated from the table below although care should be taken to select the correct row of information.

Example:

40° pitch at 3M Tile Run Length = 12

So you would need **12** GW291 SBS Intermediate trays for the RH side of the pitched roof abutment.

And **12** GW292 SBS Intermediate trays for the LH side of the abutment.

		GW291 SBS / GW292 SBS 25° TO 50°										
ROOF PITCH		25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50
TILE RUN LENGTH	1	2	2	2	3	3	3	3	4	4	4	4
	1.5	3	4	4	4	5	5	5	6	6	6	7
	2	5	5	6	6	7	7	8	8	8	9	9
	2.5	6	7	7	8	9	9	10	10	11	11	12
	3	7	8	9	10	10	11	12	13	13	14	14
	3.5	9	10	11	12	12	13	14	15	15	16	17
	4	10	11	12	13	14	15	16	17	18	19	19
	4.5	12	13	14	15	16	17	18	19	20	21	22
	5	13	14	16	17	18	19	20	22	23	24	25
	5.5	14	16	17	19	20	21	23	24	25	26	27
	6	16	17	19	20	22	23	25	26	27	28	30
	6.5	17	19	21	22	24	25	27	28	30	31	32
	7	19	21	22	24	26	27	29	31	32	33	35
	7.5	20	22	24	26	28	29	31	33	34	36	37
8	22	24	26	28	30	31	33	35	37	38	40	
8.5	23	25	27	29	32	33	35	37	39	41	42	
9	24	27	29	31	33	36	38	40	41	43	45	
9.5	26	28	31	33	35	38	40	42	44	46	48	

In both examples one GW293 BS Catchment tray per side of the abutment will also be required. If the roof abutment ends at a corner then a GW293 CC BS Corner Catchment tray would be required instead of a standard catchment tray.

A G950 Weep Vent must be used in conjunction with all catchment trays to drain away the collected water safely.

Lastly a GW295 Horizontal / Apex tray should be used if the abutment terminates at an apex but in certain low pitch situations two GW295's may be required and hooked together.

All trays can be supplied unleaded or with lead attached.

Note: - Please specify the type of lead required when ordering leaded trays and the pitch required.

The lead flashing is available in either code 4 or code 5 (special order)

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MBP 8150

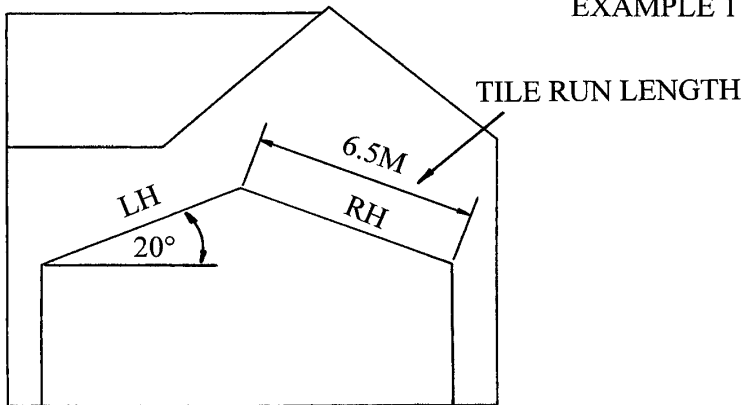
A

STEPPED CAVITY TRAYS CALCULATION 225mm COURSING FROM TILE RUN LENGTH

Cavity tray quantities can be calculated by using the angle of the roof and the tile run length of the abutment.

For 225mm coursing Stone / Blockwork Intermediate trays are available in two alternative lengths 814mm long GW291 LBS / GW292 LBS for roof pitches 17.5 degrees to 34 degrees (Example 1) and GW291 SBS / GW292 SBS 448mm long for roof pitches 35 degrees to 50 degrees (Example 2).

EXAMPLE 1



When the length of the tile run and pitch are known the number of trays can be calculated from the table below although care should be taken to select the correct row of information.

