

Product overview

IG Masonry Support manufactures three types of Windposts to meet the clients Structural Engineer specification. Windposts are designed to span vertically between floors to provide lateral support for large panels of brickwork or large panels with openings. All components are manufactured from 304 Austenitic Stainless Steel (1.4301).

All IG Windposts are supplied with specifically designed base and top connections to suit fixing to steel, concrete, timber intermediate floors or timber wall plates. They are also supplied with a suitable number of Wall Ties which will vary in relation to the post type used and the cavity width. Suitable Windpost types are selected from a design table depending on length, section and loading requirements.

Enhanced features

- Stainless steel - A1 fire-rated material
- Supplied with fixings and Wall Ties
- Windposts designed in accordance with BS EN 1993
- Wall Ties designed in accordance with BS EN 845-1
- Standard or bespoke designs
- EPD: BRE Global Verified

LP Windposts

LP Windposts are designed to be built into the inner skin of the cavity wall and normally span between floor structures. Comprising an 'L' shaped section, they are designed to suit a range of loading conditions. They are available in shorter lengths for parapets or below windows.

U Windposts

U Windposts are designed to be installed within the cavity and normally span between floor structures. The installation of U Windposts leaves the inner leaf of the cavity totally undisturbed. They are available in shorter lengths for parapets or below windows.

DU Windposts

DU Windposts are a heavier duty variant of the U Windpost comprising a 'back-to-back' channel section engineered for heavier loading conditions. They are designed to be installed within the cavity and normally span between floor structures. The installation of this product leaves the inner leaf of the cavity totally undisturbed.

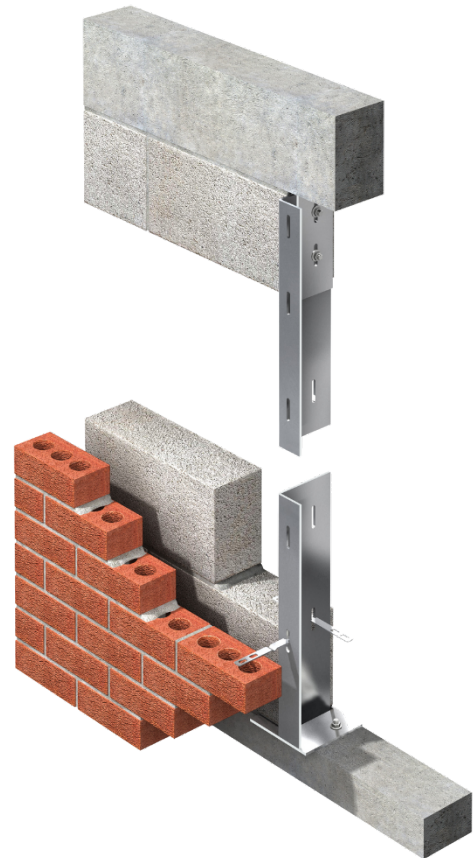
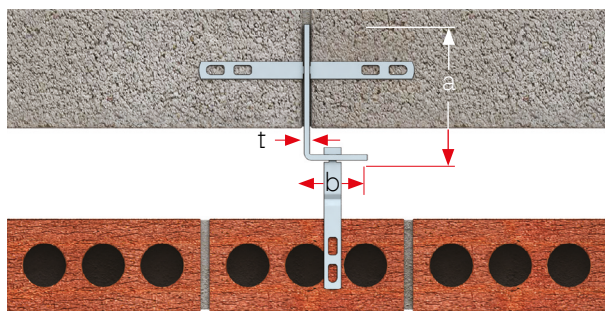


LP Windposts

LP Windposts are designed to be built into the inner skin of the cavity wall and normally span between floor structures. Comprising an 'L' shaped section, LP Windposts are designed to suit a range of loading conditions detailed in the tables below.

Each Windpost is supplied with specifically designed base and top connections to suit fixing to steel, concrete, timber intermediate floors or timber wall plates.

LP Windposts are also available in shorter lengths for parapets or below windows (see Parapet & Spandrel Windpost section).



