

catnic®



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International Product Catalogue

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Build it better with Catnic

Acknowledged for our excellence of service and conformance to the highest quality standards, our products have been installed successfully in municipal buildings and domestic properties in over 30 countries worldwide.

Building on our strength in the steel lintels market, Catnic supply a comprehensive range of branded building components and plasterers' profiles which are manufactured to the same industry-leading high standards as our renowned steel lintels.

Selecting the Catnic brand assures that the products you have chosen are of superior quality and are fully supported by our extensive distributor network throughout the world.

Features of Catnic Lintels

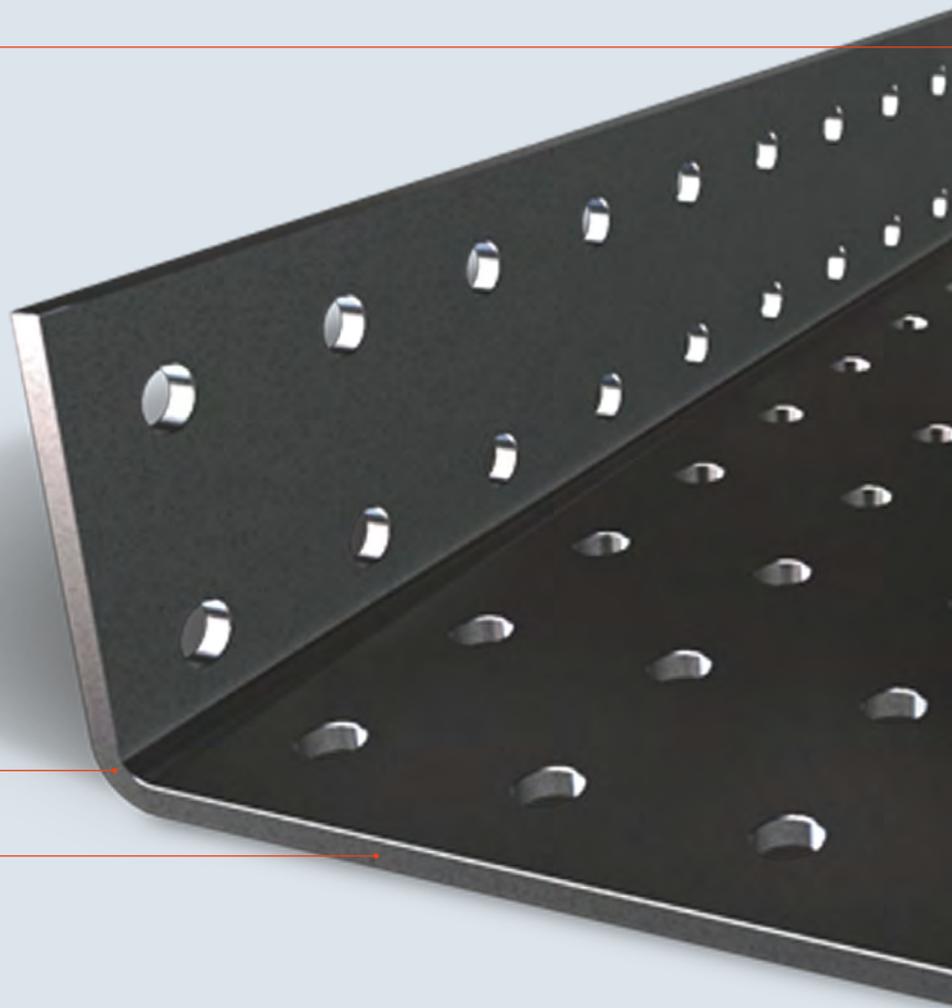
Catnic lintels offer many benefits to specifiers and builders through a combination of their design, thermal efficiency and corrosion protection. These major features ensure that Catnic lintels are widely used and respected, throughout the building industry.



Steel



Galvanised Steel



Duplex corrosion protection



Integral plaster key



Built-in Damp Proof Course (DPC) Profile

Many Catnic lintels offer a unique profile shape that combine with the unique Duplex Corrosion Protection or stainless steel to create an effective barrier that acts as a built-in DPC, meaning any water penetrating into the cavity automatically transfers across the sloping face of the lintel and is disposed of externally.

The ease of brick laying directly onto a solid surface eliminates the risk of damage while installing, or any possibility of incorrectly installing a separate DPC membrane. The result is an aesthetically pleasing, clean-line finish above the window head that saves time and cost. In areas of sheltered to medium exposed weather conditions there is no need to install a separate DPC (excludes TBL & short span CG ranges).



Duplex Corrosion Protection System

Initially, Catnic standard lintels are manufactured from hot-dipped galvanised steel to BS EN 10346: 2015 plus coating type Z275.

A coating of thermal setting polyester powder is then applied by an electrostatic process, further protecting the lintel. High temperature curing then produces a tough durable surface highly resistant to impact, abrasion and damage during rough on-site handling. This double method of protection gives Catnic lintels inherent benefits over those offered by other manufacturers using the more traditional pre- or post-galvanised steel techniques. The protection system complies fully with the chemical and physical test requirements outlined in table 2 of BS 5977: PART 2: 1983 and table C.1 of BS EN 845-2:2013 +A1:2016 for lintels effectively having their own built-in DPC.

Both of these processes rely on just a simple coating of zinc to provide cathodic protection. The zinc protects the steel, but is itself liable to rust with aqueous alkaline solutions leaching from the building fabric and therefore corrode. The famous black coating makes Catnic lintels instantly recognisable and provides an effective barrier against moisture or chemical attack leached from the mortar and masonry.



Integral Plaster Key

Many Catnic lintels come complete with an integral plaster key that avoid the hazards of working with a mesh key. In addition the unique design of the perforated base plates on CG lintels minimise cold bridging without affecting the structural performance.



Continuous Insulation

Many Catnic lintels are supplied with CFC and HCFC free insulation maximising their thermal efficiency and compliance with Part L.

The insulation is accurately shaped to optimise the thermal performance extending continuously along the full length of the lintel and cannot be dislodged, leaving no potential 'cold spots'.

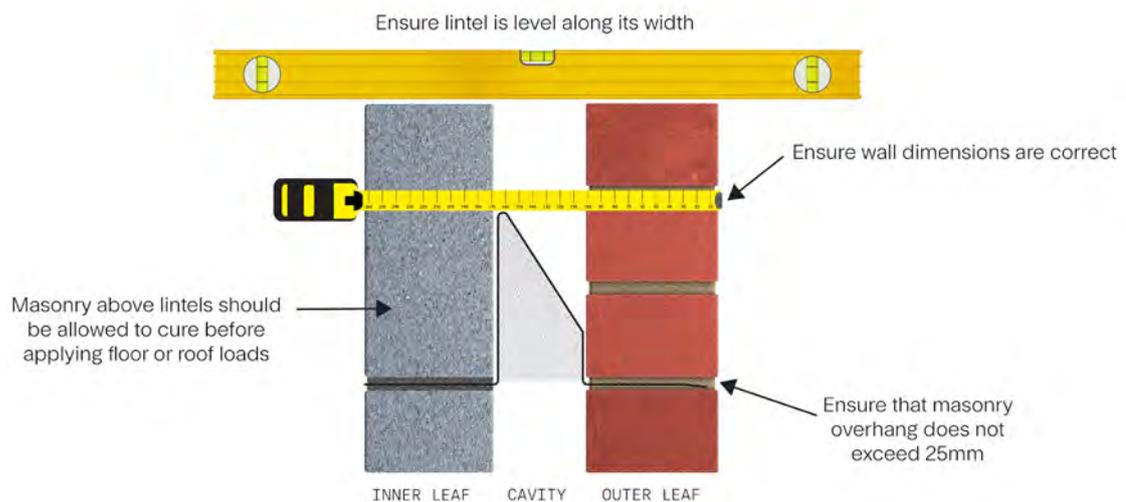
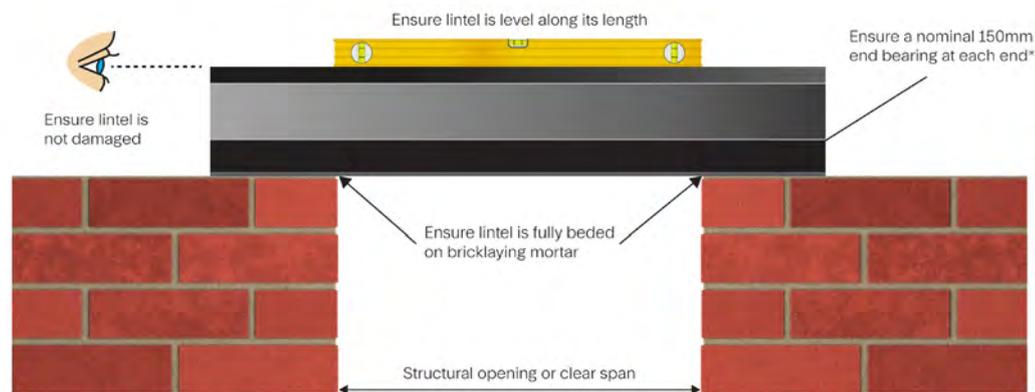


BS EN 845-2 : 2013
KM 07234



Cavity Wall Lintel Installation Guide

Catnic is committed to trouble free installation.



✓ Do

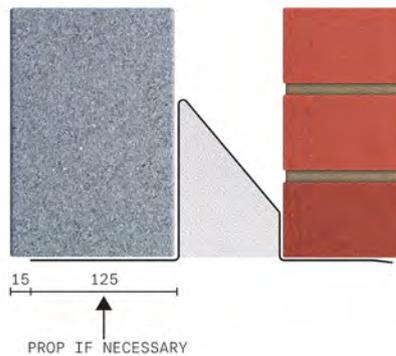
- ✓ Install a separate DPC in severe exposure conditions. A Catnic open back lintel with an additional DPC membrane installed in accordance with normal practice provides the best possible protection (page 63).
- ✓ Locate the window/door frame so that the drip on the front of the lintel projects forward of the drip on the front of the frame. It is good building practice to insert a flexible joint between the lintel and the top of the frame.
- ✓ Ensure that timber floor joists and roof trusses have a full block depth between them and the lintel flange on Catnic open back lintels.
- ✓ Consider the use of our soffit cladding for all coastal sites.

✗ Do Not

- ✗ Use damaged lintels.
- ✗ Apply point loads without prior consultation. Where the loading or a substantial part of it is applied as concentrated loads, each concentrated load must be supported over a length of lintel of not less than 200mm. In such cases, the total loading must not produce bending moments or shear forces greater than those produced by the uniformly distributed loads specified in the relevant data tables.
- ✗ Allow blockwork to overhang the lintel by more than 25mm.
- ✗ Apply concrete floor loads without ensuring that the total loads are checked by a structural engineer, or by Catnic Technical Services.
- ✗ Cut CG type lintels under any circumstances.
- ✗ Apply point loads directly onto lintel flanges.

Wide inner leaf lintels used with 140mm dense blocks

To ensure the flanges are equally loaded the Code of Practice should be strictly adhered to when building the masonry i.e. one row of blocks should be raised on the inner leaf, then three courses of brick on the outer leaf. Wall ties should then be installed and another row of blocks on the inner leaf followed by three courses of brick on the outer and so on. This process ensures that the lintel flanges are equally loaded and helps prevent rotation.



Propping

- When propping, a horizontal board should be placed along the underside of the lintel soffit, this will prevent any point loading, which could cause localised deformation of the lintel. On small openings a single prop should be placed centrally within the openings and wedged into place. The prop can be removed after the wall ties are effective. The number of props used should be increased for larger openings.
- The 140 mm dense blocks should be installed tight against the inner web of the lintel.
- Therefore, the overhang of blockwork on the lintels inner flange could be measured at 15mm.

Notes

* For advice on installations where end bearings can be reduced to not less than 100mm please contact our Technical Services Department on **029 2033 7900**

Installation in Minutes

Comparison of installation times with a Catnic lintel and a conventional concrete cast in-situ lintel.

Catnic lintel installation



Total installation time – 2 minutes

Concrete cast in-situ lintel installation



1. Vertical framework erected and secured and a horizontal level taken.

2. Commencement of lintel framework.

3. Continuation of framework.



4. Completion of framework.



5. Completion of lintel after steel reinforcement and pouring of concrete.

 **Total installation time 48 minutes**

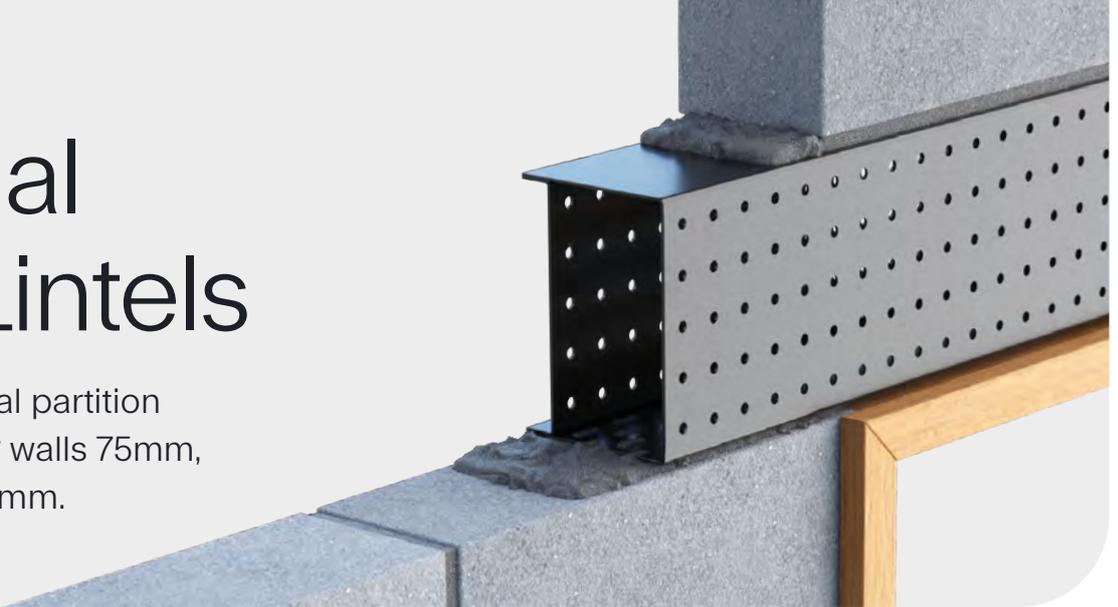
The concrete lintel must be left to cure before continuing with blockwork installation.

