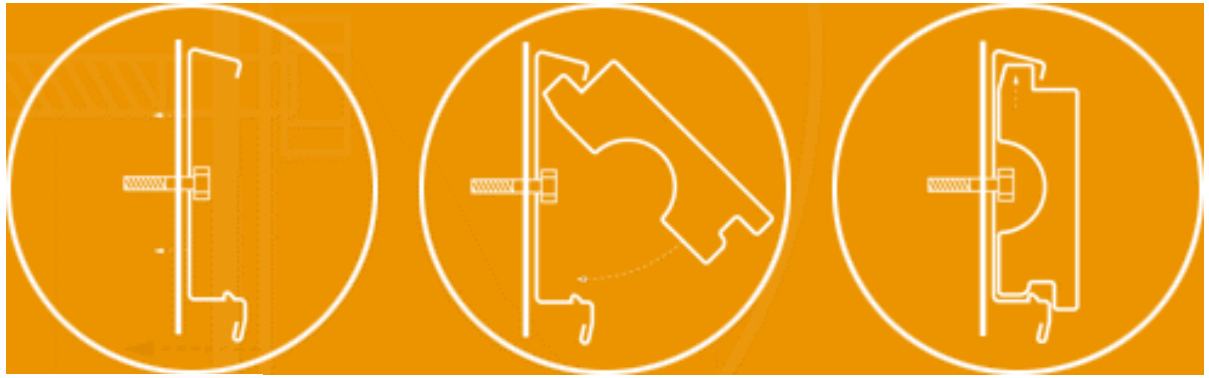
Corium Brick Cladding – PreFab Construction

Wienerberger
Building Material Solutions



Architectural Products Magazine's PIA product innovation awards

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/Overview

Made in Germany, this unique and versatile brick system combines the natural beauty of genuine bricks with a durable, lightweight and cost-effective installation.

The revolutionary Corium system ingenuously combines a metal drainage plane with mechanically attached, high density brick tiles.

The interlocking trays form a durable, adjustable, drainage plane which can be individually installed or fabricated onto a variety of substrates.

The brick tiles are easily clipped into place in the field or in a factory. This “clipping” feature is unique to Corium and ensures permanent attachment.

Corium is not building height restricted, sky is truly the limit!

Patented worldwide and tested in the USA, you are assured a strong, durable, high quality system to last a lifetime.

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/Process

Panel fabricators are very secretive about their support components due to patents and unique features but photos provide some insight to various configurations.
The fabrication process for these systems is nearly the same as you will see in the enclosed images.

Galvanized steel sections are lightweight and are floor or column spanning depending on the overall dimensions.

Steel sections are railed, tiled, mortared and typically include a gasket behind the panel for weatherproof integrity.

This construction is very accurate - +-2mm per panel normally which you can see from the illustrations is very accurate indeed.

The steel rails are designed to shed water and once fixed to the substrate give the system extra rigidity. The brick tiles and mortaring are simply decorative, durable elements.

Fabricated panels are excellent acoustically and thermally as they are packed with dense insulants.

The pointing with Parex Historic Lime mortar can be done off or on site but the higher the building the more advantageous it is to point them off site for transport later. The complete panels travel with ease; by road, sea or air.

The SFS manufacturing processes are heavier but don’t have any issues with twisting or racking during the transportation process.

Upon delivery to site modular panels are installed by crane or lifting mechanisms. Lifting eyes and guide wires maintain position through installation. Typically designed with three-way adjustable bracketry ensuring positioning and providing flexibility to adjust the panels up and down, side to side and back and forward for proper alignment.

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/Q & A

Who typically installs the system? Is there a certification process or training for installers?
Due to simplicity, any trade can (and has) successfully installed this system. The primary support system is most critical, but the intelligent design of the brick system takes out the complexity and provides maximum quality control. Corium is so simple its hard to get wrong.

What is the typical lead time for installed components, with emphasis on custom components?
Typically, 12-16 weeks from order to jobsite delivery.

Where are the components manufactured?
Brick is made in Germany by Wienerberger AG, Trays are made by ArcelorMittal at any one of their European facilities. Mortar is currently made in the UK, however we also have US options.

Is there an order of installation required for the Corium System?
The order of installation is Substructure, Trays, Bricks and Mortar. Contractors often install the brick in the Winter and install the mortar when temperatures rise in the Spring.