Dimensions and performance of LP Windposts

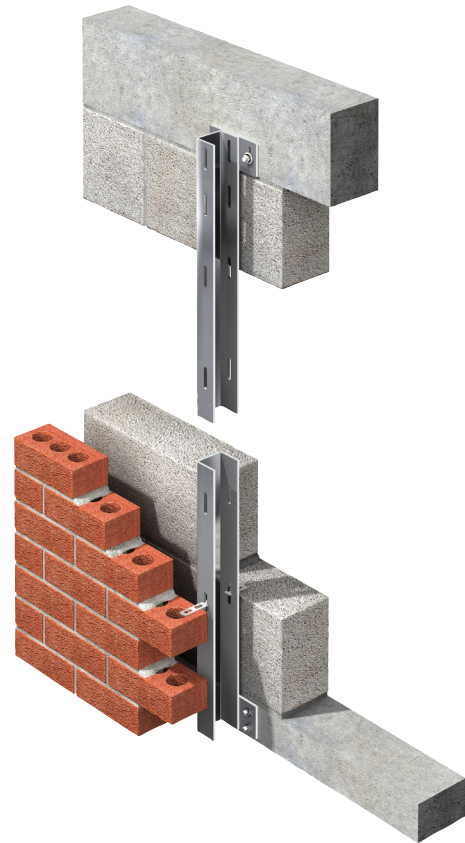
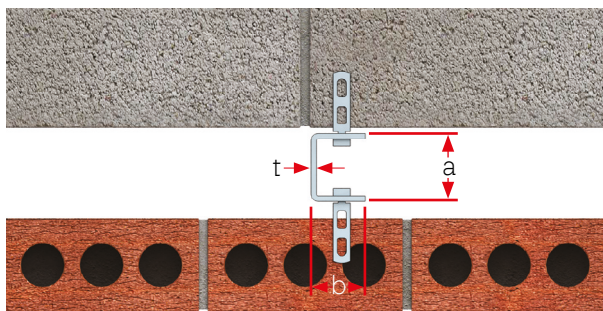
Code	Size (mm) a x b x t	Maximum unfactored wind load for height of Windpost UDL (kN)							
		2500mm	3000mm	3500mm	4000mm	4500mm	5000mm	5500mm	6000mm
LP1	125x70x4	9.0	6.2	4.6	3.5	-	-	-	-
LP2	125x70x5	11.0	7.7	5.7	4.3	3.4	-	-	-
LP3	125x70x6	13.1	9.1	6.7	5.1	4.1	3.3	-	-
LP4	150x70x4	12.5	10.2	7.5	5.7	4.5	3.7	3.0	-
LP5	150x70x5	15.5	12.6	9.3	7.1	5.6	4.5	3.8	3.2
LP6	150x70x6	18.5	15.0	11.0	8.4	6.7	5.4	4.5	3.7
LP7	170x70x4	15.8	13.1	10.5	8.1	6.4	5.2	4.3	3.6
LP8	170x70x5	19.0	16.3	13.0	10.0	7.9	6.4	5.3	4.4
LP9	170x70x6	19.0	19.0	15.5	11.8	9.4	7.6	6.3	5.3
LP10	200x70x4	19.0	17.8	16.3	12.5	9.9	8.0	6.6	5.6
LP11	200x70x5	19.0	19.0	18.9	15.5	12.2	9.9	8.2	6.9
LP12	200x70x6	19.0	19.0	19.0	18.4	14.5	11.8	9.7	8.2

U Windposts

U Windposts are designed for standard loading conditions and to be installed within the cavity, normally spanning between floor structures. The installation of U Windposts leaves the inner leaf of the cavity totally undisturbed.

Each Windpost is supplied with specifically designed base and top connections to suit fixing to steel, concrete, timber intermediate floors or timber wall plates.

U Windposts are also available in shorter lengths for parapets or below windows (see Parapet & Spandrel Windpost section).