6. Wait for concrete to set.

In the time taken to install just one concrete lintel, twenty four Catnic lintels could have been installed.

Internal Wall Lintels

For use in internal partition and loadbearing walls 75mm, 100mm and 140mm.



Internal wall lintels

Catnic lintels for internal partitions and loadbearing walls are available in either 'corrugated', 'channel' or 'box section' to accommodate different loads and openings.

Corrugated

For use in brick or block walls.



CN92 and CN102

Offers a cost effective solution for extra light duty loads. Suitable for nominal domestic loading.

Channel

For use in brick or block walls.



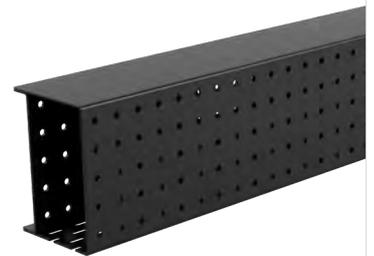
CN100, CN103, CN150, CN152, CN200, CN202 and CN250

Offers a cost effective solution for light duty loads, as previous plus:

- Suitable for masonry/timber floor loads.

Classic Box

For use in brick or block walls.



BSD, BHD and BXD

Universal application caters for all loading condition, as previous plus:

- Direct floor or roof load
- Supports concrete floor loads
- Supports point loads e.g. steel beams
- Suitable for 140mm blockwork

Benefits



Integral Plaster key

Lozenge shaped staggered holes to sides of corrugated profile

Benefits



Duplex Corrosion Protection System

Ensures optimum durability and longevity



Integral Plaster key

Lozenge shaped staggered holes to sides of corrugated profile

Benefits



Duplex Corrosion Protection System

Ensures optimum durability and longevity



Integral Plaster key

With staggered holes to three sides of box profile

Notes

Safe Working Load

The SWL (safe working load) is based on the total UDL (uniform distributed load) over maximum span using 75mm end bearings for **CN92** and **CN102**.

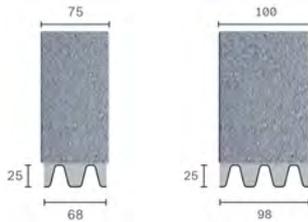
Interior Partition Lintel

75mm and 100mm



75mm and 100mm Interior Solid Walls

Standard lengths are available in increments of 150mm.



	CN92	CN102
STANDARD LENGTHS (mm)	1050-1200	1050-1200
SWL (tonnes)	0.7	0.7
WEIGHT (kg/m)	1.2	1.8
STEEL THICKNESS	1.2	1.2
LINTEL DIMENTION 'W X H' (mm)	65 x 25	98 x 25

Catnic corrugated lintels CN92 and CN102 are designed for internal partition walls only and are manufactured from galvanised steel to BS EN 10327:2004-DX51D+Z275.

These lintels are supplied in plain galvanised steel without powder coating.

Important Note

When using these lintels normal building practice should be observed, in that one course of blockwork (Nominal height 200mm) should be laid on the lintel and the mortar allowed to harden for at least 24 hours before additional loads are applied.

Lintel Brackets

Internal Application

Code reference	Suitable for lintels	Maximum load tonnes/bracket			
SB 01	BSD100, BHD100, BXD100, CN100, CN102, CN103	0.50	-	0.80	-
SB A1/A1	BSD100, BHD100, BXD100, CN100, CN102, CN103	-	0.88	-	0.90
SB 03	CN150, CN152	0.50	-	0.80	-
SB 03/A1	CN150, CN152	-	0.88	-	0.90
SB 08	CN200, CN202	0.50	-	0.77	-
Metal expansion anchors quantity - diameter (mm)		2 No M8	2 No. M10	4 No. M8	4 No M10

* Unperforated brackets can be supplied on request, simply delete "P" from code reference.



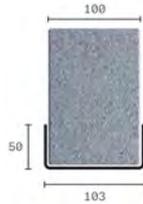
Interior Solid Walls

75mm and 100mm



100mm Interior Solid Walls

Standard lengths are available in increments of 100mm.



CN100A

STANDARD LENGTHS (mm)	900-1200	1350-1500	1600-1800
SWL (tonnes)	0.55	0.42	0.31
WEIGHT (kg/m)	3.0	3.0	3.0
SHEET THICKNESS (mm)	2.0	2.0	2.0

Standard lengths are available in increments of 100mm.

CN100B

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400
SWL (tonnes)	0.80	0.58	0.38	0.24	0.18
WEIGHT (kg/m)	3.7	3.7	3.7	3.7	3.7
SHEET THICKNESS (mm)	2.5	2.5	2.5	2.5	2.5



Standard lengths are available in increments of 100mm.

CN100C

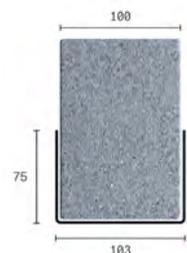
STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
SWL (tonnes)	1.12	0.66	0.44	0.31	0.23	0.16	0.13
WEIGHT (kg/m)	4.7	4.7	4.7	4.7	4.7	4.7	4.7
SHEET THICKNESS (mm)	3.1	3.1	3.1	3.1	3.1	3.1	3.1



Standard lengths are available in increments of 100mm.

CN103C

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
SWL (tonnes)	1.63	1.25	1.00	0.86	0.64	0.47	0.38
WEIGHT (kg/m)	5.9	5.9	5.9	5.9	5.9	5.9	5.9
SHEET THICKNESS (mm)	3.1	3.1	3.1	3.1	3.1	3.1	3.1



Extra Light Duty

Light Duty

Light Duty

Light Duty

Interior Solid Walls

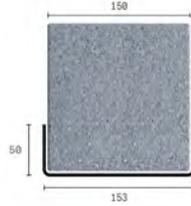
150mm



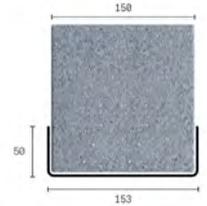
150mm Interior Solid Walls

Light Duty

Standard lengths are available in increments of 100mm.



Standard lengths are available in increments of 100mm.



CN150A

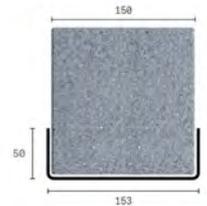
STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800
SWL (tonnes)	0.48	0.37	0.27
WEIGHT (kg/m)	3.7	3.7	3.7
SHEET THICKNESS (mm)	2.0	2.0	2.0

CN150B

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400
SWL (tonnes)	0.76	0.58	0.41	0.27	0.19
WEIGHT (kg/m)	4.7	4.7	4.7	4.7	4.7
SHEET THICKNESS (mm)	2.5	2.5	2.5	2.5	2.5

Light Duty

Standard lengths are available in increments of 100mm.

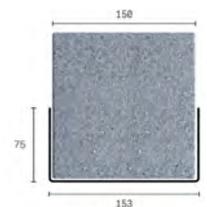


CN150C

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
SWL (tonnes)	1.22	0.79	0.52	0.37	0.28	0.19	0.14
WEIGHT (kg/m)	5.9	5.9	5.9	5.9	5.9	5.9	5.9
SHEET THICKNESS (mm)	3.1	3.1	3.1	3.1	3.1	3.1	3.1

Light Duty

Standard lengths are available in increments of 100mm.



CN152C

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
SWL (tonnes)	1.63	1.25	1.00	0.86	0.64	0.47	0.38
WEIGHT (kg/m)	7.1	7.1	7.1	7.1	7.1	7.1	7.1
SHEET THICKNESS (mm)	3.1	3.1	3.1	3.1	3.1	3.1	3.1

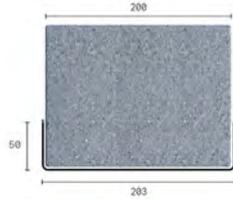
Interior Solid Walls

200mm

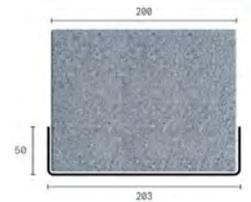


200mm Interior Solid Walls

Standard lengths are available in increments of 100mm.



Standard lengths are available in increments of 100mm.



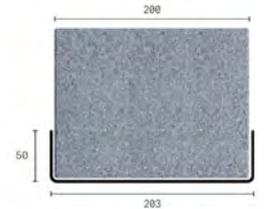
CN200A

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800
SWL (tonnes)	0.62	0.48	0.35
WEIGHT (kg/m)	4.4	4.4	4.4
SHEET THICKNESS (mm)	2.0	2.0	2.0

CN200B

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400
SWL (tonnes)	0.77	0.59	0.41	0.29	0.22
WEIGHT (kg/m)	5.6	5.6	5.6	5.6	5.6
SHEET THICKNESS (mm)	2.5	2.5	2.5	2.5	2.5

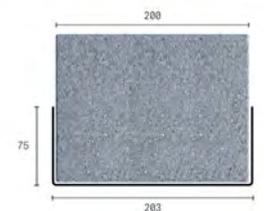
Standard lengths are available in increments of 100mm.



CN200C

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
SWL (tonnes)	1.05	0.80	0.53	0.38	0.28	0.19	0.14
WEIGHT (kg/m)	7.1	7.1	7.1	7.1	7.1	7.1	7.1
SHEET THICKNESS (mm)	3.1	3.1	3.1	3.1	3.1	3.1	3.1

Standard lengths are available in increments of 100mm.



CN202C

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
SWL (tonnes)	1.63	1.25	1.00	0.86	0.64	0.47	0.37
WEIGHT (kg/m)	8.5	8.5	8.5	8.5	8.5	8.5	8.5
SHEET THICKNESS (mm)	3.1	3.1	3.1	3.1	3.1	3.1	3.1

Interior Solid Walls

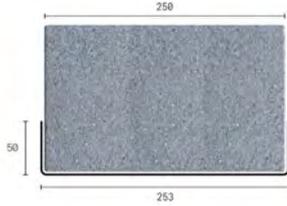
250mm



250mm Interior Solid Walls

Light Duty

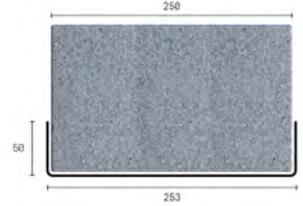
Standard lengths are available in increments of 100mm.



CN250A

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800
SWL (tonnes)	0.62	0.48	0.35
WEIGHT (kg/m)	5.4	5.4	5.4
SHEET THICKNESS (mm)	2.0	2.0	2.0

Standard lengths are available in increments of 100mm.

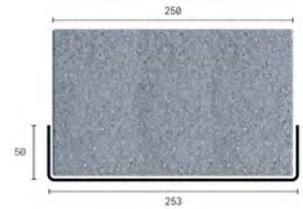


CN250B

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400
SWL (tonnes)	0.77	0.59	0.41	0.29	0.21
WEIGHT (kg/m)	6.7	6.7	6.7	6.7	6.7
SHEET THICKNESS (mm)	2.5	2.5	2.5	2.5	2.5

Light Duty

Standard lengths are available in increments of 100mm.

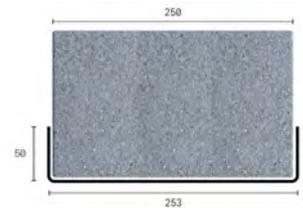


CN250C

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
SWL (tonnes)	1.05	0.80	0.53	0.38	0.28	0.19	0.14
WEIGHT (kg/m)	8.6	8.6	8.6	8.6	8.6	8.6	8.6
SHEET THICKNESS (mm)	3.1	3.1	3.1	3.1	3.1	3.1	3.1

Light Duty

Standard lengths are available in increments of 100mm.



CN252C

STANDARD LENGTHS (mm)	900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
SWL (tonnes)	1.63	1.25	1.00	0.86	0.64	0.47	0.37
WEIGHT (kg/m)	9.5	9.5	9.5	9.5	9.5	9.5	9.5
SHEET THICKNESS (mm)	3.1	3.1	3.1	3.1	3.1	3.1	3.1

Interior Solid Walls

100mm and 140mm



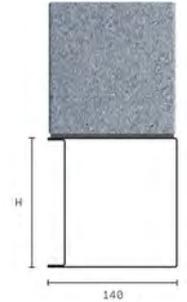
100mm Interior Solid Walls

Standard lengths are available in increments of 150mm at lengths up to 3000mm, 300mm at lengths from 3000mm to 4800mm (including 4575mm, but excluding 4500mm).



