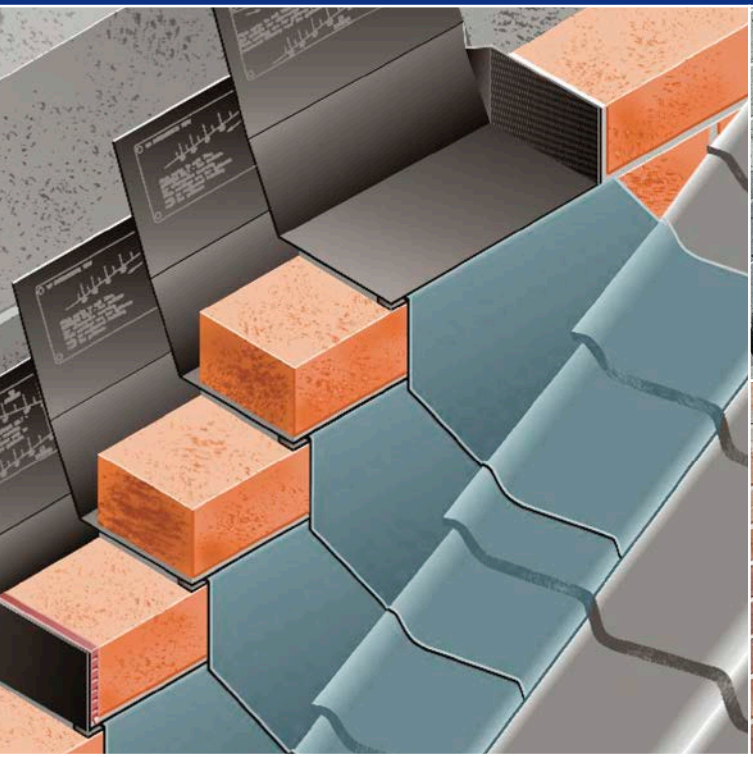
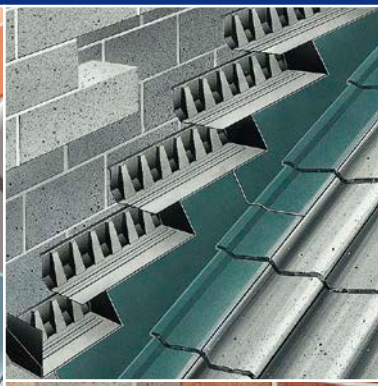
Cavity Trays





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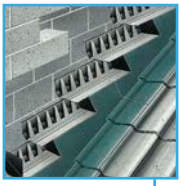
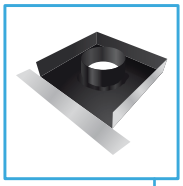
Cavity Tray Application