Dimensions and performance of U Windposts

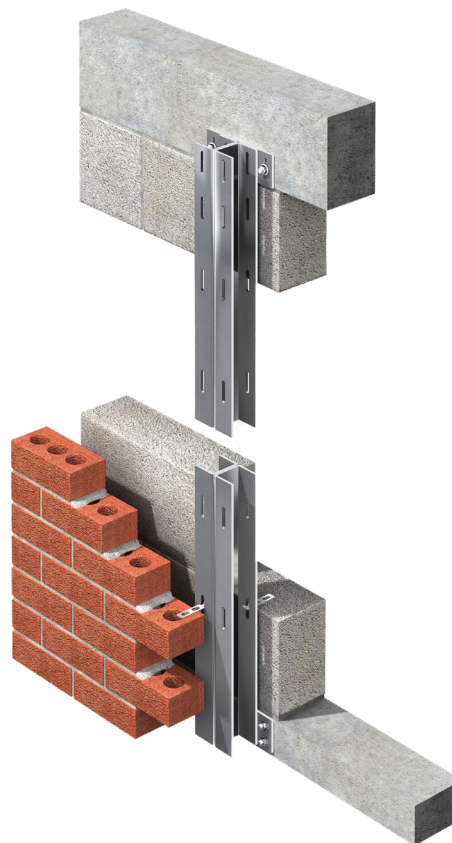
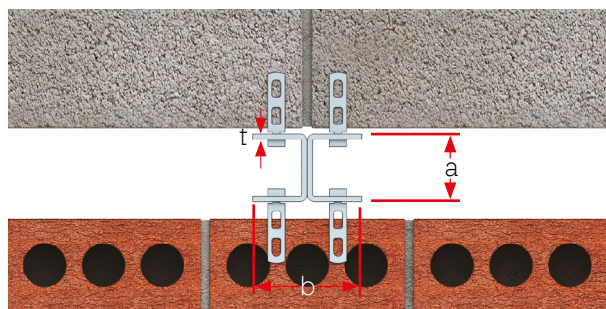
Code	Size (mm) a x b x t	Maximum unfactored wind load for height of Windpost UDL (kN)							
		2500mm	3000mm	3500mm	4000mm	4500mm	5000mm	5500mm	6000mm
U1	60 x 60 x 4	3.0	2.1	-	-	-	-	-	-
U2	60 x 60 x 5	3.5	2.5	1.8	-	-	-	-	-
U3	60 x 60 x 6	5.5	3.8	2.8	2.2	-	-	-	-
U4	75 x 60 x 4	4.9	3.4	2.5	1.9	-	-	-	-
U5	75 x 60 x 5	5.9	4.1	3.0	2.3	1.8	-	-	-
U6	75 x 60 x 6	6.9	4.8	3.5	2.7	2.1	-	-	-
U7	115 x 60 x 4	13.2	9.2	6.7	5.2	4.1	-	-	-
U8	115 x 60 x 5	16.1	11.2	8.2	6.3	5.0	4.0	3.3	-
U9	115 x 60 x 6	18.8	13.0	9.6	7.3	5.8	4.7	3.9	3.3

DU Windposts

DU Windposts are a heavier duty variant of the U Windpost, comprising a 'back-to-back' channel section engineered for heavier loading conditions.

DU Windposts are designed to be installed within the cavity and normally span between floor structures. The installation of this product leaves the inner leaf of the cavity totally undisturbed.

Each Windpost is supplied with specifically designed base and top connections to suit fixing to steel, concrete, timber intermediate floors or timber wall plates.



Dimensions and performance of U Windposts

Code	Size (mm) a x b x t	Maximum unfactored wind load for height of Windpost UDL (kN)							
		2500mm	3000mm	3500mm	4000mm	4500mm	5000mm	5500mm	6000mm
DU3	60 x 60 x 6 (2)	11.0	7.7	5.6	4.3	3.4	2.8	-	-
DU6	70 x 60 x 6 (2)	13.7	9.5	7.0	5.4	4.2	3.4	2.8	-
DU9	115 x 60 x 6 (2)	27.0	26.1	19.2	14.7	11.6	9.4	7.8	6.5