140mm Interior Solid Walls

Standard lengths are available in increments of 150mm at lengths up to 3000mm, 300mm at lengths from 3000mm – 4800mm (including 4575mm, but excluding 4500mm).



Standard Duty

BSD100

STANDARD LENGTHS (mm)	750-2100	2250-2700	2850-3600	3900-4575	4800
SWL (kN)	19	20	29	29	27
WEIGHT (kg/m)	6.0	7.5	12.4	15.7	15.7
NOMINAL HEIGHT 'H' (mm)	143	143	219	219	219

BSD140

STANDARD LENGTHS (mm)	1050-2100	2250-2700	2850-3600	3900-4575	4800
SWL (kN)	19	20	29	29	27
WEIGHT (kg/m)	6.9	8.7	13.1	16.1	16.2
NOMINAL HEIGHT 'H' (mm)	143	143	219	219	219

Heavy Duty



BHD100

STANDARD LENGTHS (mm)	750-1500	1650-2100	2250-2700	2850-3600	3900-4800
SWL (kN)	29	39	39	51	51
WEIGHT (kg/m)	7.5	9.4	12.4	15.7	18.8
NOMINAL HEIGHT 'H' (mm)	143	143	219	219	295



BHD140

STANDARD LENGTHS (mm)	1050-1500	1650-2100	2250-2700	2850-3600	3900-4800
SWL (kN)	29	39	39	51	51
WEIGHT (kg/m)	8.7	10.9	13.1	16.2	20.5
NOMINAL HEIGHT 'H' (mm)	143	143	219	219	295

Extra Heavy Duty



BXD100

STANDARD LENGTHS (mm)	750-1500	1650-2700
SWL (kN)	47	59
WEIGHT (kg/m)	9.4	15.7
NOMINAL HEIGHT 'H' (mm)	143	219



BXD140

STANDARD LENGTHS (mm)	1050-1500	1650-2700
SWL (kN)	47	59
WEIGHT (kg/m)	10.9	16.2
NOMINAL HEIGHT 'H' (mm)	143	219

Solid Wall Lintels

For use in brick or block walls 200mm to 215mm.



External solid wall lintels

External solid wall lintels are manufactured from galvanised steel and powder coated for extra protection. Available in 'classic box' or two-piece inverted 'T' styles.

Classic Box

For use in 200mm and 215mm solid exterior walls



- Saves on brickwork
- Resists twisting during construction
- Instant full load use
- Box profile is designed to carry full load of wet masonry as soon as it is installed

Benefits



Duplex corrosion protection

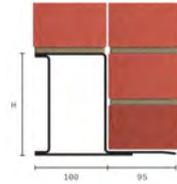
Ensures optimum durability and longevity

200-215mm External Solid Walls



200mm and 215mm Exterior Solid Walls

Standard lengths are available in 150mm increments.



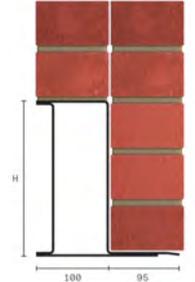
CN71A

STANDARD LENGTHS (mm)	900-1500	1650-2100	2250-2700
SWL (kN)	29	27	20
WEIGHT (kg/m)	9.6	9.6	9.6
NOMINAL HEIGHT 'H' (mm)	143	143	143



200mm and 215mm Exterior Solid Walls

Standard lengths are available in 150mm increments up to 3000mm, 300mm at lengths 3000mm to 3600mm.



CN81B

STANDARD LENGTHS (mm)	2100-3600
SWL (kN)	29
WEIGHT (kg/m)	15.1
NOMINAL HEIGHT 'H' (mm)	219

Light Duty

Standard lengths are available in 150mm increments up to 3000mm, 300mm at lengths 3000mm to 4800mm (including 4575mm, but excluding 4500mm).



CN81C

STANDARD LENGTHS (mm)	2100-2700	2850-3300	3600	3900-4575	4800
SWL (kN)	54	47	39	29	26
WEIGHT (kg/m)	18.2	18.2	18.2	18.2	18.2
NOMINAL HEIGHT 'H' (mm)	219	219	219	219	219

Heavy Duty

Cavity Wall Lintels

Several styles are available from Catnic for use in cavity wall construction, these include our traditional standard range together with our latest innovation Thermally Broken Lintels.



Cavity Wall Lintels

Two styles are available from Catnic for use in cavity wall construction.

Standard Duty



CG

- Triangulated masonry load
- Supporting uniformly distributed masonry load
- Supporting uniformly distributed timber floor and roof loads
- Suitable for fair faced inner leaf masonry

Benefits



Materials used in Lintels

The CG, TS ranges are formed from galvanised steel, then powder coated



Built-in DPC

Saves time in construction and means cavity is easy to clean without risk of damage to DPC (excludes TBL & short span CG ranges)



Duplex corrosion protection

Ensures optimum durability and longevity



Integral Plaster key

With staggered slots applied to the inner flange and ribbed underside of insulation



Continuous insulation

Maximising thermal efficiency, minimising cold bridging

Notes

Concrete Floor Loads

When using the Catnic CH, TH, CX, TX open back ranges with concrete floors, always ensure that the blockwork is built tight against the inner vertical face of the lintel and that a mortar joint is added to the top of the blockwork so that the floor units have an even spread over the inner flange of the lintel. For guidance on installation refer to page 16.

Achieving Loading Figures

To achieve the CH, TH, CX, TX loading figures indicated, lintels must be built-in as illustrated, ensuring that the blockwork infill is well-jointed during construction and compatible with the strength of the masonry above individual consideration.

Easy-to-use open back profile

Allows masonry to be built up continuously on both outer and inner leaf.

Cavity Wall Lintels

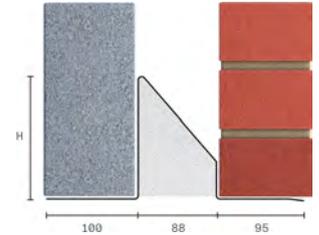
90-105mm Cavity Wall



100-115mm Inner Leaf

Standard Duty

Standard lengths are available in 150mm increments up to 3000mm, 300mm at lengths from 3000mm to 3600mm.

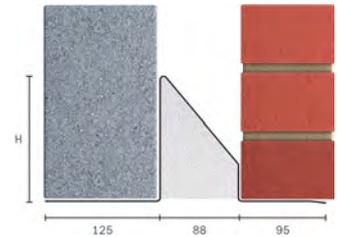


CG90/100

STANDARD LENGTHS (mm)	750 - 1500	1650 - 1800	1950 - 2100	2250 - 2400	2550 - 2700	2850 - 3600
SWL 1:1/3:1 (kN)	15	18	20	22	26	26
WEIGHT (kg/m)	5.4	6.1	7.6	8.9	10.2	13.0
NOMINAL HEIGHT 'H' (mm)	90	140	140	180	220	220

Standard Duty

Standard lengths are available in 300mm increments.



CG90/125

STANDARD LENGTHS (mm)	900 - 1200	1500 - 1800	2100 - 2400	2700 - 3000
SWL 1:1/3:1 (kN)	12	17	20	26
WEIGHT (kg/m)	8.1	8.1	9.7	13.3
NOMINAL HEIGHT 'H' (mm)	140	140	180	220

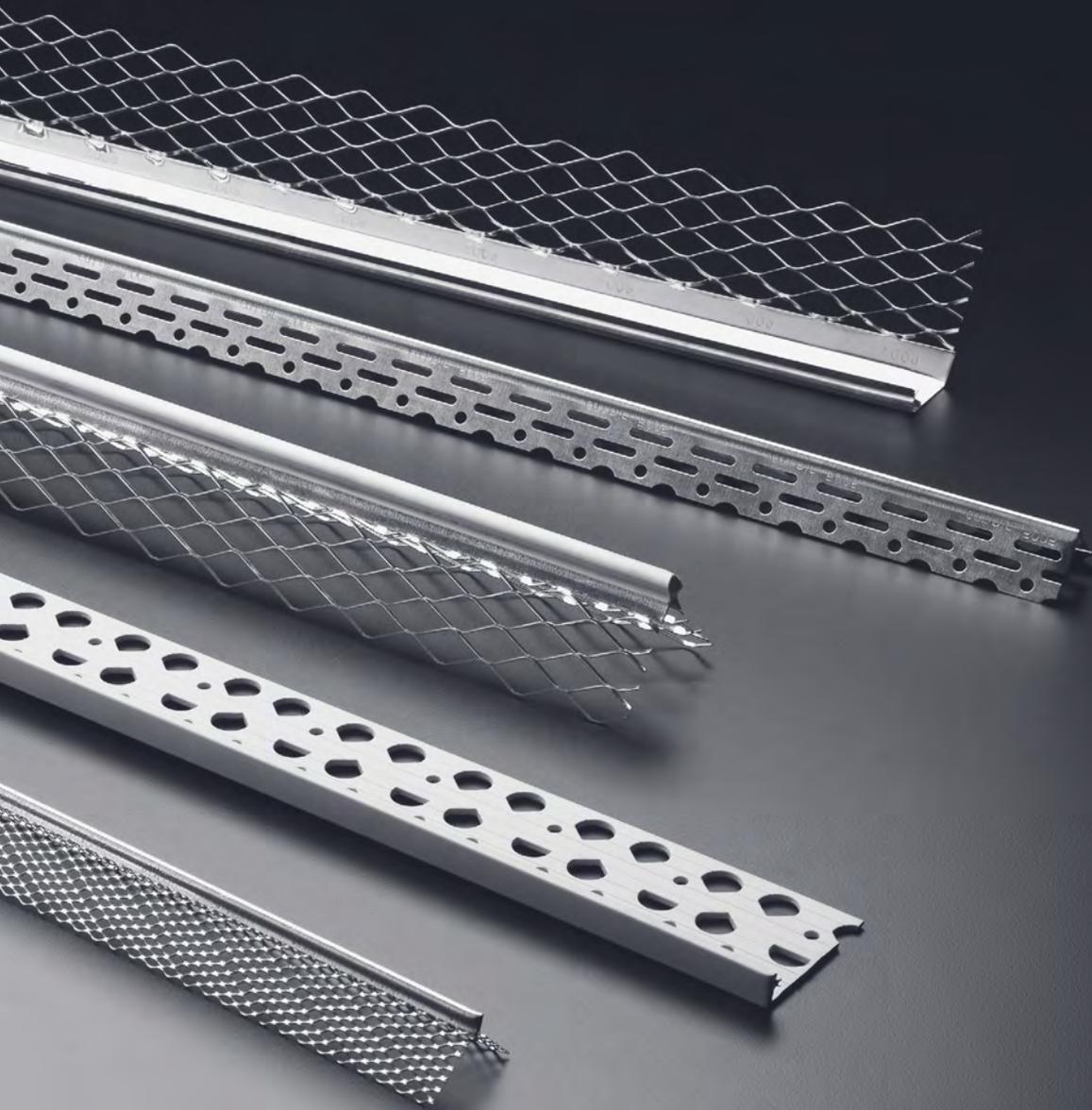
Features of Catnic Plaster Bead & Mesh

As a professional, we know that you care about the finish. The tiny details that make a good job great. The sharp lines and beautiful edges that give you pride in your work.

That's why we created the Catnic Plastering range. Not made for the hobbyist. Our products are made with precision from superior materials, for plasterers who care about the finish.

Stainless steel, PVCu and galvanised beads are all available as part of our extensive range. With a wide selection of render, drywall and decorative applications to choose from, together with expanded metal lath.





Steel Plaster Beads

Our comprehensive range of Plaster Beads are precision engineered and simple to use. Fixing by nail or plaster dab is straightforward and fast, creating arrises, edges, corners and joints that are easy to form and resistant to chipping, cracking and impact damage.

Where to Install



Internal Applications

For internal applications galvanised steel plaster bead and mesh products can be used. In normal circumstances, matured plasterwork may be regarded as dry and therefore non-corrosive.

Risks of corrosion in galvanised accessories only normally becomes apparent during the initial plaster drying out period, which should be kept to a minimum, and subsequently during periods of heavy condensation.

The use of sand or water contaminated with soluble salts in plastering mixes should be avoided as should soluble chlorides as they are likely to increase the risk of metal corrosion. The presence of sea salts in sand used in plastering which is in contact with galvanised accessories will often cause rust staining and should therefore be avoided.

Galvanised steel products are manufactured to BS EN 10346: 2015-DX51+Z275.



Galvanised beads

For internal use



External Applications

In external applications and conditions where heavy condensation, persistent damp or regular exposure to moisture are likely, stainless steel, PVCu or PVCu nosed products should be specified.

In general, care should be taken to ensure that metal accessories are kept dry, and distortion is prevented during storage and handling. Care should also be taken to prevent mechanical damage to the galvanised coating. Stainless steel products are for use specifically with cement-based renders.



Stainless Steel beads PVCU Beads

For external use

How to Install

The most appropriate Catnic bead should be chosen to suit the application, required plaster depth and the desired finish of the work.