Example:

20° pitch 6.5M tile run length = 9

So you would need 9 GW291 LBS Intermediate trays for the RH side of the pitched roof abutment.

And 9 GW292 LBS Intermediate trays for the LH side of the abutment.

		GW291 LBS / GW292 LBS 17.5° TO 34°							
ROOF PITCH		17.5	20	22.5	25	27.5	30	32.5	34
TILE RUN LENGTH	1	0	1	1	1	1	1	1	1
	1.5	1	1	2	2	2	2	3	3
	2	2	2	2	3	3	3	4	4
	2.5	2	3	3	4	4	5	5	5
	3	3	4	4	5	5	6	6	6
	3.5	4	4	5	6	6	7	7	8
	4	4	5	6	7	7	8	9	9
	4.5	5	6	7	7	8	9	10	10
	5	6	7	8	8	9	10	11	11
	5.5	6	7	8	9	10	11	12	13
	6	7	8	9	10	11	12	13	14
	6.5	8	9	10	11	12	13	15	15
	7	8	10	11	12	13	15	16	16
	7.5	9	10	12	13	14	16	17	18
	8	10	11	13	14	15	17	18	19
	8.5	10	12	13	15	16	18	19	20
9	11	13	14	16	17	19	20	21	
9.5	12	13	15	17	18	20	22	23	
10	12	14	16	18	20	21	23	24	

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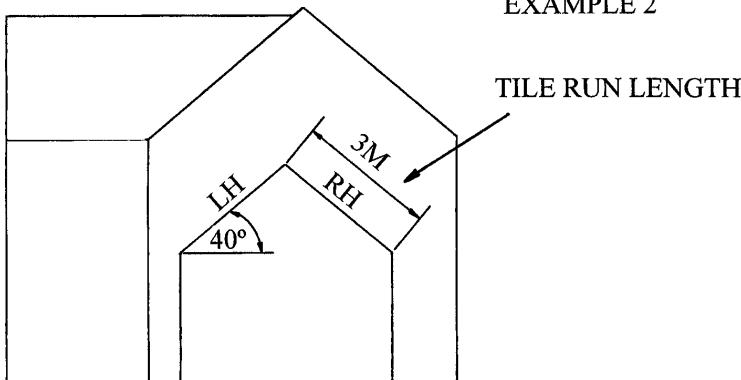
MBP 8151

Issue

A

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STEPPED CAVITY TRAYS CALCULATION 225mm COURSING FROM TILE RUN LENGTH



Example:

40° pitch with a 3M tile run length = 8

So you would need **8** x GW291 SBS Intermediate trays for the RH side of the pitched roof abutment.

And **8** GW292 LBS Intermediate trays for the LH side of the abutment.

In both examples one GW293 BS Catchment tray per side of the abutment will also be required. If the roof abutment ends at a corner then a GW293 CC BS Corner Catchment tray would be required instead of a standard catchment tray.

A G950 Weep Vent must be used in conjunction with all catchment trays to drain away the collected water safely. Lastly a GW295 Horizontal / Apex tray should be used if the abutment terminates at an apex but in certain low pitch situations two GW295's may be required and hooked together.

		GW291 SBS / GW292 SBS 35° TO 50°						
ROOF PITCH		35	37.5	40	42.5	45	47.5	50
TILE RUN LENGTH	1	2	2	2	2	2	2	2
	1.5	3	3	3	4	4	4	4
	2	4	4	5	5	5	6	6
	2.5	5	6	6	7	7	7	8
	3	7	7	8	8	8	9	9
	3.5	8	8	9	10	10	10	11
	4	9	10	10	11	12	12	13
	4.5	10	11	12	13	13	14	14
	5	12	13	13	14	15	15	16
	5.5	13	14	15	16	16	17	18
	6	14	15	16	17	18	19	19
	6.5	16	17	18	19	19	20	21
	7	17	18	19	20	21	22	23
	7.5	18	19	20	22	23	24	25
8	19	21	22	23	24	25	26	
8.5	21	22	23	25	26	27	28	
9	22	23	25	26	27	28	30	
9.5	23	25	26	28	29	30	31	
10	24	26	28	29	30	32	33	

All trays can be supplied unleaded or with lead attached.