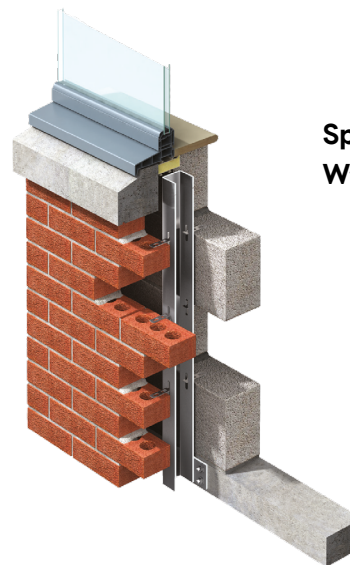
Parapet & Spandrel Windposts

IG's Windposts are available in shorter lengths to provide the same level of stability to parapets or below windows, commonly termed Parapet or Spandrel Windposts respectively.

These posts are designed as cantilevers and are rarely more than 1.6 metres in height. The base connection is engineered to resist bending moment.



**Parapet
Windpost**



**Spandrel
Windpost**

Dimensions and performance of U Spandrel & Parapet Windposts

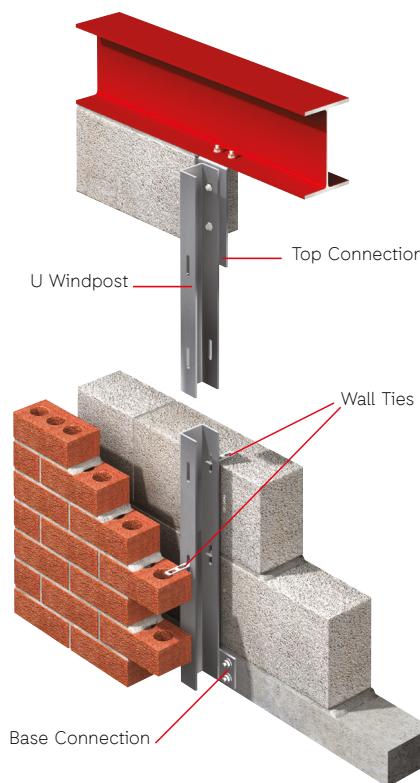
Code	Size (mm) a x b x t	Maximum unfactored wind load for height of Windpost UDL (kN)						
		800mm	1000mm	1200mm	1400mm	1600mm	1800mm	2000mm
U1	60 x 60 x 4	6.0	3.9	2.7	2.0	1.5	-	-
U2	60 x 60 x 5	7.2	4.6	3.2	2.4	1.8	-	-
U3	60 x 60 x 6	8.8	7.0	5.0	3.7	2.8	-	-
U4	75 x 60 x 4	8.5	6.4	4.5	3.3	2.5	-	-
U5	75 x 60 x 5	9.3	7.5	5.4	3.9	3.0	-	-
U6	75 x 60 x 6	9.3	7.5	6.2	4.6	3.5	-	-
U7	115 x 60 x 4	9.3	7.5	6.2	5.3	4.6	-	-
U8	115 x 60 x 5	9.3	7.5	6.2	5.3	4.6	-	-
U9	115 x 60 x 6	9.3	7.5	6.2	5.3	4.6	-	-

Dimensions and performance of LP Spandrel & Parapet Windposts								
Code	Size (mm) a x b x t	Maximum unfactored wind load for height of Windpost UDL (kN)						
		800mm	1000mm	1200mm	1400mm	1600mm	1800mm	2000mm
LP1	115x70x4	7.0	5.6	4.6	4.0	3.5	3.1	2.8
LP2	125x70x5	8.0	6.9	5.8	4.9	4.3	3.8	3.5
LP3	125x70x6	8.0	8.0	6.8	5.9	5.1	4.6	4.1
LP4	150x70x4	8.0	7.8	6.5	5.6	4.9	4.3	3.9
LP5	150x70x5	8.0	8.0	8.0	8.0	6.1	5.4	4.9
LP6	150x70x6	8.0	8.0	8.0	8.0	7.2	6.4	5.8
LP7	170x70x4	8.0	8.0	8.0	7.0	6.2	5.5	4.9
LP8	170x70x5	8.0	8.0	8.0	8.0	7.7	6.8	6.1
LP9	170x70x6	8.0	8.0	8.0	8.0	8.0	8.0	7.3
LP10	200x70x4	8.0	8.0	8.0	8.0	8.0	7.4	6.7
LP11	200x70x5	8.0	8.0	8.0	8.0	8.0	8.0	8.0
LP12	200x70x6	8.0	8.0	8.0	8.0	8.0	8.0	8.0