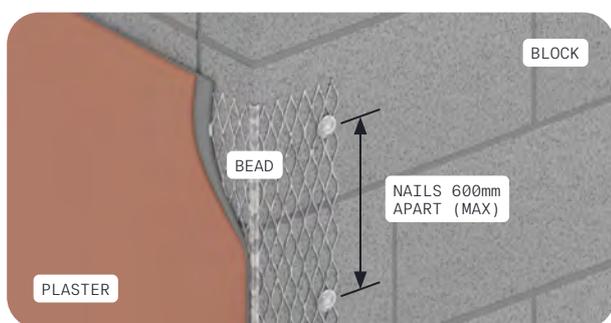
The application and installation of Catnic beads should be in accordance with BS 8481:2006 and BS EN 13914-2:2016 Code of Practice for internal plastering and BS EN 13914-1:2016 Code of Practice for external renderings.

Before installation all backgrounds should be free of deleterious substances such as mould, oil and grease and be adequately prepared to accommodate the finished surface, all beading and attendant fixings at the specified depths.

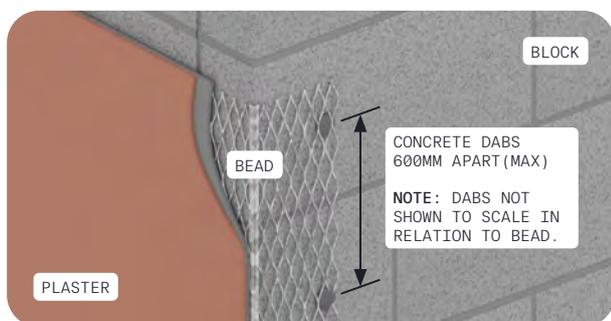
Catnic beads should be fixed at a nominal 600mm spacing by embedding with dabs of the same material used for the undercoat or corrosion resistant galvanised nails for galvanised bead and stainless steel nails for stainless steel bead.

Beads may be trimmed to length using tinman's shears across the wings and a fine-toothed saw across bead noses.

Use one of the following methods to fix Catnic angle beads:



A Using galvanised or stainless steel nails (compatible with bead material) complying with BS 1202: Part 1, fixed at a maximum of 600mm apart. When nailing to a solid background the line of the bead will follow the line of the background.



B Pressing the bead onto dabs of the same material as the undercoat, dabs should be applied at a maximum of 600mm apart. This method will even out minor irregularities in the line of the background, although the line of the bead will tend to generally follow the line of the background.

C When beads are used with metal lath backgrounds, galvanised or stainless steel tying wire may be used to secure the beads in position. Soft galvanised wire to BS EN 10244-2:2023 and soft stainless steel wire complying with BS EN 10088-3:2023 should be used to match the bead and lath materials. All wires should be twisted tightly and the ends bent away from the finished face of the coating.

Corrosion Protection

In normal circumstances, matured plasterwork may be regarded as dry and therefore non-corrosive. Risks of corrosion in galvanised accessories only normally become apparent during the initial plaster drying out period, which should be kept to a minimum, and subsequently during periods of heavy condensation. All backgrounds should be free of deleterious substances such as mould, oil and grease and be adequately prepared to accommodate the finished surface, all beading and

attendant fixings at the specified depths. The use of sand or water contaminated with soluble salts in plastering mixes should be avoided as should soluble chlorides, as they are likely to increase the risk of metal corrosion. The presence of sea salts in sand used in plastering which is in contact with galvanised accessories will often cause rust staining and should therefore be avoided. In external applications and, in conditions where heavy condensation, persistent damp or regular exposure to

moisture are likely, stainless steel, PVCu or PVCu nosed products should be specified. In general, care should be taken to ensure that metal accessories are kept dry and distortion is prevented during storage and handling. Care should also be taken to prevent mechanical damage to the galvanised coating. Stainless steel products are for use specifically with cement based renders. Galvanised steel products are manufactured to BS EN 10346: 2015-DX51+Z275.

Internal Plaster Beads

Our range of galvanised plaster beads is designed for internal use only.

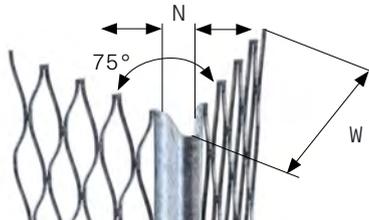


Galvanised Beads



Angle Beads

Provides true and straight corners which are resistant to chipping and cracking giving strength and protection against everyday knocks.



Standard Angle Bead

STD

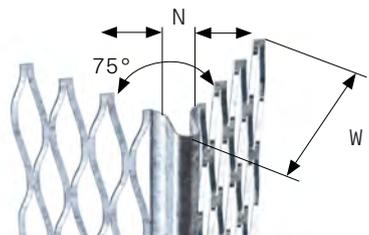
2.4m, 3.0m LENGTHS

50 LENGTHS/PACK

N = 5mm WIDE

W = 53mm

12-19mm PLASTER THICKNESS



Supasave Angle Bead

SS

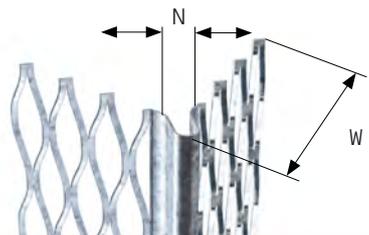
2.4m, 3.0m LENGTHS

50 LENGTHS/PACK

N = 5mm WIDE

W = 45mm

13mm PLASTER THICKNESS



Wide Wing Angle Bead

WW 3.0

3.0m LENGTHS

50 LENGTHS/PACK

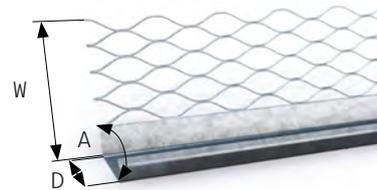
N = 5mm WIDE

W = 65mm

12-19mm PLASTER THICKNESS

Renderstop Beads (Bell Cast Beads)

Renderstop beads are used to obtain a neat, bell cast lower edge to external finishes and helps to protect masonry against run-off water.



Renderstop Bead

RS

3.0m LENGTH

50 LENGTHS/PACK

W = 48mm WIDE

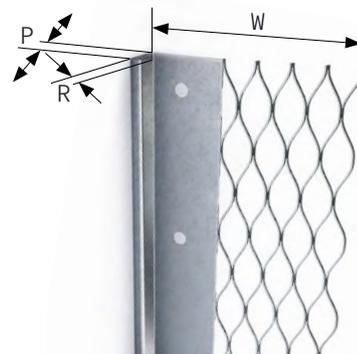
D = 25mm

A = 120°

19mm PLASTER THICKNESS

Plasterstop Beads

Provides clean, neat edges at openings or abutments onto other wall surfaces or ceiling finishes.



Plasterstop Bead

PS10

2.4m, 3.0m LENGTHS

50 LENGTHS/PACK

W = 58mm

R = 5mm

P = 10mm

10mm PLASTER THICKNESS

PS13

2.4m, 3.0m LENGTHS

50 LENGTHS/PACK

W = 55mm

R = 5mm

P = 13mm

13mm PLASTER THICKNESS

PS16

3.0m LENGTHS

50 LENGTHS/PACK

W = 60mm

R = 5mm

P = 16mm

16mm PLASTER THICKNESS

PS19

3.0m LENGTHS

50 LENGTHS/PACK

W = 57mm

R = 5mm

P = 19mm

19mm PLASTER THICKNESS



Galvanised beads

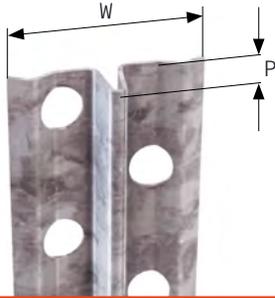
To be used for internal application only. To help prevent corrosion and speed up the drying time, please ensure sufficient ventilation.

Galvanised Beads



Depth Gauge Beads

Provides a quick and accurate means of ensuring consistent, minimum plaster depths as plaster is simply 'ruled off' to leave the required thickness.

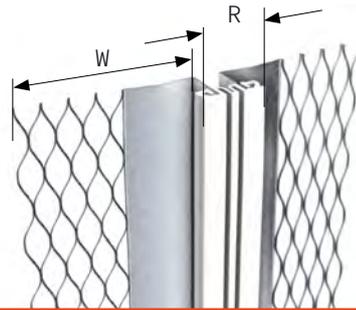


Depth Gauge Bead

DG6	DG10
3.0m LENGTH	3.0m LENGTH
50 LENGTHS/PACK	50 LENGTHS/PACK
W = 21mm	W = 23mm
P = 6mm	P = 10mm
6mm PLASTER THICKNESS	10mm PLASTER THICKNESS

Movement Beads

Allows for movement between adjoining surfaces resulting in differential expansion and expansion within the plaster / rendered area. Allows movement of +/- 3mm. Movement Beads should be installed at no greater than 5m intervals. Movement Beads should not be used over structural movement /control joints.

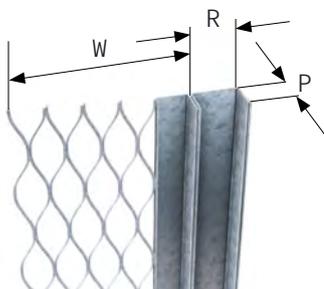


Movement Bead

MB10	MB13	MB16	MB19
GALVANISED WITH PVCu STRIP			
3.0m LENGTH	3.0m LENGTH	3.0m LENGTH	3.0m LENGTH
10 LENGTHS/PACK	10 LENGTHS/PACK	10 LENGTHS/PACK	10 LENGTHS/PACK
W = 58mm	W = 55mm	W = 60mm	W = 25mm
R = 25mm	R = 25mm	R = 25mm	R = 25mm
12mm PLASTER THICKNESS	15mm PLASTER THICKNESS	18mm PLASTER THICKNESS	21mm PLASTER THICKNESS

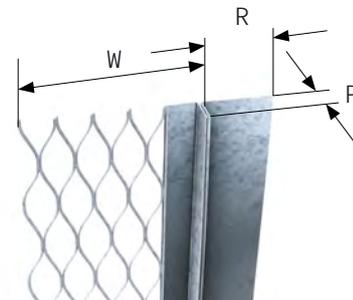
Architrave Beads (Shadow Line Beads)

Gives a shadow line decorative effect for aesthetic purposes and creates a clean division between varying wall finishes.



Architrave with Flange (abutting)

ARC10/WF	ARC13/WF
3.0m LENGTH	3.0m LENGTH
25 LENGTHS/PACK	25 LENGTHS/PACK
W = 37mm	W = 37mm
R = 12mm	R = 12mm
P = 10mm	P = 13mm
10mm PLASTER THICKNESS	13mm PLASTER THICKNESS



Architrave without Flange (engaging)

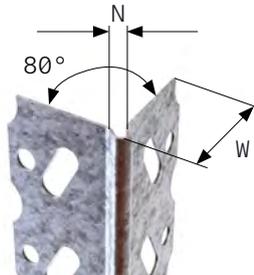
ARC10/WO	ARC13/WO
3.0m LENGTH	3.0m LENGTH
25 LENGTHS/PACK	25 LENGTHS/PACK
W = 37mm	W = 37mm
R = 20mm	R = 20mm
P = 10mm	P = 13mm
10mm PLASTER THICKNESS	13mm PLASTER THICKNESS

Galvanised Beads



Drywall Angle Bead and Thin Coat Plaster Applications

Designed for single/thin coat plasterwork, enabling a thin coat finish of just 3mm, alternatively Drywall Angle Bead and Micromesh Angle Bead allow for a 6mm plaster.



Drywall Angle Bead

DW

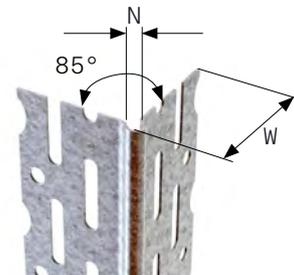
2.4m, 3.0m LENGTHS

50 LENGTHS/PACK

N = 3.1mm

W = 25mm

6mm PLASTER THICKNESS



Drywall Thin Coat Bead

DWTC

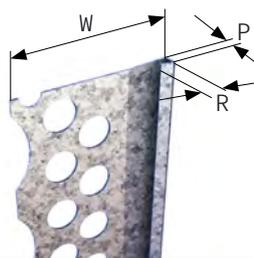
2.4m, 3.0m LENGTHS

50 LENGTHS/PACK

N = 3mm

W = 23mm

3mm PLASTER THICKNESS



Drywall Stop Bead

DWSB3

DWSB6

2.4m, 3.0m LENGTHS

3.0m LENGTH

50 LENGTHS/PACK

50 LENGTHS/PACK

W = 30mm

W = 30mm

R = 3mm

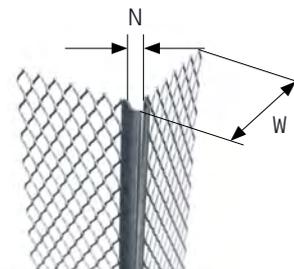
R = 3mm

P = 3mm

P = 6mm

3mm PLASTER THICKNESS

6mm PLASTER THICKNESS



Micromesh Angle Bead

MM

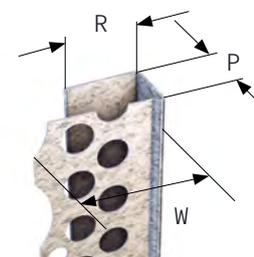
2.4m, 3.0m LENGTHS

50 LENGTHS/PACK

N = 3.5mm WIDE

W = 25mm

6mm PLASTER THICKNESS



Plasterboard Edging Bead

PBEB 10

PBEB 13

PBEB 15

3.0m LENGTH

3.0m LENGTH

3.0m LENGTH

50 LENGTHS/PACK

50 LENGTHS/PACK

50 LENGTHS/PACK

W = 25mm

W = 25mm

W = 25mm

R = 12mm

R = 10mm

R = 9mm

P = 9.5mm

P = 12.5mm

P = 14.5mm

2mm PLASTER THICKNESS

2mm PLASTER THICKNESS

2mm PLASTER THICKNESS



Galvanised beads

To be used for internal application only. To help prevent corrosion and speed up the drying time, please ensure sufficient ventilation.