Note: - Please specify the type of lead required when ordering leaded trays and the pitch required.

The lead flashing is available in either code 4 or code 5 (special order).

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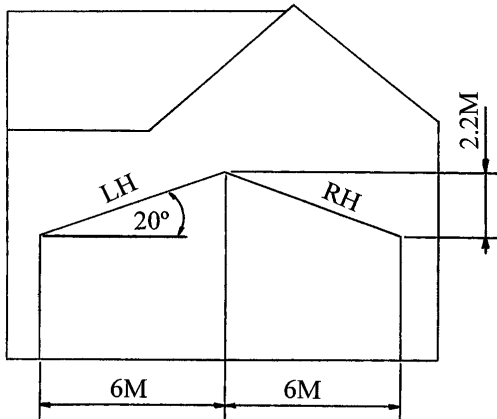
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MBP 8151

A

STEPPED CAVITY TRAYS CALCULATION 150mm COURSING

Cavity tray quantities can be calculated by using either the vertical or horizontal measurement of the abutment. Stone / Blockwork Intermediate trays are available in two alternative lengths 814mm long GW291 LBS / GW292 LBS for roof pitches 12 to 24 degrees (Example 1) and GW291 SBS / GW292 SBS 448mm long for roof pitches 25 to 50 degrees (Example 2).



EXAMPLE 1

If the vertical dimension is known (Apex to gutter) simply divide the height by the stonework course height being used as shown.

Example:

$2.2\text{M} \div 0.150\text{M}$ (Stonework coursing) = **15**

That means you will need **15** GW291 LBS Intermediate trays for the RH side of the pitched roof abutment at a 20 degree pitch.

And **15** x GW292 LBS Intermediate trays for the LH side of the abutment.

If the horizontal dimension and pitch are known the number of trays can be calculated from the table below although care should be taken to select the correct row of information.

Example:

6M span at a **20°** pitch = **15** trays for one side of the pitched roof abutment.

		GW291 LBS / GW292 LBS 17.5° TO 24°				
		PITCH	17.5	20	22.5	24
SPAN METRES	1	2	2	3	3	
	1.5	3	4	4	4	
	2	4	5	6	6	
	2.5	5	6	7	7	
	3	6	7	8	9	
	3.5	7	8	10	10	
	4	8	10	11	12	
	4.5	9	11	12	13	
	5	11	12	14	15	
	5.5	12	13	15	16	
	6	13	15	17	18	
6.5	14	16	18	19		
7	15	17	19	21		

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Issue

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MBP 8137

A

STEPPED CAVITY TRAYS CALCULATION 150mm COURSING

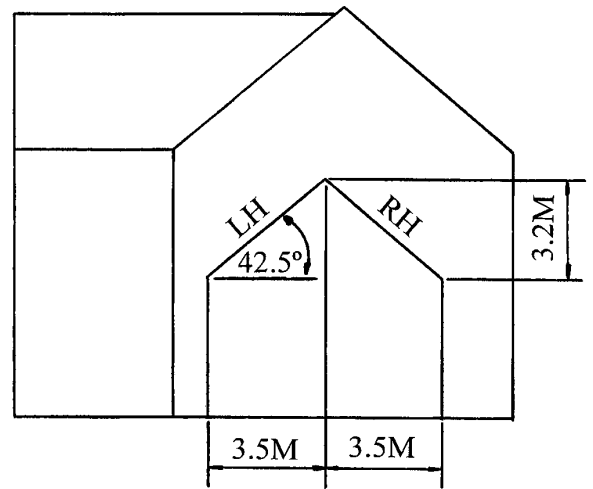
Again if the vertical dimension is known (Apex to gutter) simply divide the height by the stonework course height being used as shown.