Windpost connections and Wall Ties

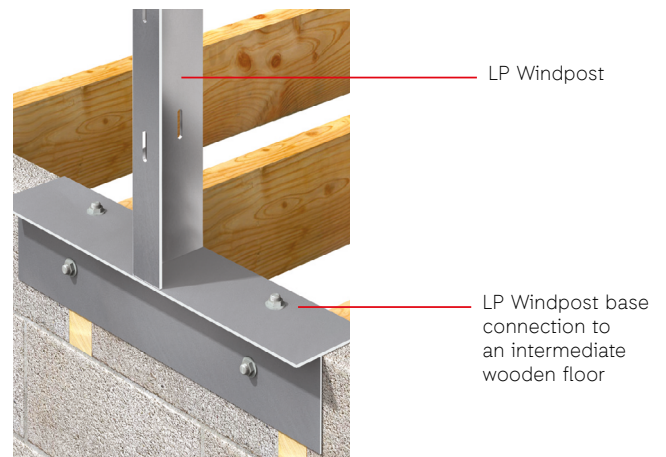
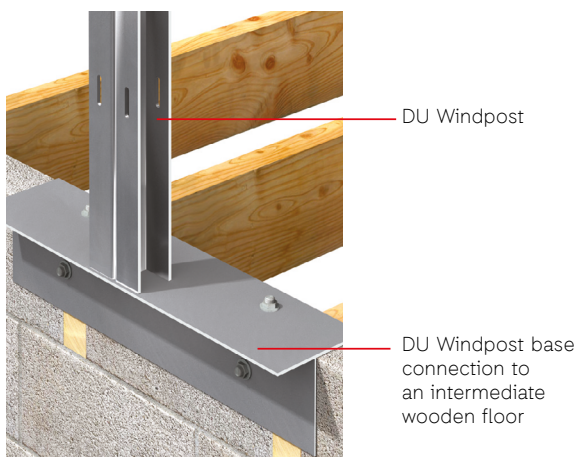
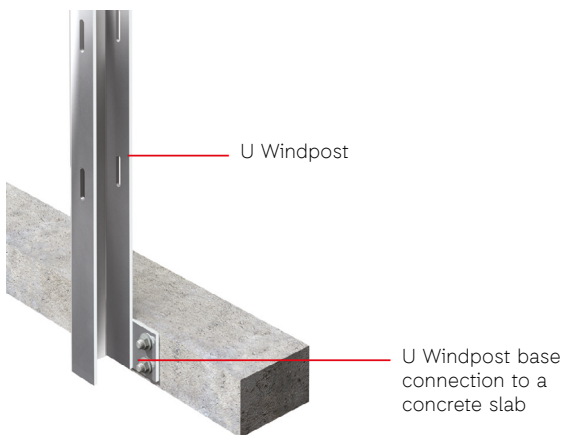
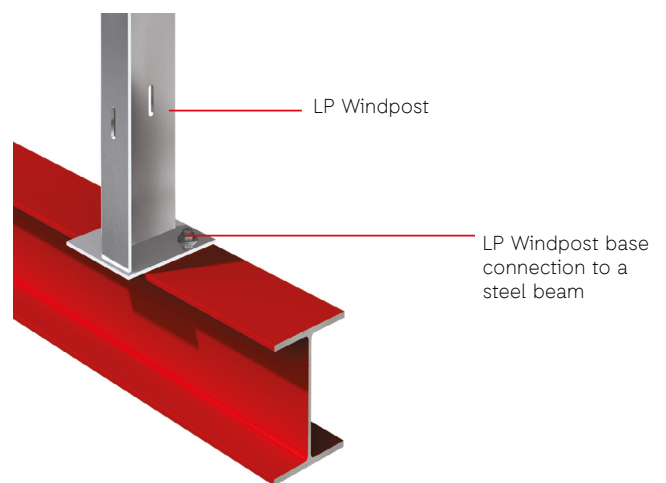
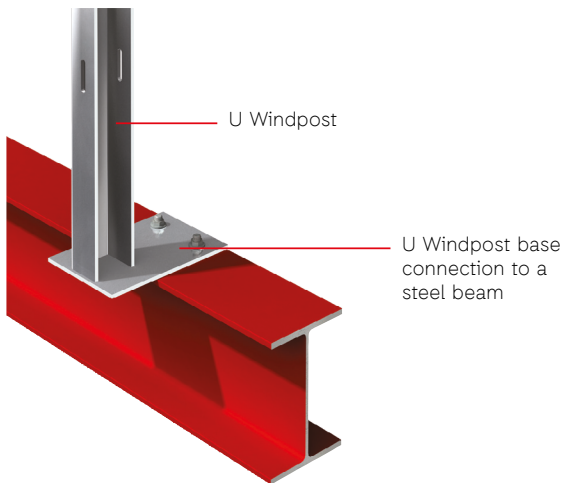
Each IG Windpost is supplied with specifically designed base and top connections to suit fixing to steel, concrete, timber intermediate floors or timber wall plates. They are also supplied with a suitable number of Wall Ties which will vary in relation to the post type used and the cavity width.