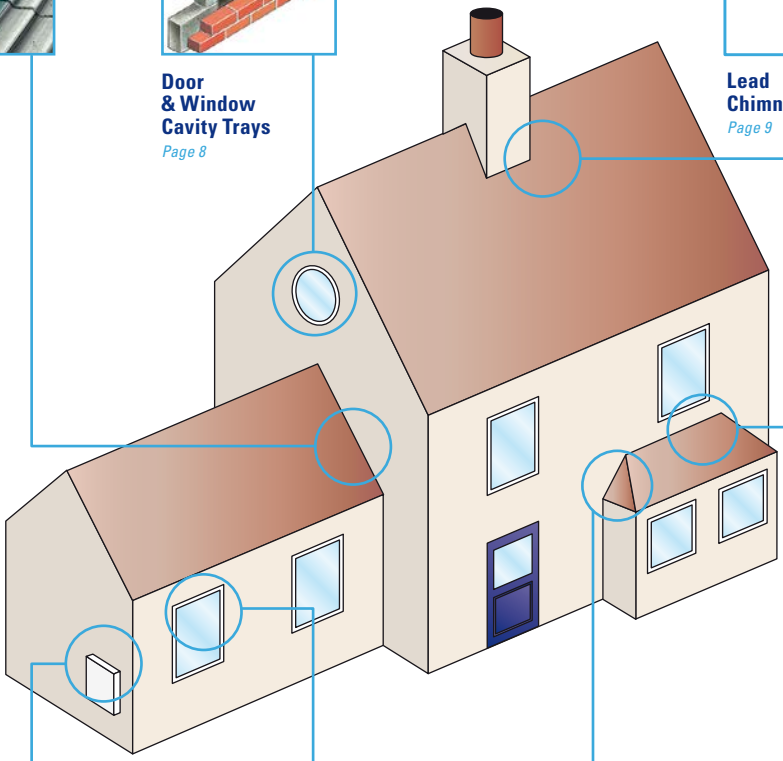


Block Cavity Trays
Page 4

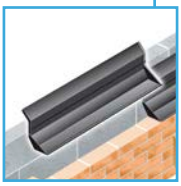
Door & Window Cavity Trays
Page 8



Lead Chimney Trays
Page 9



Inter-loc Horizontal Cavity Trays
Page 7



Lintel Cavity Trays
Page 8

Brick Cavity Trays
Page 3

System 2000E Horizontal Cavity Trays
Page 5

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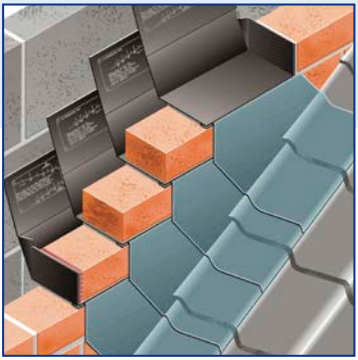
Brick Cavity Trays

Stepped leaded cavity tray system for multi cavity options in brick wall construction of 75mm course heights

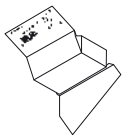


Application

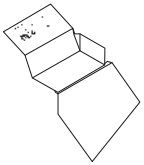
- At abutment of a pitched roof with a cavity wall
- On external walls not exceeding 120mm thickness, built from standard brickwork or similar sized components with regular course heights including mortar of approx 75mm
- On roof pitches of 25 degrees and above
- Cavity widths of between 50mm-110mm

Features and Benefits

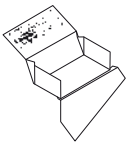
- Supplied with factory fitted lead flashing ready cut to suit the pitch of the roof and type of roof covering
- 195mm high back upstand
- Adjustable upstand to cover 50mm – 110mm cavities
- Roof pitch marks on tray upstand to give installation guidance
- Optional longer trays for roof pitches less than 25 degrees
- Fitted with Code 4 milled lead as standard



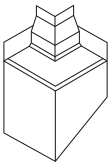
Intermediate tray short lead (LH)



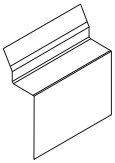
Intermediate tray long lead (LH)



Stopend starter tray short lead (LH)



Corner starter tray long lead (LH)



Ridge tray

Product Codes for 75mm BRICK coursing			
Description	Length	Handing	Product Codes
Intermediate Tray	225mm	Right Hand	20001
Intermediate Tray	225mm	Left Hand	20002
Catchment Starter Tray	225mm	RH/LH	20031/32
Corner Starter Tray	225mm	RH/LH	20041/42
Ridge Tray	420mm	N/A	20061

NB – Intermediate trays are 225mm in length at roof pitches of 25 degrees and above. Below this the length increases to 420mm and 525mm.
For calculating quantities of stepped cavity trays required, please contact icon building products technical department.

Block Cavity Trays

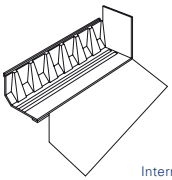
Stepped leaded cavity tray system for Blockwork construction of 225mm course heights

Application

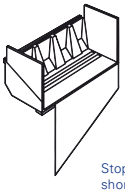
- At abutment of a pitched roof with a cavity wall
- On external walls not exceeding 150mm thickness, built from blockwork or stone with regular course heights including mortar of approx 225mm
- On roof pitches of 15 degrees and above
- Cavity widths of between 50mm-125mm

Features and Benefits

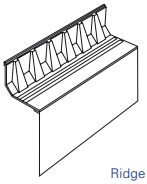
- Supplied with factory fitted lead flashing ready to cut to suit the pitch of the roof and type of roof covering
- 150mm high back upstand exceeds minimum requirements
- Permanent stopend protects the perpendicular joint and cuts out water backtracking along the blockwork
- Angled section between cavity tray base and rear upstand automatically sheds water to the outer leaf
- Choice of two lengths; 625mm for roof pitches of 25 deg or above; 1250mm for roof pitches of 12.5-22.5 deg.
- Fitted with Code 4 milled lead as standard
- Unleaded trays also available