Example:

$3.2\text{M} \div 0.150\text{M}$ (Stonework coursing) = 21

That means you will need 21 x GW291 SBS Intermediate trays for the RH side of the pitched roof abutment at a 42.5 degree pitch.

And 21 x GW292 SBS Intermediate trays for the LH side of the abutment.



If the horizontal dimension and pitch are known the number of trays can be calculated from the table below although care should be taken again to select the correct row of information.

Example:

3.5M span at a 42.5° pitch = 21 trays for one side of the pitched roof abutment.

		GW291 SBS / GW292 SBS 25° TO 50°											
		PITCH	25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50
SPAN METRES	1	3	3	4	4	5	5	6	6	7	7	8	
	1.5	5	5	6	6	7	8	8	9	10	11	12	
	2	6	7	8	8	9	10	11	12	13	15	16	
	2.5	8	9	10	11	12	13	14	15	17	18	20	
	3	9	10	12	13	14	15	17	18	20	22	24	
	3.5	11	12	13	15	16	18	20	21	23	25	28	
	4	12	14	15	17	19	20	22	24	27	29	32	
	4.5	14	16	17	19	21	23	25	27	30	33	36	
	5	16	17	19	21	23	26	28	31	33	36	40	
	5.5	17	19	21	23	26	28	31	34	37	40	44	
6	19	21	23	25	28	31	34	37	40	44	48		
6.5	20	23	25	28	30	33	36	40	43	47	52		
7	22	24	27	30	33	36	39	43	47	51	56		

All trays can be supplied unleaded or with lead attached. Please specify the type of lead required when ordering leaded trays and the pitch required.

The lead flashing is available in either code 4 or code 5 (special order)

In both examples one GW293 BS Catchment tray per side of the abutment will also be required. If the roof abutment ends at a corner then a GW293 CC BS Corner Catchments tray would be required instead of a standard catchment tray.

A G950 Weep Vent must be used in conjunction with all catchment trays to drain away the collected water safely. Lastly a GW295 Horizontal / Apex tray should be used if the abutment terminates at an apex but in certain low pitch situations two GW295's may be required and hooked together.

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Issue

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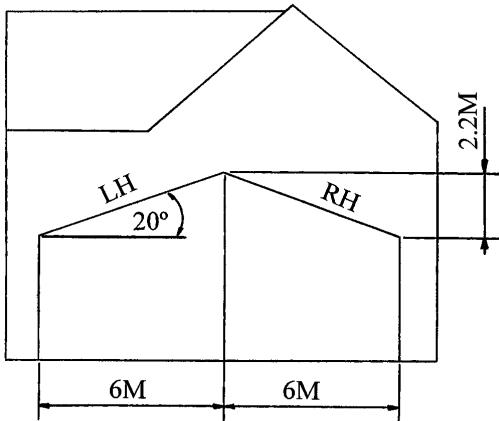
MBP 8137

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STEPPED CAVITY TRAYS CALCULATION 225mm COURSING

Cavity tray quantities can be calculated by using either the vertical or horizontal measurement of the abutment. Stone / Blockwork Intermediate trays are available in two alternative lengths 814mm long GW291 LBS / GW292 LBS for roof pitches 12 to 24 degrees (Example 1) and GW291 SBS / GW292 SBS 448mm long for roof pitches 25 to 50 degrees (Example 2).

EXAMPLE 1



If the vertical dimension is known (Apex to gutter) simply divide the height by the blockwork course height being used as shown below.

Example:

$$2.2\text{M} \div 0.225\text{M (Blockwork coursing)} = \underline{10}$$

That means that you would need **10** x GW291 LBS Intermediate trays for the RH side of the pitched roof abutment at a 20° pitch.

And **10** x GW292 LBS Intermediate trays for the LH side of the abutment.

If the horizontal dimension and pitch are known the number of trays can be calculated from the table below although care should be taken to select the correct row of information.

Example:

6M span at a **20°** pitch = **10** trays for one side of the pitched roof abutment.