A wide range of Wall Ties are available. IG Masonry Support will specify Wall Ties based on the projection of the Windpost in to the cavity.



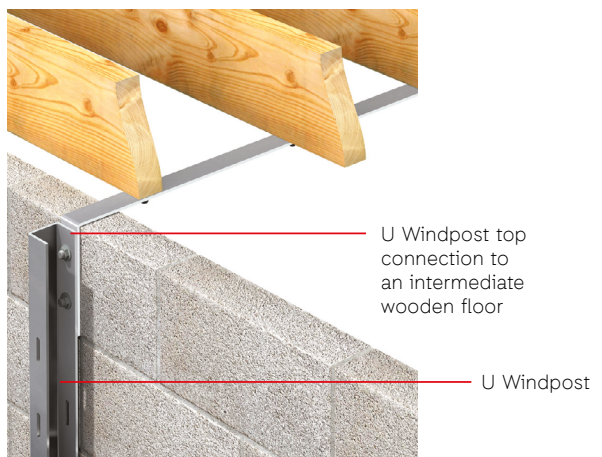
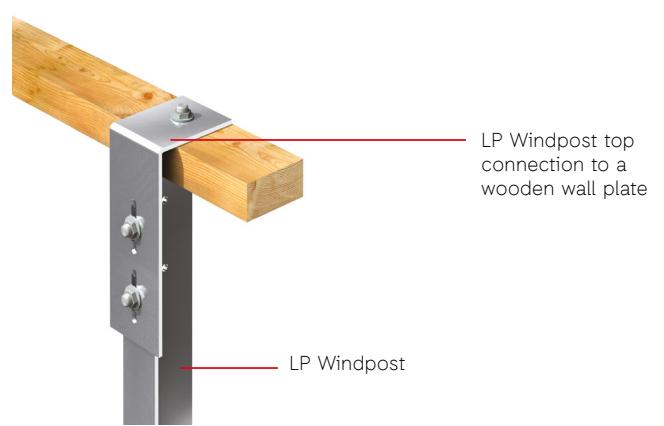
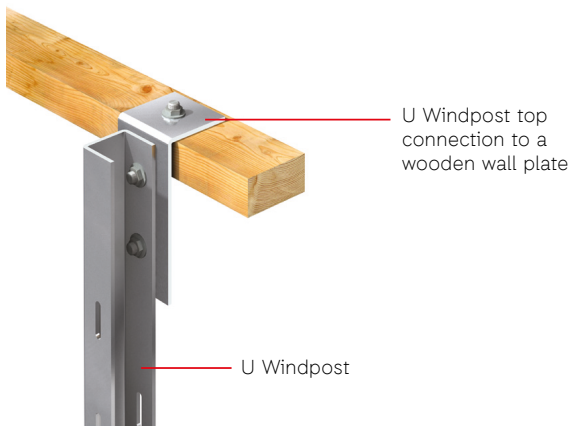
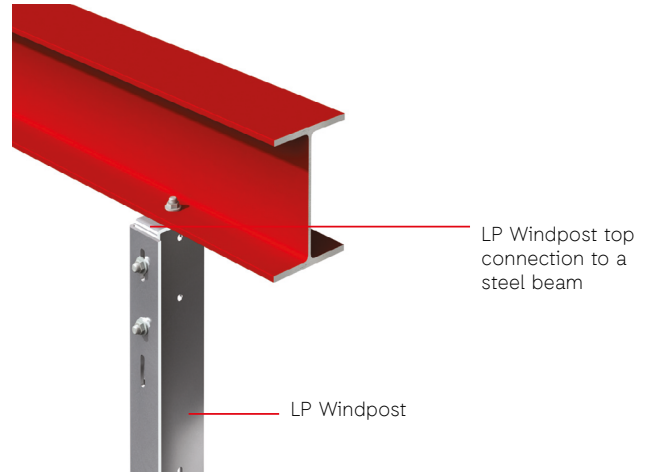
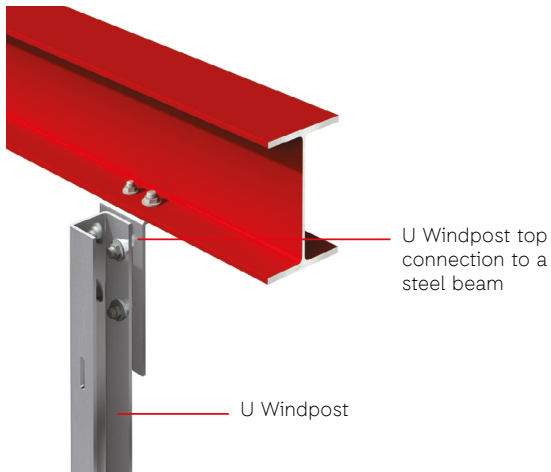
Typical base connections