How are the corner pieces installed / anchored?
One Piece Corners are simply snap-locked into the tray system. High seismic zones require an additional fastener at each corner.

What governs the maximum design wind load or pressure?
We are ASTM tested to 90psf, approximately 180mph wind speed.

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Is Corium building height limited like other thin-brick systems?
No, Corium is a mechanically attached brick system and does not rely on adhesives nor does Corium contain combustible materials therefore we are fully high-rise capable.

Can Corium be installed on a soffit?
Yes, Corium can be installed in overhead/soffit conditions with the same details as a wall assembly. An edge installed Pistol Brick creates a seamless transition.

Is it possible to add reveals, protrusions, or a radius to the system or does an installation have to result in planar surface?
Yes, all the above are available and easily achieved, custom brick modules also possible.

What bond patterns are achievable?
All traditional masonry patterns are available and others not possible with traditional masonry.

When installing the system itself on a slope, what is the limitation of the slope if any?
We recommend a 1/12 pitch minimum.

When installing the brick as slanted, what is the limitation of the angle if any?
Any circular angle is doable by merely rotating the trays, the brick units are tightly friction fit when turned vertically.

How is moisture entering through the brick and mortar accounted for, i.e. how does it dry out?
The high-pressure extruded brick has an extremely low absorption rate but if water enters the system it will be handled in two ways:
1. Design of the metal trays will shed water.
2. The lime-based (non-cementitious) mortar will absorb the water for evaporation at the surface. Our mortar allows the system to breathe, flex and dry.

MIT Student Housing

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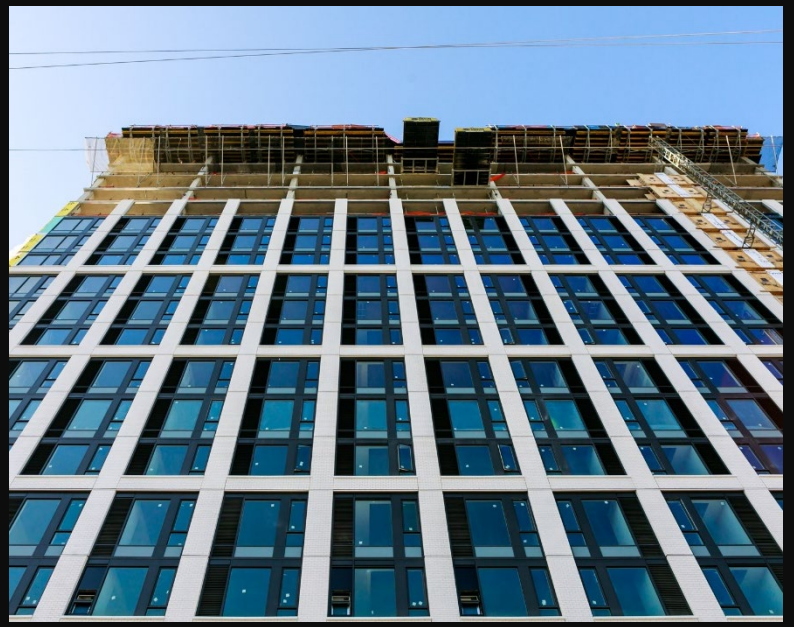

Portland
ART Tower

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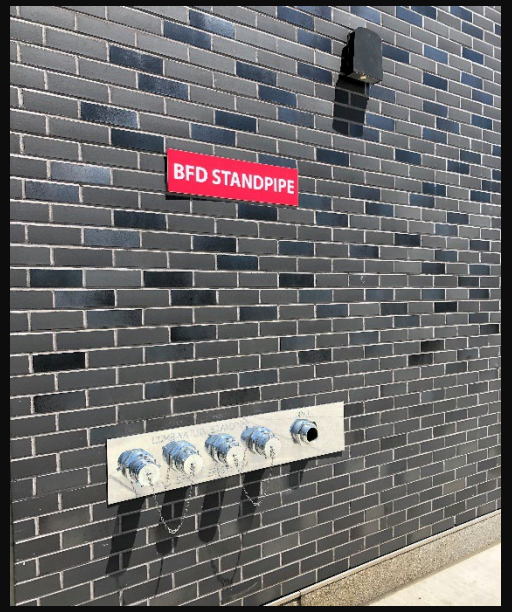