Intermediate tray long lead (LH)



Stopend starter tray short lead (LH)



Ridge tray (LH/RH)

Product Codes for 225mm BLOCK/STONE coursing 100mm external wall thickness

Description	Length	*Product Codes to suit cavity widths of* 50-74mm	75-99mm	100-125mm
Intermediate Tray RH	Varies	8201	8203	8205
Intermediate Tray LH	Varies	8202	8204	8206
Catchment Starter Tray RH	450mm	8231	8233	8235
Catchment Starter Tray LH	450mm	8232	8234	8236
Corner Starter Tray RH	550mm	7241	7243	7245
Corner Starter Tray LH	550mm	7242	7244	7246
Ridge Tray	420mm	8261	8262	8263

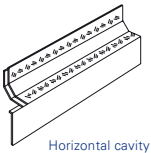
NB – Trays to suit 125mm and 150mm external wall thickness also available on request
For calculating quantities of stepped cavity trays required,
please contact icon building products technical department.

System 2000 Horizontal Cavity Trays

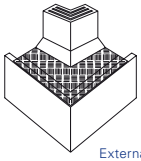
Horizontal Leaded cavity tray system for all types of brick, block and stone construction

Application

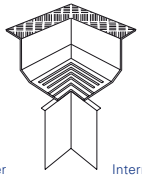
- At abutment of a flat roof with a cavity wall
- At the abutment of a lean-to or mono pitch roof with a cavity wall
- Over airbricks, cavity liners, ducts, meter boxes etc
- On external walls, not exceeding 102.5mm in thickness built from standard brickwork, blockwork or stone
- Cavity widths of between 50mm-125mm



Horizontal cavity tray



External corner



Internal corner

Stopend (LH)

Features and Benefits

- Supplied with factory fitted lead flashing, cut ready for dressing
- 150mm high back upstand exceeds minimum requirements
- Low profile lapped joints between sections allows any length or brick, block or stone to be used
- Angled section between cavity tray base and rear upstand automatically sheds water to the outer leaf
- Choice of two lengths; 880mm for general use & 460mm to reduce waste when making up a run of cavity trays to required lengths.
- Available with or without lead attached
- Fitted with Code 4 milled lead as standard
- Corner units and stop ends available
- Sections join together by means of a lapped joint, sealed with factory applied butyl tape

Product Codes for Inter-loc system horizontal tray with 150mm drop lead

Description	Overall Length	Installed length	Product Code
Horizontal tray	880mm	830mm	2075/880L (50)
Horizontal tray	460mm	410mm	2075/460L (50)
External 90° corner	N/A	N/A	2010L (50)
Internal 90° corner	N/A	N/A	2011L (50)
Stopend RH	N/A	N/A	2003
Stopend LH	N/A	N/A	2004

Technical

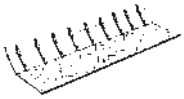
Weep holes must be provided every 900mm along cavity tray run to comply with Building Regs. For calculating quantities of horizontal cavity trays required, please contact icon building products technical department.

System 2000E Refurbishment Horizontal Cavity Trays

Horizontal cavity tray system for remedial work on existing walls

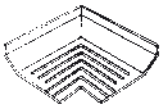
Application

- For remedial work where a horizontal cavity tray must be inserted into existing wall
- At abutment of a flat roof with a cavity wall
- At the abutment of a lean-to or mono pitch roof with a cavity wall
- Over airbricks, cavity liners, ducts, meter boxes etc.
- On external walls, not exceeding 102.5mm in thickness built from standard brickwork, blockwork or stone
- Cavity widths of between 50mm-125mm

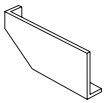


E-Horizontal cavity tray

External corner



Internal corner



Stopend (LH)

Features and Benefits

- Compact size and design allows insertion into existing wall without ever having to remove more than three bricks at any one time
- Low profile lapped joint between sections allows for variations in brick sizes
- Angled section between cavity tray base and rear upstand automatically sheds water to the outer leaf
- Cavity tray builds into the outer leaf only, no need to disturb the inner wall of building
- Available with or without lead attached
- Fitted with Code 4 milled lead as standard
- Corner units and stop ends available
- Sections join together by means of a lapped joint, sealed with factory applied butyl tape