External Render Beads

Our range of stainless steel and PVCu plaster bead is designed for use in external applications and conditions where heavy condensation, persistent damp or regular exposure to moisture are likely.

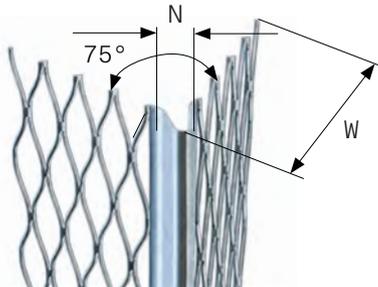


Stainless Steel Beads



Angle Beads

Provides true and straight corners which are resistant to chipping and cracking giving strength and protection against everyday knocks.



Standard Angle Bead

STD 3.0/SS

3.0m LENGTH

50, 10 LENGTHS/PACK

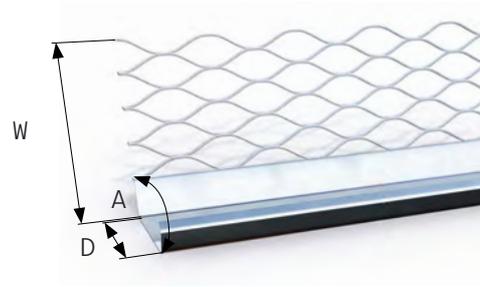
N = 5mm

W = 53mm

12-19mm RENDER THICKNESS

Renderstop Bead

Used to obtain a neat, bell cast lower edge to external finishes and helps to protect masonry against run-off water.



Renderstop Bead

RS3.0/SS

3.0m LENGTH

50, 10 LENGTHS/PACK

W = 48mm WIDE

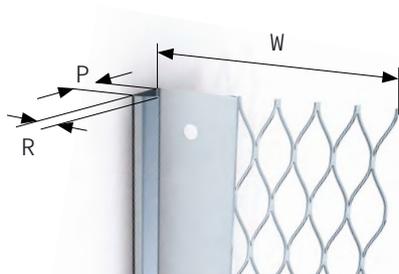
D = 25mm

A = 120°

19mm RENDER THICKNESS

Plasterstop Beads

Provides clean, neat edges at openings or abutments onto other wall surfaces or ceiling finishes.



Plasterstop Bead

PS10/3.0/SS

3.0m LENGTH

50, 10 LENGTHS/PACK

W = 58mm

R = 3mm

P = 10mm

10mm RENDER THICKNESS

PS13/3.0/SS

3.0m LENGTH

50, 10 LENGTHS/PACK

W = 55mm

R = 3mm

P = 13mm

13mm RENDER THICKNESS

PS16/3.0/SS

3.0m LENGTH

50, 10 LENGTHS/PACK

W = 60mm

R = 3mm

P = 16mm

16mm RENDER THICKNESS

PS19/3.0/SS

3.0m LENGTH

50, 10 LENGTHS/PACK

W = 57mm

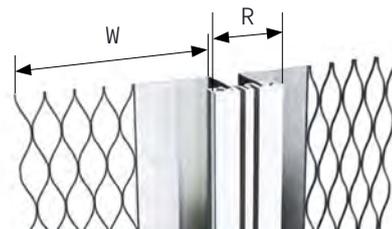
R = 3mm

P = 19mm

19mm RENDER THICKNESS

Movement Beads

Allows for movement between adjoining surfaces resulting in differential expansion and expansion within the plaster/rendered area. Allows movement of +/- 3mm. Movement Beads should be installed at no greater than 5m intervals. Movement Beads should not be used over structural movement/control joints.



Movement Bead

MB10SS

3.0m LENGTH

10 LENGTHS/PACK

W = 58mm

R = 25mm

12mm RENDER THICKNESS

MB13SS

3.0m LENGTH

10 LENGTHS/PACK

W = 55mm

R = 25mm

15mm RENDER THICKNESS

MB16SS

3.0m LENGTH

10 LENGTHS/PACK

W = 60mm

R = 25mm

18mm RENDER THICKNESS

MB19SS

3.0m LENGTH

10 LENGTHS/PACK

W = 25mm

R = 25mm

21mm RENDER THICKNESS



Quality

Manufactured from Stainless Steel to BS EN 10088-2: 2014-1.4016. All beads shown are manufactured in accordance with BS EN 13658-2:2005.

PVCu Plaster Beads

Catnic PVCu plaster beads provide all the benefits of traditional metal beads, but with the added advantages of being light, rigid, non-corrosive and easy to use, providing a cost-effective way to comply with the latest regulations whilst offering an elegant solution for the perfect finish.

Features of PVCu plaster beads

Designed as an economical alternative to stainless steel, PVCu beads are designed to be used externally, where galvanised beads are not recommended, and internally in areas where high moisture or damp exist.

PVCu beads put a stop to the need for remedial work on internal applications where staining can sometimes be found with the use of galvanised beads as a result of prolonged drying out.

Material

Manufactured from virgin unplasticised polyvinyl chloride (PVCu) which is impact-resistant, external window grade and UV stable.

- Eliminates cold-bridging
- Will not deteriorate during the lifetime of the coating

High Durability

- Non-corrosive
- Impact resistant
- Withstands most site damage
- Exterior grade UV resistant
- Unaffected by weathering
- Chemical attack resistant

Ease of Use

- Simple to install
- Easy to cut
- Lightweight and safe handling
- No sharp edges to cause injury

Excellent Adhesion

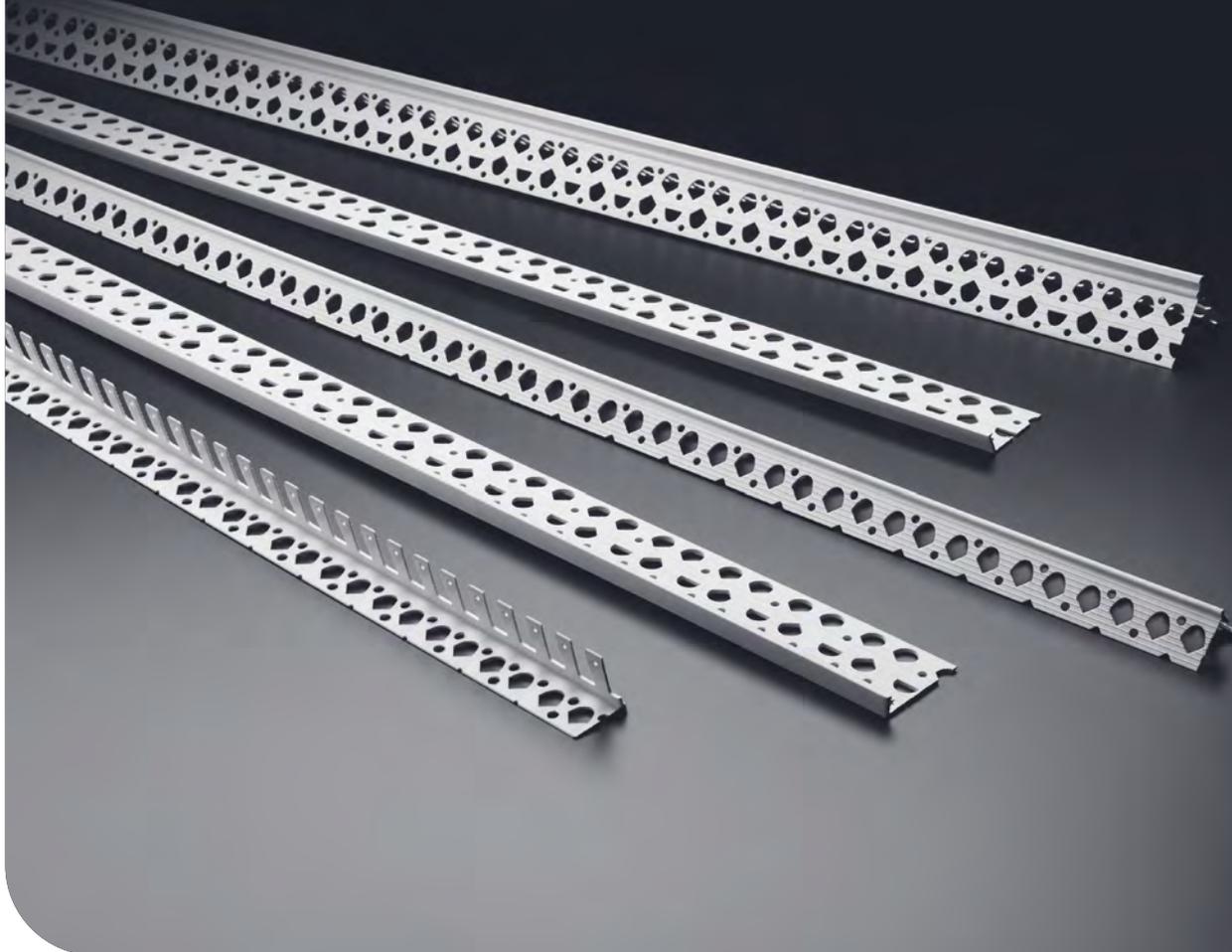
- Precision engineered perforation pattern
- 0.25mm high ribs at regular intervals
- Pro-Grip™ adhesion system for a stronger bond



Pro-Grip™

The range of PVCu Plasterer's beads from Catnic come complete with the Pro-Grip™ innovative adhesion system for a stronger bond.

Tiny grooves engineered into the face of the bead, ribs and undercut perforations increasing the surface area creating a stronger bond with the plaster or render. The Pro-Grip™ adhesion system prevents slippage often found with traditional PVCu beads, thus increasing the speed of application.



How to Install



Internal Applications

Secure beads with plaster dabs or stainless steel staples every 600mm. When fixing, care should be taken not to distort the beads. In damp environments use only adhesive mortar dabs to secure.



External Applications

Use only adhesive mortar dabs to secure. Non-stainless mechanical pre-fixings should be removed before rendering. Beads used in a vertical plane plumb straight and dub out where necessary. Horizontal beads ideally should be set on a continuous bed of adhesive mortar. When used in Thermal Insulation Systems, please observe the system specifications.

Use fine toothed hacksaw or tin snips when cutting to length. PVCu Pipe Weld adhesive can be used for butt joints in conjunction with link pegs where required. Beads may be easily butted together using plastic link pegs (available for purchase on request). Store flat, away from heat and direct sun.

Catnic's PVCu Beads conform to BS EN 13914-1: 2016.

Colours

Catnic offer a great range of colours to suit a variety of plastering and render applications giving flexibility for both new build and refurbishment projects.

N.B. All colours are matched as closely as manufacturing and printing techniques allow.

Need another colour?

Simply supply us with a RAL number and Catnic can match PVCu Beads to suit any render or plaster colour.*



White
RAL 9003



Ivory
RAL 1015



Terracotta
RAL 8203



Grey
RAL 7037



Brown
RAL 8014



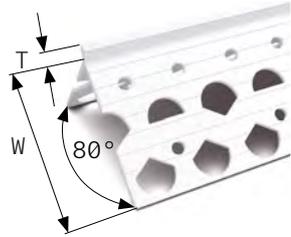
Black
RAL 9005

*Terms and conditions apply.

PVCu Plaster Beads

Angle Beads

For use on all plastered and rendered corners where a true, sharp corner is required. Its strong rigid arris protects and reinforces plaster where it is most vulnerable.

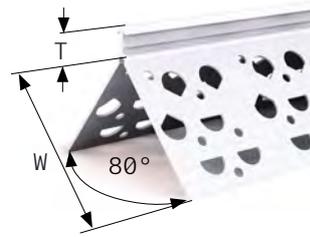


PVCu Angle Beads			
PAB10/2.5	PAB12/2.5*	PAB15/2.5	PAB20/2.5*
2.5m LENGTH	2.5m LENGTH	2.5m LENGTH	2.5m LENGTH
50 LENGTHS/PACK	40 LENGTHS/PACK	30 LENGTHS/PACK	30 LENGTHS/PACK
T = 10mm	T = 12mm	T = 15mm	T = 19mm
W = 40mm	W = 40mm	W = 40mm	W = 40mm
8-10mm PLASTER THICKNESS	8-12mm PLASTER THICKNESS	13-15mm PLASTER THICKNESS	16-19mm PLASTER THICKNESS

*MADE TO ORDER

PVCu Twin Nose Angle Beads

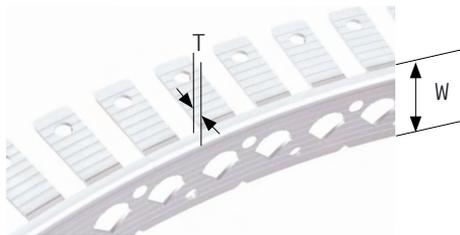
Designed for twin-coat render work. The first nose acts as a gauge for a scratch coat and the second nose acts as a depth gauge for the finishing coat.