All IG Windposts are designed with top and base plate connections for fixing to the super structure of the building. It is important that Windposts are fully fixed before commencement of the brickwork.



Typical top connections

All IG Windposts are designed with top and base plate connections for fixing to the super structure of the building. The top connection allows for shrinkage or vertical movement of the frame.



Installation

Correct installation is essential for the success of each project. Connections to the structural frame are designed and approved prior to the supply of Windposts and associated accessories. The following rules should be followed:

- Positioning of the Windpost should adhere to the client's structural drawings and/or Construction Issue Drawings if provided by IG Masonry Support
- Windposts must always be installed vertical in both planes to allow Wall Ties to slide in the slots if expansion of the frame occurs
- Only use fixings supplied by IG Masonry Support
- Use all fixings provided and tighten nuts to torque settings detailed on fixings box or in the Construction Issue Drawings if provided by IG Masonry Support.

Top and base connections

To allow for adjustability, slotted holes are incorporated into the top and base connectors. Where Cast-in Channels are utilised parallel to the slab edge, a serrated pad and washer are supplied. Where expansion bolts are used, circular holes or slots parallel to the slab edge are sufficient. The top connection should additionally have a vertical slot or slots (with no serrations) to allow the structural frame to move.

Wall Ties

Wall Ties should be installed in each slot of the Windpost with a minimum embedment of 50mm into each leaf.

A1 non-combustible material

IG Windposts are manufactured from 304 Stainless Steel (1.4301). Stainless steel is considered A1 fire-rated without the need for testing in accordance with the guidance of the European Commission Paper 96/603/EC as referenced in BS EN 13501-1:2018.

Installation training

IG Masonry Support provides onsite installation training and support from its experienced team of structural and civil engineers.

Specifying and ordering

IG Masonry Support manufactures Windposts to the specification provided by the client's Structural Engineer. All IG Windposts are supplied with specifically designed base and top connections and suitable Wall Ties.

Windpost Sales and Enquiries

For more information
please contact our Technical Team

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