Product Codes for Inter-loc system horizontal tray with 150mm drop lead

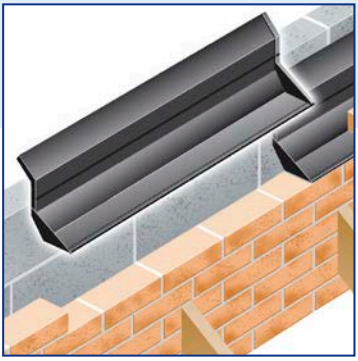
Description	Overall Length	Installed length	Product Code
Horizontal tray	460mm	440mm	2005E (50)
External 90° corner	N/A	N/A	2006E(50)
Internal 90° corner	N/A	N/A	2007E (50)
Stopend RH	N/A	N/A	2003
Stopend LH	N/A	N/A	2004

Technical

Weep holes must be provided every 900mm along cavity tray run to comply with Building Regs. For calculating quantities of refurbishment cavity trays required, please contact icon building products technical department.

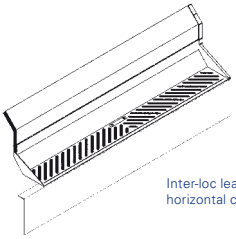
Inter-loc Horizontal Cavity Trays

Preformed horizontal leaded cavity tray system



Application

- At abutment of a flat roof with a cavity wall
- At the abutment of a lean-to or mono pitch roof with a cavity wall
- Over Concrete ring beams
- Over airbricks, cavity liners, ducts, meter boxes etc
- On external walls, not exceeding 102.5mm in thickness built from standard brickwork, blockwork or stone
- Cavity widths of between 50mm-125mm



Inter-loc leaded horizontal cavity tray

Features and Benefits

- Fits all cavity sizes up to 125mm
- Suitable for brick, block and stone wall construction
- 150mm high back upstand exceeds minimum requirements
- Angled section between cavity
- Interlocking mechanism for jointing tray lengths to eliminate tray jointing
- Built to brick bonding lengths for ease of use
- Available in two lengths; 4 brick for general use and 2 brick for reduced waste when making up a run of cavity trays to required lengths
- Fitted with Code 4 milled lead as standard
- Unleaded trays also available

Product Codes for Inter-loc system horizontal tray with 150mm drop lead

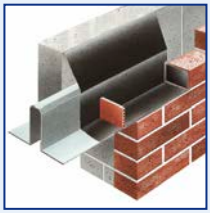
Description	Effective Length	Product Code
Inter-loc horizontal	4 bricks	Inter-loc 4-150L
Inter-loc horizontal	2 bricks	Inter-loc 2 -150L
Corner link tray RH	430mm	Inter-loc 2-CL-RH-150L
Corner link tray LH	880mm	Inter-loc 4 -CL-LH-150L
External 90° corner taped	2/4 brick	Ext 90-150L
Internal 90° corner taped	2/4 brick	Int 90-150L
External 135° corner taped	330mm	Ext 135 – 150L
Internal 135° corner taped	150mm	Int 135 – 150L

For calculating quantities of stepped cavity trays required, please contact icon building products technical department.

Special Cavity Trays

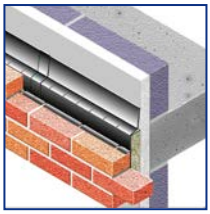
Lintel Cavity Trays

- For use over steel lintels in external cavity walls
- Fully self supported cavity tray system
- Build independently from inner leaf
- Full range of cut to length sizes available
- No waste, no site fabrication, easy to handle and install
- Must be combined with stopends and weep holes



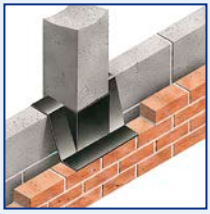
Acoustray Perimeter Cavity Stop

- To prevent the transmission of flanking noise between floor levels and external wall junctions
- Can be used as a fire stop with integrated cavity tray
- Saves installation problems as it can be installed independently of Internal walls
- No break in insulation, no cold bridging, no secondary fixings
- Ideal for refurbishment work as only outside leaf requires removal