PVCu Twin Nose Angle Beads	
PTN12/2.5	
2.5m LENGTH	30 LENGTHS/PACK
T = 12mm	W = 56mm
8-12mm PLASTER THICKNESS	

PVCu Thin Coat Arch Beads

Readily bends to create curves and arch forms for decorative plaster requirements in thin coat and dry-lining applications.

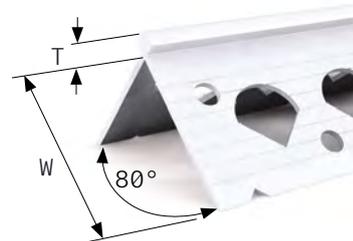


PVCu Arch Beads	
PAR03/2.5*	
2.5m LENGTHS	50 LENGTHS/PACK
T = 3mm	W = 24mm
3mm PLASTER THICKNESS	

*MADE TO ORDER

PVCu Thin Coat Angle Beads

Provides a true, clean corner for plasterboard or any smooth background. Protects and reinforces plasterboard joints to minimise cracking.

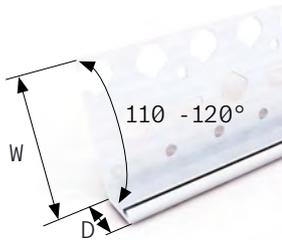


PVCu Thin Coat Angle Beads	
PAB03/2.5	
2.5m LENGTH	50 LENGTHS/PACK
T = 3mm	W = 24mm
3mm PLASTER THICKNESS	

PVCu Plaster Beads

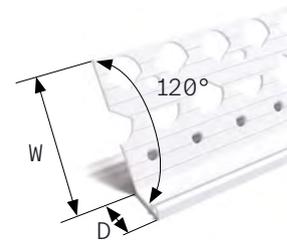
PVCu Drip Beads

Used above doors, windows and at DPC level offering a profile flush with the rest of the render. The Drip Bead prevents the retention of water that can often bring staining at the bottom of the render.



PVCu Renderstop Bead (Bell Cast Bead)

Designed to deliver a gentle gradient at the base of the render, it is used above doors, windows and at DPC level to allow rainwater to drain clear of the underlying substrate.



PVCu Drip Beads				PVCu Bell Cast Beads	
PDB08/2.5	PDB10/2.5	PDC16/2.5	PDB19/2.5	PBC15/2.5*	PBC20/2.5
2.5m LENGTH	2.5m LENGTH	2.5m LENGTH	2.5m LENGTH	2.5m LENGTH	2.5m LENGTH
50 LENGTHS/ PACK	50 LENGTHS/ PACK	50 LENGTHS/ PACK	50 LENGTHS/ PACK	50 LENGTHS/ PACK	50 LENGTHS/ PACK
D = 8mm	D = 10mm	D = 15mm	D = 20mm	D = 20mm	D = 25mm
W = 45mm	W = 45mm	W = 45mm	W = 45mm	W = 45mm	W = 45mm
8mm PLASTER THICKNESS	10mm PLASTER THICKNESS	16mm PLASTER THICKNESS	19mm PLASTER THICKNESS	10-16mm PLASTER THICKNESS	20-22mm PLASTER THICKNESS
				*MADE TO ORDER	

PVCu Movement Beads

Used where the underlying substrate changes, or where minor movement in the structure beneath the render is expected. Movement beads can also be used where changes in render colour are specified. Movement beads should NOT be used over structural movement joints.

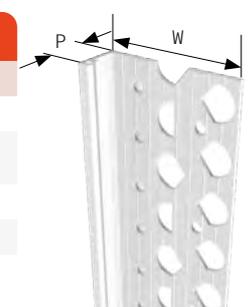
PVCu Movement Beads		
PMBS06/2.5	PMBS10/2.5*	PMBS15/2.5*
2.5m LENGTH	2.5m LENGTH	2.5m LENGTH
25 LENGTHS/PACK	25 LENGTHS/PACK	25 LENGTHS/PACK
W = 28mm	W = 28mm	W = 28mm
R = 6mm	R = 10mm	R = 15mm
6mm PLASTER THICKNESS	10mm PLASTER THICKNESS	15mm PLASTER THICKNESS
*MADE TO ORDER		



PVCu Plasterstop Beads

Used on door and window openings also at base of wall and ceiling level. Designed to deliver a clean edge, they protect and finish plaster and render edges.

PVCu Plasterstop Beads				
PPS08/2.5	PPS10/2.5	PPS15/2.5	PPS20/2.5	PWW15/2.5
2.5m LENGTH	2.5m LENGTH	2.5m LENGTH	2.5m LENGTH	2.5m LENGTH
50 LENGTHS / PACK	50 LENGTHS/ PACK	50 LENGTHS/ PACK	50 LENGTHS/ PACK	50 LENGTHS/ PACK
W = 45mm	W = 45mm	W = 45mm	W = 45mm	W = 58mm
P = 8mm	P = 10mm	P = 15mm	P = 20mm	P = 15mm
8-10mm PLASTER THICKNESS	10-12mm PLASTER THICKNESS	15-17mm PLASTER THICKNESS	20-22mm PLASTER THICKNESS	15mm PLASTER THICKNESS



Expanded Metal Lath

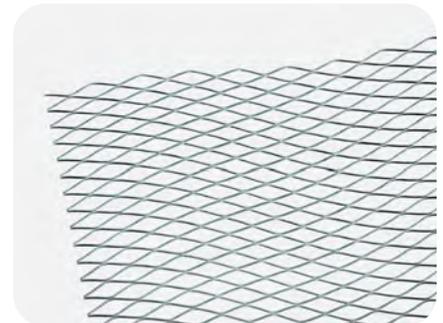
Catnic offer a range of metal lath and mesh products for plastering applications; our expanded metal lath provides a secure key for many plaster and render applications including joint and crack reinforcement work whilst our mesh products provide masonry reinforcement.

Diamond Lath

Extensively used as a background to plaster in order to reinforce against cracks and it is especially useful at joints of dissimilar materials. Generally DL089 and DL111 expanded metal laths are used for walls while DL161 is used for ceiling applications.

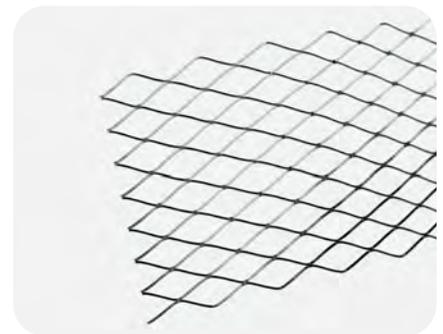
Sheet Lath

REFERENCE	QUANTITY / PACK	WEIGHT (kg/m ²)	MATERIAL	SHEET SIZE (mm)
DL089	10	0.9	GALVANISED STEEL	2500 X 700
DL111	10	1.11	GALVANISED STEEL	2500 X 700
DL161	10	1.61	GALVANISED STEEL	2500 X 700
DL111S	1	1.11	STAINLESS STEEL	2500 X 700



Coil Lath

REFERENCE	WEIGHT (kg/m ²)	WIDTH (mm)	MATERIAL	LENGTH (m)
CL021/100/100	1.11	100	GALVANISED STEEL	100
CL021/150/100	1.11	150	GALVANISED STEEL	100
CL021/200/100	1.11	200	GALVANISED STEEL	100
CL023/100/100:	1.61	100	GALVANISED STEEL	100
CL023/150/100:	1.61	150	GALVANISED STEEL	100
CL023/200/100:	1.61	200	GALVANISED STEEL	100



Quality

Manufactured from galvanised steel to BS EN 10346: 2015 – DX51D+Z275 or Stainless Steel to BS EN 10088-2: 2014-14016. All products shown are manufactured in accordance with BS EN 13658: 2005. Metal Lath - Definitions, Requirements, Test Methods. Part 1 for Internal Plastering. Part 2 for External Plastering.



Installing Diamond & Coil Lath

Catnic Diamond Lath may be fixed by:

- Nailing into cast-in block background with washers over the lathing
- Screwing into plugs in drilled holes with washers over the lathing
- Expanded type screw fixings with washers over the lathing
- Wiring to prefixed channel sections, angles or cleats
- Using screwed fixings
- Battening out using preserved timber battens with the lath fixed as described below.

Fixing to Timber Supports

For horizontal work, Catnic Diamond Lath should be fixed with the length of the sheet running across the timber supports with all the strands sloping in the same direction. Supports should be at centres not exceeding 350mm.

Vertical work should be fixed with all strands sloping downwards and away from the finish face. Using nails or staples, start at the centre of a sheet and nail to each successive support working along the mid-line of the sheet towards its edges. The nails or staples should be driven in at an angle pointing away from the sheet centre thereby providing tension to the sheet as they are applied.

Fixing should then be completed from the centre to the top and bottom sides starting at the central support and nailing at 100mm centres, maximum. Ends of Catnic Diamond lath should be lapped over supports not less than 100mm and wired together at 150mm centres. Sides should be lapped not less than 100mm and tied with tying wire at approximately 150mm centres.

Fixing to Steel Channel

The lath should be fixed to steel channel using 1.22mm soft galvanized steel tying wires at not more than 100mm centres. The tie should be made by forming a hairpin at the end of a length of wire, the length being at least twice the depth of the runner. The hairpin should be pushed bend first up through the lath, close to one side of the runner and pulled back with one leg of the wire on either side of the runner. Both strands of wire should be pulled taut and given a few twists with top cutters before cutting any surplus wire. The twist may then be pushed flat against the lath. Required tension in the sheet may be achieved by passing the leg of the hairpin to one side or the other of the lath junctions in accordance with the direction of the desired tension. Continue installation as for timber supports.

Notes

Nails (BS 1202: Part 1), staples and wire for fixing lath should be manufactured from galvanized or stainless steel. Nails for fixing to timber battens should be 38mm long with a 7mm head.

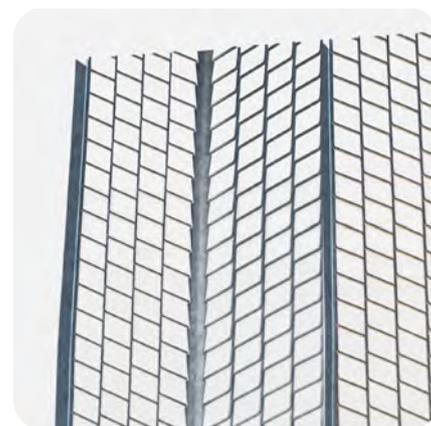
Alternatively, 32 x 2mm staples may also be used if preferred. If fitting with nails, screws or proprietary screwed fixings, spacers should be inserted behind the lathing to allow render flow through.

Rib Lath

Rib Lath

Extensively used as a plaster background for ceilings, walls and partitions. Generally RIB118 and RIB148 are suitable for wall applications. For ceiling work RIB184 or RIB222 should be used.

Sheet Lath				
REFERENCE	WEIGHT (kg/m ²)	MATERIAL	SIZE (mm)	RIB HEIGHT (mm)
RIB118	1.36	GALVANISED STEEL	2500 X 600	10
RIB148	1.53	GALVANISED STEEL	2500 X 600	10
RIB184	1.84	GALVANISED STEEL	2500 X 600	10
RIB222	2.22	GALVANISED STEEL	2500 X 600	10
RIB148S	1.48	STAINLESS STEEL	2500 X 600	10
RIB184S	1.84	GALVANISED STEEL	2500 X 600	10



Installing Rib Lath

Catnic Rib Lath may be fixed to a solid background using proprietary fixings suitable for holding the sheets firmly in place. The edge ribs should be nested with the apex of the rib in contact with the background and fixed to the background at 150mm centres. Sheet ends should overlap by at least 100mm.

A row of fixings should be applied at 600mm horizontal spacing, starting 350mm in from the sheet ends and 200mm in from each of the top and bottom sides (for horizontally positioned sheets).

Fixing to Timber Supports Rib lath should be fixed with the ribs running at right angles to the supports with the apex of the rib in contact with the support ensuring the spans do not exceed 600mm. The lath should be fixed to timber grounds using a nail or staple driven through every rib where it crosses each support.

Fixing to Steel Channel

When fixing to steel channel, use 1.63mm or two strands of 1.22mm soft galvanized steel wire tied around the rib where it crosses each support.

Lap ends of lathing over supports not less than 100mm and wire together with 1.63mm tying wire. Stainless steel tie wire should be used with stainless steel lath. Where laps between supports cannot be avoided, lap ends not less than 100mm and secure each pair of ribs together with two rows of 1.63mm tie wire at approximately 100mm centres.

Sides of adjoining Rib Lath sheets should be pressed together with the edge rib of each sheet nested and tied with 1.22mm tying wire or punch fixed at centres no greater than 150mm.

Quality

Galvanised Rib Lath shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2005 using galvanised steel to BS EN 10346:2015-DX51D+Z275.

