

WI System

A revolution in masonry construction

Wembley Innovation working in partnership with



Incorporating bespoke components, the WI System from Wembley Innovation is a revolutionary approach to masonry construction that increases lateral load capacity.

Used in combination or individually, WI Columns and WI Beams completely eliminate traditional steel windposts and concrete lintels from masonry wall construction.

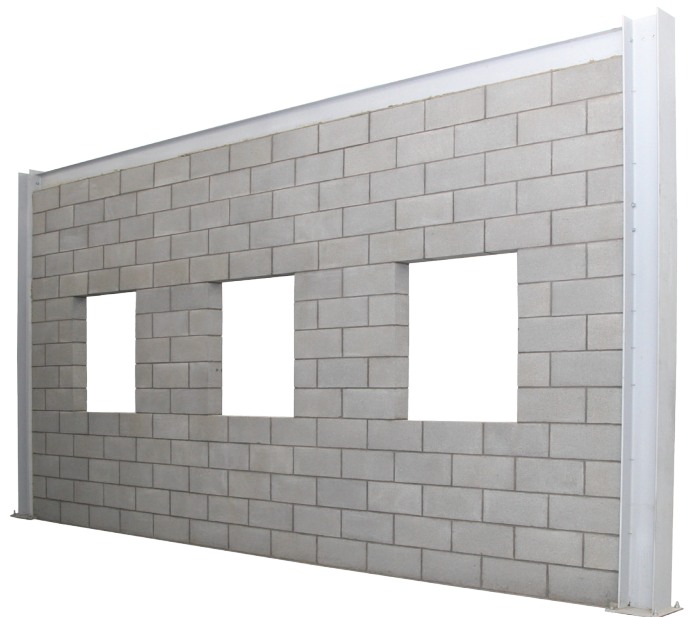


Traditional windpost construction

Traditional masonry construction using steel windpost and concrete lintels

WI System construction

WI System masonry construction incorporating WI Beam components



Bespoke components, simplified design

The complete masonry solution with no steel windposts

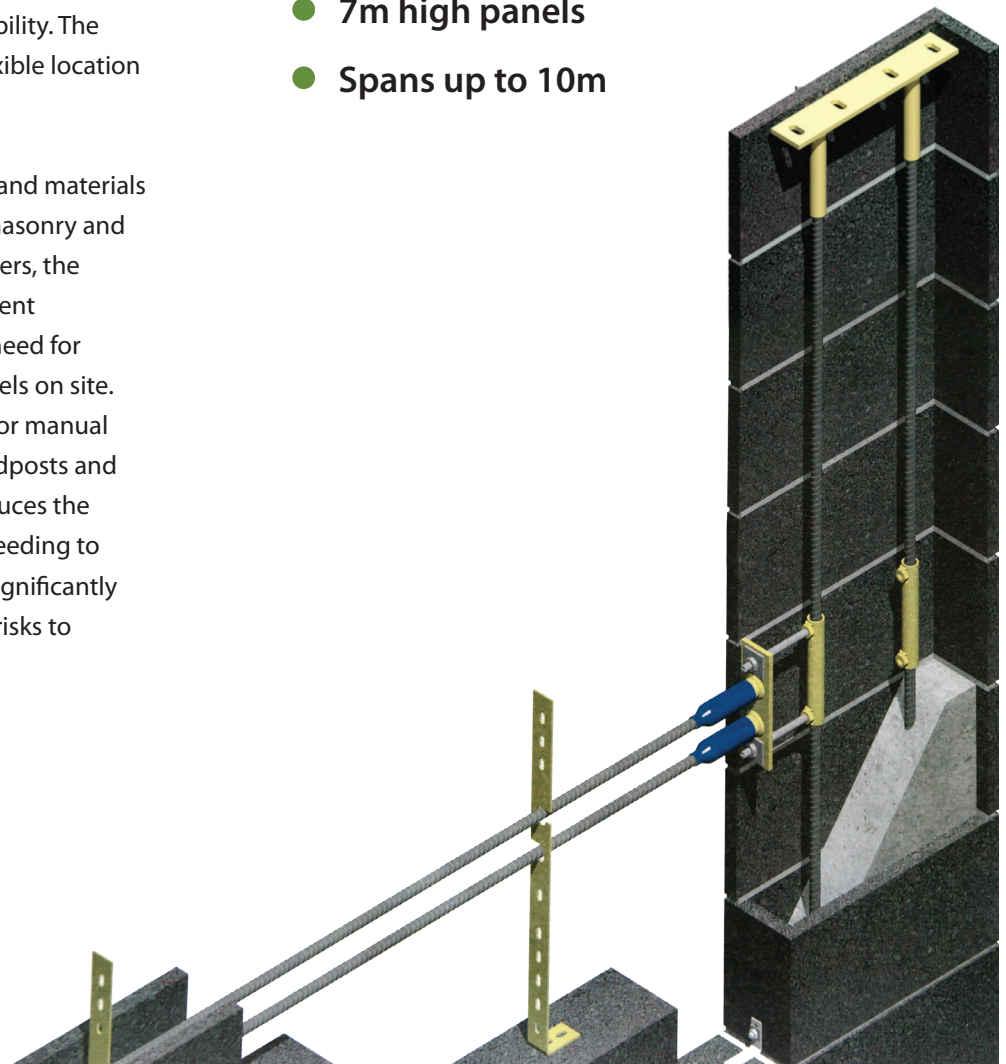
The WI System offers architects uninterrupted blockwork panels with flexible detailing options to resist lateral design loads, without resorting to traditional construction methods using steel windposts.

The simplified design process of the WI Beam and WI Column systems will reduce build time and costs by 17% compared with traditional windpost construction.

An innovative combination of masonry and reinforced concrete construction, the WI System significantly improves the architectural and aesthetic appearance of masonry walls whilst retaining the performance characteristics of traditional masonry such as fire integrity, acoustic performance and air permeability. The system also allows for the flexible location of service penetrations.

Using standard components and materials from the industry's biggest masonry and steel component manufacturers, the WI System reduces procurement lead times and removes the need for storage of windposts and lintels on site. Whilst eliminating the need for manual handling/fixing of heavy windposts and lintels the WI System also reduces the number of masonry blocks needing to be cut during construction, significantly reducing the health & safety risks to site workers.

- 17% cost savings
- EN 6 based design
- Simple details and procurement
- Improved acoustics
- Integral fire resistance
- 100, 140, 190 and 215 block range
- Flexible location of service penetrations
- CDM compliant
- 7m high panels
- Spans up to 10m





Camden Market, London

Innovative masonry design

Eliminates windposts

Efficient construction

Cost & time savings

Improved aesthetics

CERAM tested

Wide range of applications

Standard components



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"WI COLUMN", "SLOT BLOCK", "U-BLOCK", "WI BEAM" and the "Wi" device mark are registered Community trade marks of Wembley Innovation Limited. The WI BEAM / WI COLUMN building system and its components are the subject of a number of Community design registrations (CDRs), patents and patent applications, including: CDRs 881263-0001 to 0005, 992136-0001 and 1126635-0001; UK patent nos. 2440531, 2442543, 2469272 and 2485397; International patent applications WO2008/015407, WO2009/098446, WO2009/147427, WO2012/063074 and national/regional equivalents.