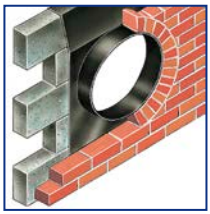
Purpose Made Cavity Trays

- To substitute the cutting, moulding and sealing of a DPC when forming cavity trays, angles, stop ends and column cloaks
- One piece seamless moulding eliminates the need for site fabrication to prevent errors through poor workmanship
- Manufactured to suit exact customer requirements
- Easy to handle, flexible, tough, durable and puncture resistance



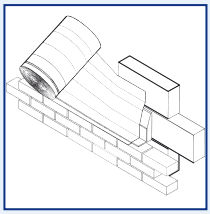
Door and Window Cavity Trays

- Used around the openings of an external door or window with an arched top or circular external window
- On external walls built from brick, block or stone as well as timber frame construction of any thickness and any cavity width
- One piece seamless moulding eliminates the need for site fabrication
- Manufactured to suit the exact customers requirements
- Any size type of radius can be fabricated



Masonry Support System

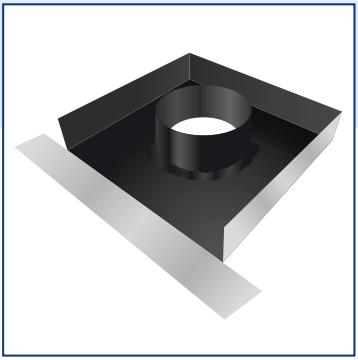
- Direct fit over masonry support systems to form DPC cavity trays
- Can be tailored to suit all types of masonry support systems
- Supplied in 20m rolls to reduce jointing and available in a range of pre creased roll widths 450mm, 600mm and 1000mm
- Once the cavity tray has been folded it maintains its profile, but still has the flexibility of a traditional system



ICON BUILDING PRODUCTS

Lead Chimney Trays

Lead chimney tray for brick or block chimney stacks



Application

- For use with brick or block chimney stacks
- Used where the chimney penetrates a pitched roof
- To stop water entering the building around a chimney
- Complies with current Building Regulation requirements

Features and Benefits

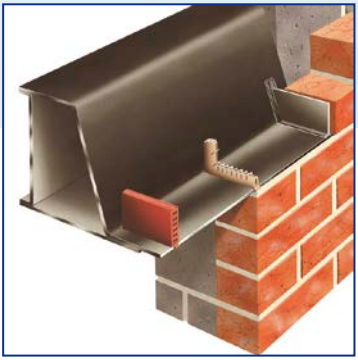
- Designed to collect water that penetrates the chimney and drain through weep holes back onto roof level
- Constructed with Code 4 or Code 5 (to order) lead, a material with proven characteristics to perform at the highest level in one of the most venerable parts of the building
- Coated with bituminous paint to prevent corrosion and avoid staining
- Suitable for new build or refurbishment work
- Should be located a minimum of 150mm above lowest point of intersection with the roof
- ICON weep vents supplied with chimney tray

Product Codes

Description	Code	Size	Colour
Code 4/5 lead chimney tray	ICT4 or ICT5	Made to order	Lead with bituminous Coating on internal section

Weep Vents

Cavity wall weeps designed to provide cavity ventilation or to discharge water from either brick or block external wall.

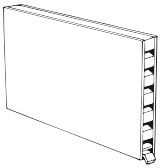


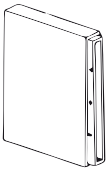
Application

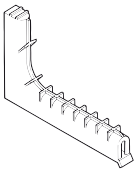
- For use in external wall 100mm plus
- Provides ventilation and drainage for cavity
- Where a timber frame cavity must be Ventilated
- For use with ICON cavity and chimney trays
- For use whenever water could collect inside a cavity wall, such as over a lintel

Features and Benefits

- Provides ventilation and drainage without problems
- Used in refurbishment or new build
- Quick & easy to install
- UV stable
- Available in Transparent, Buff, Terracotta, Black, Brown, White & Grey
- Integral front grill prevents entry of large nest building insects into cavity
- Typically installed at no greater than 900mm c/c
- Can be extended to suit any length using the weep extension pieces







Product Codes			
Description	Code	Size	Ventilation Free Area
IRectangular weep	IWR	H65xL100xW10mm	165mm^2
Gun Type weep	IWG	H15xL100xW10mm	N/A
Extension	IWE	H65xL50xW10mm	N/A