Stainless Rib Lath shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2005 using stainless steel to BS EN 10088-2:2014-1.4016.

Refurbishment of Masonry

Stainless steel rib lath is ideal for refurbishing damaged or aged masonry walls, when a key for rendering is not certain due to disintegration or softening of the wall face. Lath should be fixed with apexes of ribs against the wall, edge ribs of the sheets nesting into each other should be wire-tied every 15cm and ends of sheets should be lapped not less than 2.5cm and nesting ribs securely tied together.

Stainless steel fixings should be used at sufficient intervals to hold the lath firmly in position.

Coil Mesh for Non-structural Usage

Expanded metal type bed joint reinforcement is supplied as an anti-crack reinforcement in the design and construction of brick and block masonry.

It is generally provided at areas of high stress concentration to dissipate these stresses to areas of low stress. A typical example would be at a point where the section of wall changes, such as at a door or window opening.

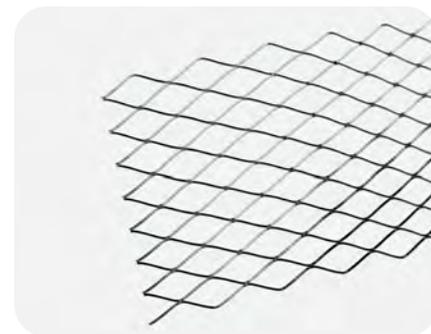
The cracking of masonry due to changes in temperature, changes in moisture content and settlement of foundations can all be controlled by the use of block reinforcement.

Coil Mesh - Galvanised

REFERENCE	WALL WIDTH (mm)	COIL WIDTH (mm)	COIL LENGTH (m)
CM 64/20	114	64	20
CM 114/20	164	114	20
CM 178/20	228	178	20
CM 229/20	279	229	20
CM 305/20	355	305	20

Coil Mesh - Stainless Steel

REFERENCE	WALL WIDTH (mm)	COIL WIDTH (mm)	COIL LENGTH (m)
CM 64/20/SS	114	64	20
CM 114/20/SS	164	114	20
CM 178/20/SS	228	178	20
CM 229/20/SS	279	229	20
CM 305/20/SS	355	305	20



Installing Coil Mesh

The coil mesh is laid in strips between brick or block courses leaving approximately 25mm clearance from the faces of the work. Where coil mesh joints are required, ensure they overlap by at least 75mm.

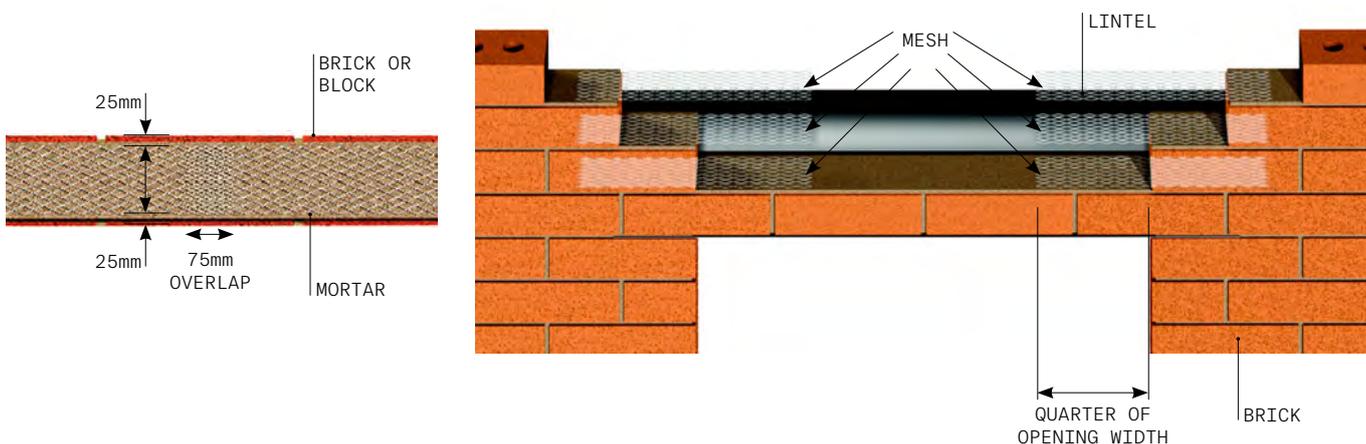
The reinforcement is then simply embedded in the mortar for the next course.

In most instances, application every third course, for the full length of the wall, will be sufficient.

To reinforce brickwork at an opening, e.g. window or door, mesh should be installed to overlap part of the opening, and part of the solid wall.

Thinking of the width of the opening, lay the mesh approximately a quarter of the way across the opening. The mesh should lie the same distance again, across the solid wall.

Above windows or doors, install Catnic mesh for 2-3 courses, starting from the course above the lintel as shown below.



Wall Accessories

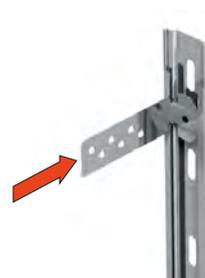
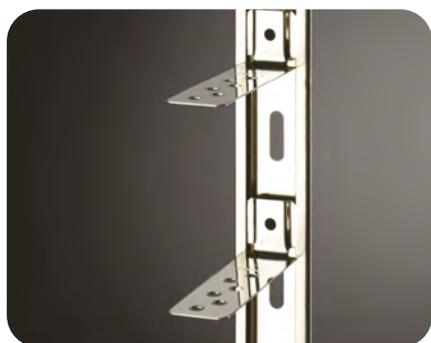
Catnic provides a comprehensive range of wall accessories, including wall connectors and wall ties. Wall connectors are a simple yet effective system for tying new masonry walls to existing walls, all Catnic wall ties are manufactured from high quality stainless steel wire and strip materials to ensure that structural design properties are maintained throughout the life of the structure.

Wall Starter Kits - Stronghold

- Adjustable ties for flexibility in coursing.
- Manufactured from stainless steel.
- Universal application up to 250mm wall thickness.
- All necessary fixings included.



Stronghold						
PRODUCT CODE	DESCRIPTION	PRODUCT STYLE	QTY/BOX	WALL THICKNESS (mm)	MATERIAL	USE
SWC	STRONGHOLD	ADJUSTABLE TIES	20	60 - 250	STAINLESS STEEL	INTERNAL & EXTERNAL



INSERT



TWIST



SLIDE

The fixing mechanism

Ties on the Stronghold wall starter kit are inserted into the channel and twisted 90°.

To allow flexibility in brick/block coursing heights Stronghold ties slide up and down the channel to lie horizontally in the mortar joint of the new wall.

Installing Stronghold Wall Starter Kit

Expanded metal type bed joint reinforcement is supplied as an anti-crack reinforcement in the design and construction of brick and block masonry.

1. Prepare existing wall by removing any rendered or pebble dashed finishing to ensure that the wall starter is fixed directly to the existing masonry.
2. Offer the lower starter to the existing wall, at the centre of the new wall, ensuring the fixing positions avoid mortar joints. Plumb the starter and mark the positions of the fixing holes. If necessary, use the alternative fixing positions. (i.e. 450 and 600).
3. Drill and plug the existing masonry using a 10mm masonry drill. (Plugs, coach screws and washers are provided). **See diagram i.**
4. Lightly clamp the lower starter to the masonry at the two lower fixing positions only using the coach screws and washers provided. **See diagram ii.**
5. Slot the second starter into the lower starter overlap. (If required, reduce the starter length by cutting one end only). Repeat steps 3, 4 and 5 for the upper section. **See diagrams iii, iv and v.**
6. Align both starters and tighten all coach screws. Do not over-tighten.
7. Lay brickwork or blockwork for the new wall in the conventional way, with a full mortar joint between the existing and the new walls. Install wall starter ties into the wall starter by twisting and sliding into position at a maximum of 300mm centres.
8. The ties should be bedded into the mortar and another bed applied over the top.
9. The ties should be completely surrounded with mortar. **See diagram v.**
10. For external cavity walls proceed as before, but ensure bottom edge of the wall starter is above the damp-proof course. The vertical joint between existing wall and the outer leaf of the new wall should be weather sealed with a pre-compressed sealing strip or polymer based sealant.

Tools required

- Spirit level
- Drill (with 10mm masonry bit)
- 10mm socket spanner



Diagram i.



Diagram ii.



Diagram iii.



Diagram iv.



Diagram v.

Notes

In line with Building Regulations, reference should be made to your local authority since additional weather proofing may be required, e.g. a vertical damp-proof course cut into the existing wall.

Stainless Steel Strip

Wall Ties

All Catnic wall ties are manufactured from high quality stainless steel wire and strip materials to ensure that structural design and properties are maintained throughout the life cycle of the structure.

BB-2

LENGTH	WIDTH	CAVITY WIDTH	PACKING
191mm	19mm	50mm	CARTONS OF 250
DD140 PART 2 1987 TYPE 2 REQUIREMENT			CATNIC BB-2
TENSILE LOAD (N)	AT SERVICEABILITY	500	1321
TENSILE LOAD (N)	AT FAILURE	1800	3183
COMPREHENSIVE LOAD (N)	AT SERVICEABILITY	400	552
COMPREHENSIVE LOAD (N)	AT FAILURE	1300	1300



BB-3

LENGTH	WIDTH	CAVITY WIDTH	PACKING
220mm	19mm	75mm	CARTONS OF 250
DD140 PART 2 1987 TYPE 2 REQUIREMENT			CATNIC BB-2
TENSILE LOAD (N)	AT SERVICEABILITY	500	1529
TENSILE LOAD (N)	AT FAILURE	1800	4051
COMPREHENSIVE LOAD (N)	AT SERVICEABILITY	400	1540
COMPREHENSIVE LOAD (N)	AT FAILURE	1300	2374



Fixings

For fixing masonry to masonry in cavity walls of domestic houses and small commercial buildings of up to three storeys but not exceeding 15m in height. Tie density 2.4 ties/m². Based on a design windspeed up to 56m/s.

BT 2-4

LENGTH	WIDTH	CAVITY WIDTH	PACKING
120mm	19mm	50mm	CARTONS OF 250

Fixings

For fixing masonry to timber framing in single and two storey dwellings up to a maximum height of 8m. Also suitable for block to concrete applications. Tie density and windspeed refer to BBA certificate.



Stainless Steel Strip Ties

CAVITY	DESIGN	TIE SIZE (mm)	SPECIFY	DD140: PART 2	WIND SPEED
50mm	3 STOREYS UP TO 15m	0.6 X 19 X 191	BB-2	TYPE 2	UP TO 56m/s
50mm	5 STOREYS UP TO 15m	0.8 X 19 X 220	BB-3	TYPE 2	UP TO 56m/s
50mm	4 STOREYS UP TO 12m	0.6 X 19 X 120	BT 2-4		UP TO 50m/s



Quality

Catnic Wall Ties are manufactured from stainless steel in accordance with BS EN 10088-2: 2014 (strip), BS EN 10088-3: 2023-1.4310 (wire).

Wall Accessories

Stainless Steel Wire Wall Ties

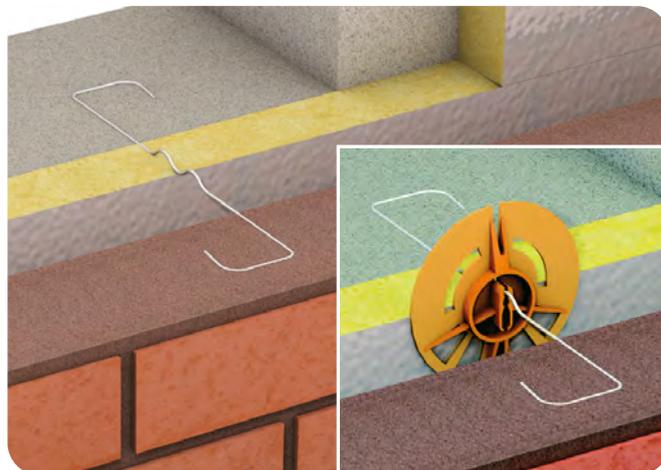
Catnic's WT4 wall tie secures two leaves of a cavity wall to each other allowing them to act as a single structure.

Quality Assurance

All Catnic wall ties are manufactured using high quality stainless steel wire in accordance with BS EN 10088-3: 2023-1.4310 and are tested in accordance with BS EN 846-6: 2012

Cavity wall ties provide stability to masonry walls and care should be taken during installation to avoid the ingress of water to the inner skin and potential failure.

Wall ties should be installed in accordance to guidance given in BSI PD 6697: 2019



Product Data

PRODUCT CODE	LENGTH (mm)	TIE SIZE (mm)	CAVITY WIDTH (mm)	QUANTITY/PACK
WT4/200	200	2.5	50-75	250
WT4/225	225	2.5	75-100	250
WT2/200	200	3.3	50-75	250
WT2/225	225	3.3	75-100	250
LOAD DIRECTION	MAXIMUM DECLARED VALUE AT ULTIMATE LOAD (N)			
225mm TENSION READING				
TENSION				1256
COMPRESSION				557



Quality Manufacture & Responsible Sourcing

Catnic is committed to innovation and constant improvement to meet the changes in building regulations.

Leaders in Technical Innovation

Our rigid adherence to quality control & compliance is your guarantee of technical superiority.