		GW291 LBS / GW292 LBS 17.5° TO 34°								
		PITCH	17.5	20	22.5	25	27.5	30	32.5	34
SPAN METRES	1	1	2	2	2	2	3	3	3	3
	1.5	2	2	3	3	3	4	4	4	4
	2	3	3	4	4	5	5	6	6	6
	2.5	4	4	5	5	6	6	7	7	7
	3	4	5	6	6	7	8	8	9	9
	3.5	5	6	6	7	8	9	10	10	10
	4	6	6	7	8	9	10	11	12	12
	4.5	6	7	8	9	10	12	13	13	13
	5	7	8	9	10	12	13	14	15	15
	5.5	8	9	10	11	13	14	16	16	16
	6	8	10	11	12	14	15	17	18	18
6.5	9	11	12	13	15	17	18	19	19	
7	10	11	13	15	16	18	20	21	21	

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DRN M.A

Date 01.08.03

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STEPPED CAVITY TRAYS CALCULATION 225mm COURSING

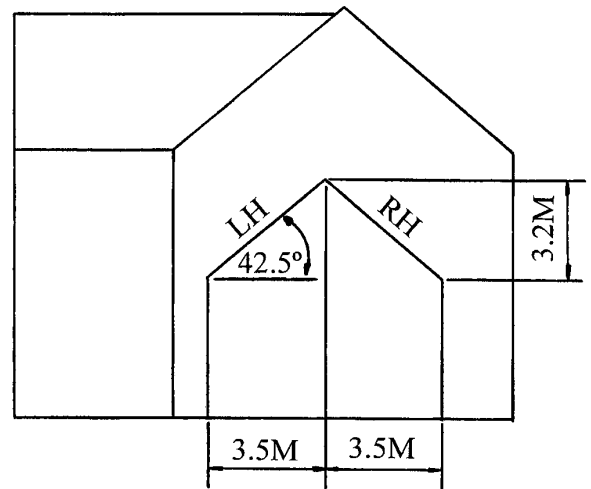
Again if the vertical dimension is known (Apex to gutter) simply divide the height by the stonework course height being used as shown below.

Example:

$3.2\text{M} \div 0.225\text{M}$ (Blockwork coursing) = **14**

That means you would need **14** x GW291 SBS Intermediate trays for the RH side of the pitched roof abutment at a 42.5 degree pitch.

And **14** x GW292 SBS Intermediate trays for the LH side of the abutment.



If the horizontal dimension and pitch are known, the number of trays can be calculated from the table below although care should be taken again to select the correct row of information.

Example:

3.5M span at a 42.5° pitch = **14** trays for one side of the pitched roof abutment.

		GW291 SBS / GW291 SBS 35° TO 50°							
		PITCH	35	37.5	40	42.5	45	47.5	50
SPAN METRES	1	3	3	4	4	4	5	5	
	1.5	5	5	6	6	7	7	8	
	2	6	7	7	8	9	10	11	
	2.5	8	9	9	10	11	12	13	
	3	9	10	11	12	13	15	16	
	3.5	11	12	13	14	16	17	19	
	4	12	14	15	16	18	19	21	
	4.5	14	15	17	18	20	22	24	
	5	16	17	19	20	22	24	26	
	5.5	17	19	21	22	24	27	29	
	6	19	20	22	24	27	29	32	
6.5	20	22	24	26	29	32	34		
7	22	24	26	29	31	34	37		

In both examples one GW293 BS Catchment tray per side of the abutment will also be required. If the roof abutment ends at a corner then a GW293 CC BS Corner Catchment tray would be required instead of a standard catchment tray.

A G950 Weep Vent must be used in conjunction with all catchment trays to drain away the collected water safely.

Lastly a GW295 Horizontal / Apex tray should be used if the abutment terminates at an apex but in certain low pitch situations two GW295's may be required and hooked together.

All trays can be supplied unleaded or with lead attached.

Note: - Please specify the type of lead required when ordering leaded trays and the pitch required.

The lead flashing is available in either code 4 or code 5 (special order).

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