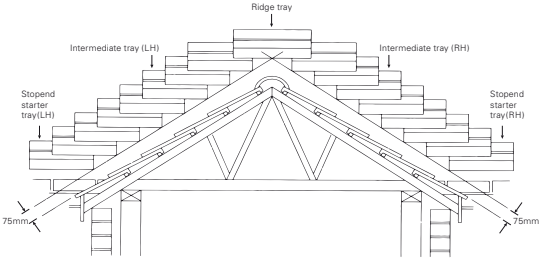
ICON BUILDING PRODUCTS

Technical Information

Stepped cavity trays

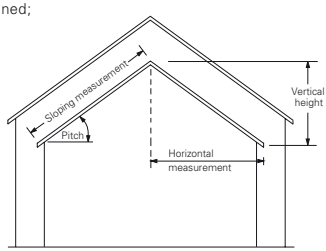
When specifying or installing stepped cavity trays it is important to consider the following recommendations:

- Ensure the run of cavity trays protects the abutment from eaves to ridge. The first (lowest) cavity tray (catchment) should ideally protect just beyond the eaves line or the roof. Further cavity trays must then be installed on every course for the full length of the abutting roof slope, ensuring the correct hand is used to suit direction of slope.
- The cavity tray should be positioned on a line parallel to and 75mm above the finished roof line.
- Cavity trays must always be bedded onto fresh mortar, never dry bedded.
- The cavity area must be kept clean and free from mortar droppings and debris.
- Weep holes must be provided in the face of the wall. Exposure will determine how often these are positioned.
- In the case of leaded trays it is important to specify the exact pitch of the roof.
- It is strongly recommended (particularly in exposed locations) that the laps on the lead flashings are sealed with an exterior grade mastic
- icon building products technical department will be pleased to advise on the most suitable product to meet the application.



Calculating quantities of cavity trays

To calculate the quantity of trays required in a pitched roof one of three measurements must be determined; either the vertical height or the sloping or the horizontal length of the abutment.



- If the vertical height is measured simply divide this distance by the coursing height of the material being used for the construction
  E.g. Vertical height is 1.5m with 75mm brick coursing (75mm=0.075m) the equation would be 1.5/0.075=20. Therefore 20 no cavity trays are required
- If the sloping or horizontal distance has been measured the tables shown below should be used to convert the distance into the quantity of cavity trays.
  E.g. Sloping measurement is 2.5m, pitch is 30° with a 75mm brick coursing height, the equation would be 2.5x6.7=16.75. This would be rounded up, so 17 no cavity trays are required
  E.g. Horizontal measurement is 1.5m at a pitch of 40° with a 225mm block course height, the equation would be 1.5x4.2=6.3. This would be rounded down so 6 no cavity trays are required.

Stepped cavity trays SLOPING measurement

Roof Pitch	75mm brick	150mm stone	200mm block	225mm block
10°	2.3	1.2	0.9	0.8
12.5°	2.9	1.4	1.1	1.0
15°	3.5	1.7	1.3	1.2
17.5°	4.0	2.0	1.5	1.3
20°	4.6	2.3	1.7	1.5
22.5°	5.1	2.6	1.9	1.7
25°	5.6	2.8	2.1	1.9
27.5°	6.2	3.1	2.3	2.1
30°	6.7	3.3	2.5	2.2
32.5°	7.2	3.6	2.7	2.4
35°	7.7	3.8	2.9	2.6
37.5°	8.1	4.1	3.0	2.7
40°	8.6	4.3	3.2	2.9
42.5°	9.0	4.5	3.4	3.0
45°	9.4	4.7	3.5	3.1

Stepped cavity trays HORIZONTAL measurement

Roof Pitch	75mm brick	150mm stone	200mm block	225mm block
10°	2.4	1.2	0.9	0.8
12.5°	3.0	1.5	1.1	1.0
15°	3.6	1.8	1.3	1.2
17.5°	4.2	2.1	1.6	1.4
20°	4.9	2.4	1.8	1.6
22.5°	5.5	2.8	2.1	1.8
25°	6.2	3.1	2.3	2.1
27.5°	7.0	3.5	2.6	2.3
30°	7.7	3.9	2.9	2.6
32.5°	8.5	4.3	3.2	2.8
35°	9.3	4.7	3.5	3.1
37.5°	10.2	5.1	3.8	3.4
40°	11.2	5.6	4.2	3.7
42.5°	12.2	6.1	4.6	4.1
45°	13.3	6.7	5.0	4.4

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