Quality

Catnic are committed to quality control and is a BSI registered company with quality management systems in accordance with BS EN ISO 9001: 2015, which provides a set of processes that ensure:

- Clarification and documentation of policies and objectives
- Reduced waste relating to customers' requirements to production with a view to achieving customer satisfaction
- Understanding how statutory and regulatory requirements impact on Catnic and our customers
- Clear responsibilities and authorities - increasing motivation and commitment
- Consistency and traceability of products and services
- High level of internal and external communications

Environment and Sustainability

Catnic are committed to protecting the environment by minimising the impact of our operations and our products through the adoption of sustainable practices and through continuous improvement in environmental performance and control.

We're delighted to have been awarded ISO 50001 certification in 2024, recognising our commitment to continual improvement energy management, across our business.

Responsible Sourcing

We supply the widest range of construction products certified to BES 6001, the responsible sourcing standard that provides the reassurance specifiers, contractors and building owners rely on when meeting the government's requirements for sustainable development. Catnic's steel plasterbeads and expanded metal laths are the first of its type to have been certified as responsibly sourced from the iron ore supply to installation.

Using our wide range of BES6001 certified products provides a route to obtaining credits under the Responsible Sourcing of Materials sections of BREEAM, the Code for Sustainable Homes and CEEQUAL.

Certification of all our steel construction products to BES 6001 provides independent verification of our corporate responsibility, including the way we drive sustainability considerations up the supply chain to the point of raw material extraction. It delivers a method for us to benchmark and show that we are continuously improving our sustainability credentials.



Material Specifications and Clauses

Angle bead or corner bead

Galvanised angle bead shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2005 using galvanised steel to BS EN 10346:2015 with 45mm (53mm) wing size as manufactured by Catnic under code reference SS3.0 (STD3.0: WW3.0).

Stainless Angle bead shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2005 using stainless steel to BS EN 10088-2:2014 with 53mm wing size as manufactured by Catnic under code reference STD3.0SS.

Plaster stop or casing bead

Galvanised plaster stops shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2015 using galvanised steel to BS EN 10346:2015 and to suit plaster thickness of 10mm (13mm: 16mm: 19mm) as manufactured by Catnic under code reference PS10/3.0 (PS13/3.0: PS16/3.0: PS19/3.0).

Stainless Plasterstops shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2014 using stainless steel to BS EN 10088-2:2014 and to suit plaster thickness of 10mm (13mm: 16mm: 19mm) as manufactured by Catnic under code reference PS10/3.0/SS (PS13/3.0/SS: PS16/3.0/SS: PS19/3.0/SS).

Architrave beads

Galvanised Architrave beads shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2005 using galvanised steel to BS EN 10346:2015-DX51D+Z275 and to suit plaster thickness of 10mm (13mm) without (with) return flange as manufactured by Catnic under code reference ARC10/WF/3.0 (ARC13/WF/3.0: ARC20/WF/3.0) or ARC10WO/3.0 (ARC13/WO/3.0).

Stainless Architrave beads shall be manufactured in accordance with BS EN 13658: Part 1 & 2: 2005 using stainless steel to BS EN 10088-2: 2014 and to suit plaster thickness of 10mm (13mm) without (with) return flange as manufactured by Catnic under code reference ARC10/WF/3.0/SS (ARC10/WF/3.0/SS, ARC13/WO/3.0/SS, ARC13/WF/3.0/SS, ARC20/WF/3.0/SS).

Movement bead

Galvanised Movement beads shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2005 using galvanised steel to BS EN 10346:2015 and to suit plaster thickness of 12mm (15mm: 18mm: 21mm) as manufactured by Catnic under code reference MB10/3.0 (MB13/3.0: MB16/3.0: MB19/3.0).

Stainless Movement beads shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2014 using stainless steel to BS EN 10088-2:2014 and to suit plaster thickness of 12mm (15mm: 18mm: 21mm) as manufactured by Catnic under code reference MB10/3.0/SS (MB13/3.0/SS: MB16/3.0/SS: MB19/3.0/SS).

Renderstop

Galvanised Renderstops shall be manufactured in accordance with BS EN 103658: 2008 Parts 1 & 2 using galvanised steel to BS EN 10346: 2015-DX51D+Z275 as manufactured by Catnic under code reference RS3.0.

Stainless Renderstops shall be manufactured in accordance with BS EN 13658: Part 1 & 2: 2005 using stainless steel to BS EN 10088-2: 2014 as manufactured by Catnic under code reference RS/3.0/SS.

Expanded metal lath

Galvanised Expanded metal lath shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2005 using galvanised steel to BS EN 10346:2015 and weighing 0.89kg per sq. metre (1.11kg per sq. metre: 1.61kg per sq. metre) as manufactured by Catnic under code reference DL089 (DL111: DL161).

Stainless Expanded metal lath shall be manufactured in accordance with BS EN 13658: Part 1 & 2:2005 using stainless steel to BS EN 10088-2:2014 and weighing 1.11kg per sq. metre as manufactured by Catnic under code reference DL111/SS.

Rib Lath

Galvanised Rib Lath shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2005 using galvanised steel to BS EN 10346:2015 with 10mm ribs at 100mm centres and weighing 1.36kg per sq. metre (1.53 kg per sq metre - 1.84kg per sq. metre: 2.22 per sq. metre) as manufactured by Catnic under code reference RIB118 (RIB148: RIB184: RIB222).

Stainless Rib Lath shall be manufactured in accordance with BS EN 13658:Part 1 & 2:2014 using stainless steel to BS EN 10088-2:2014 with 10mm ribs at 100mm centres and weighing 1.48kg per sq. metre (1.84kg per sq. metre) as manufactured by Catnic under code reference RIB148/SS (RIB184/SS).



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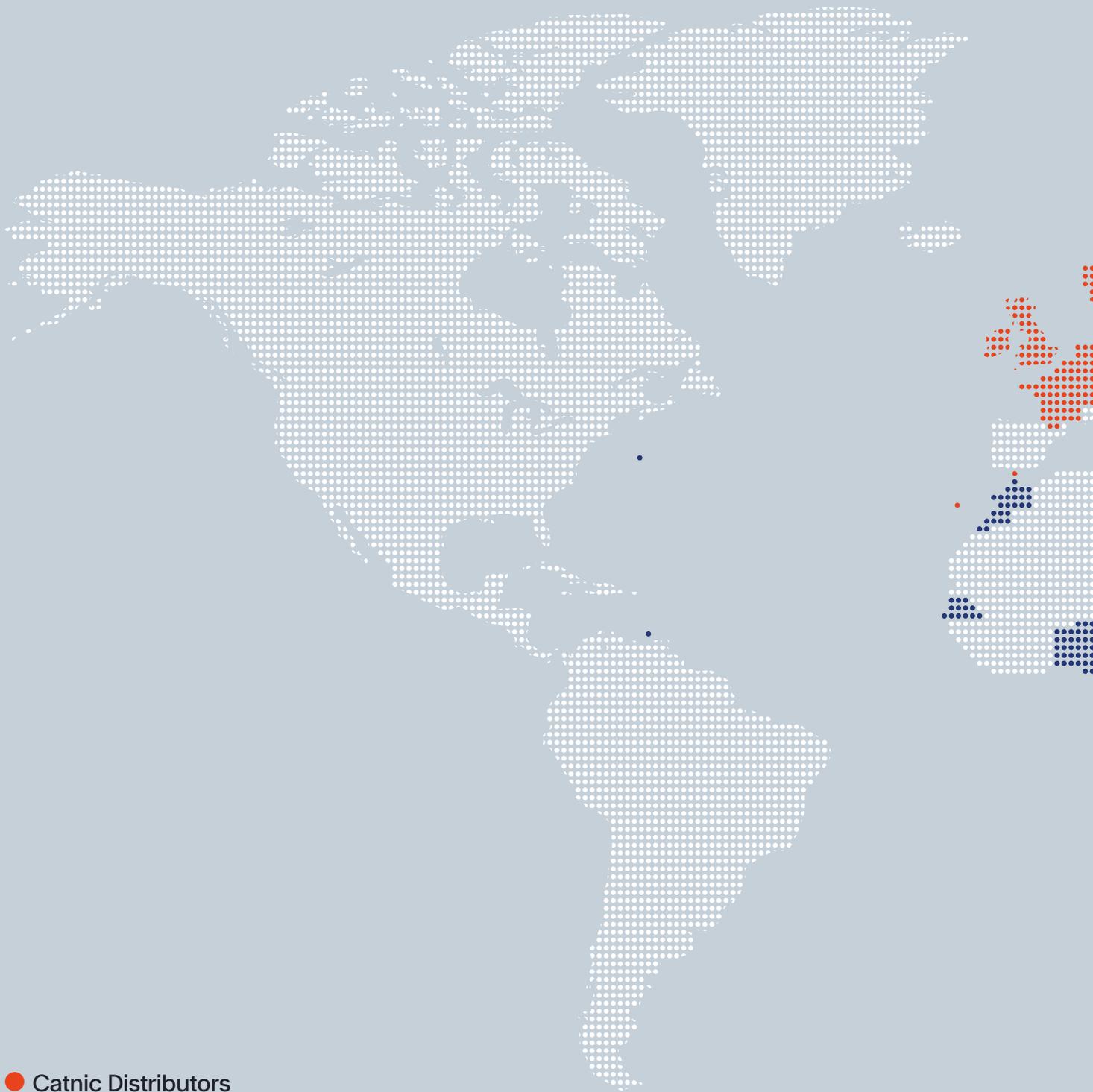
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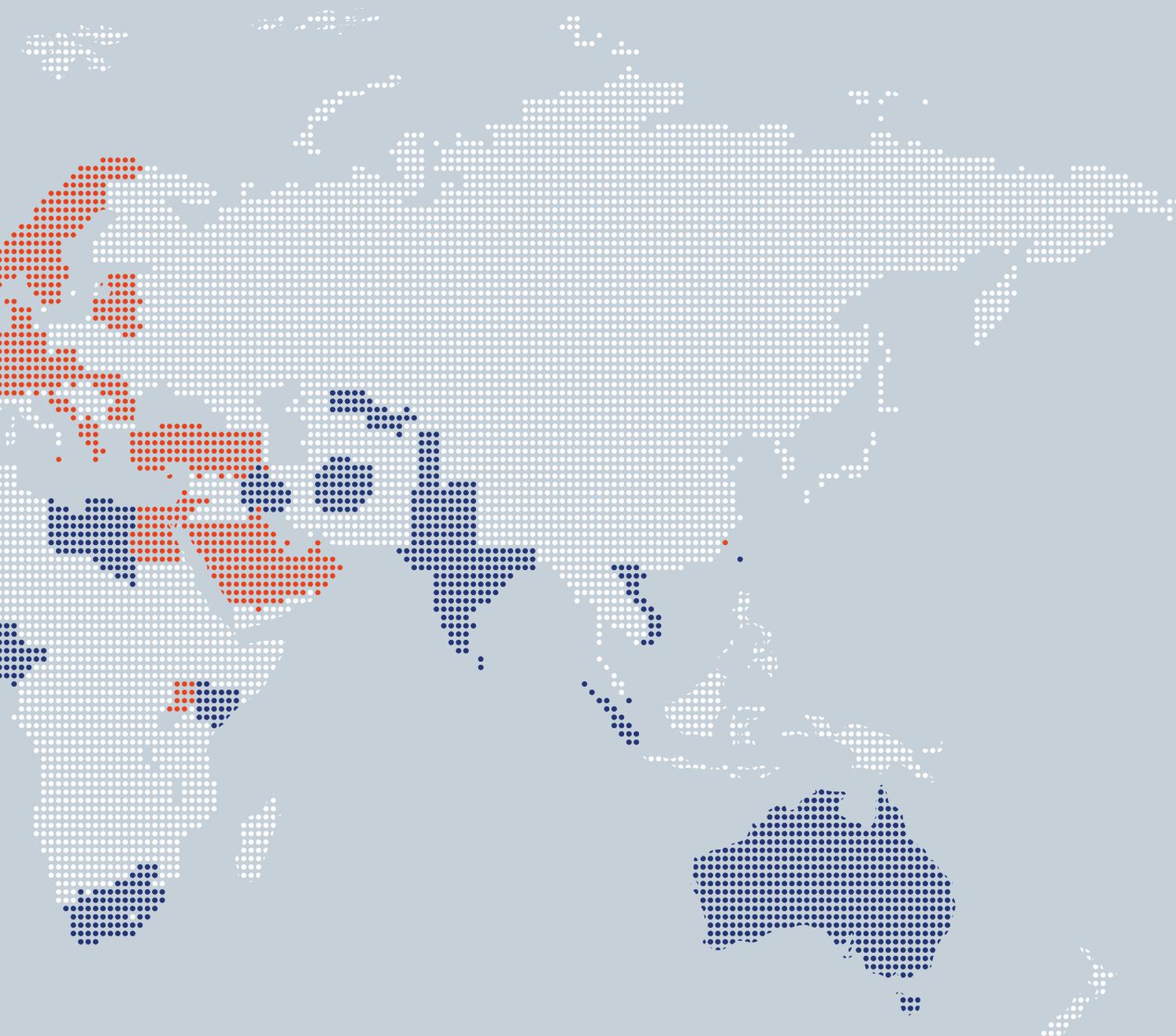


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