New Street
Boston Harbor

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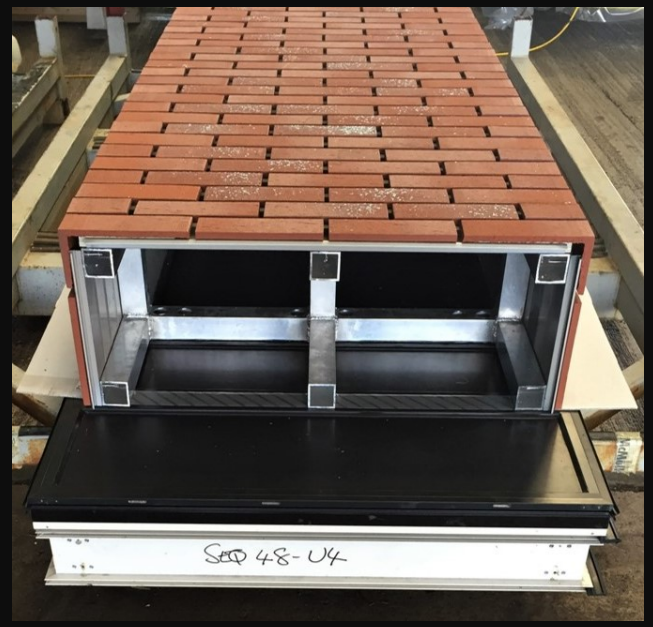

McMullens
Central Square

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Mid Kent College

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Hercules House

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Merrion House

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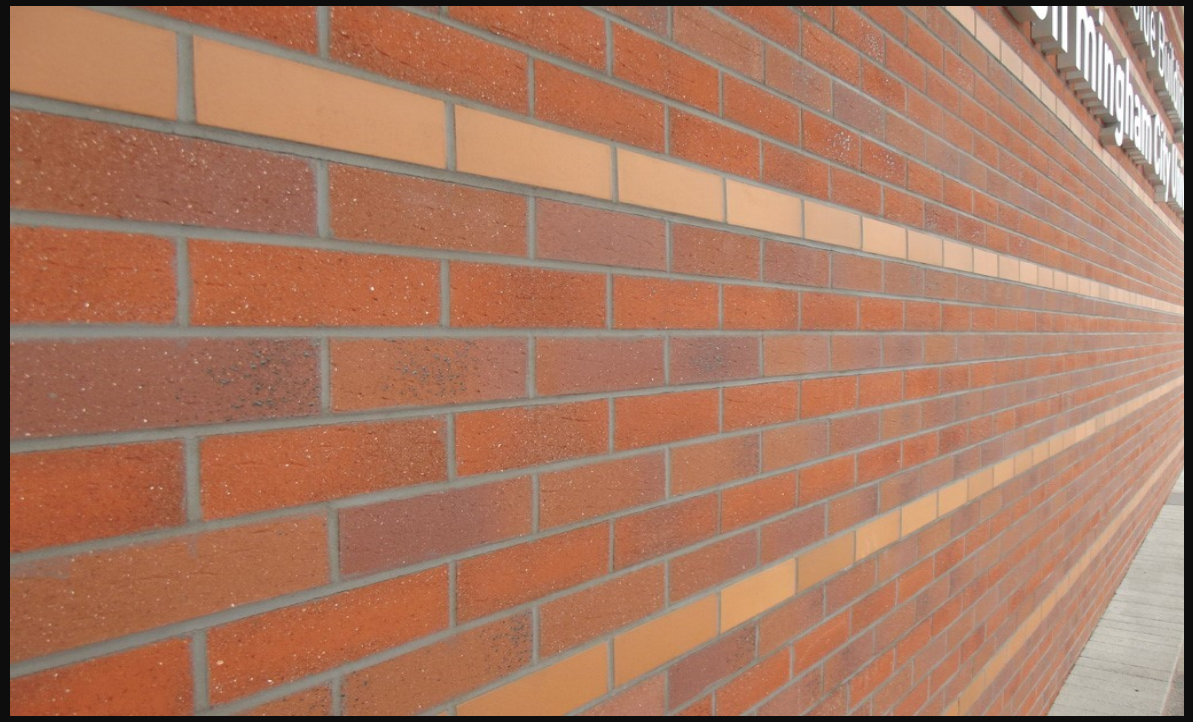
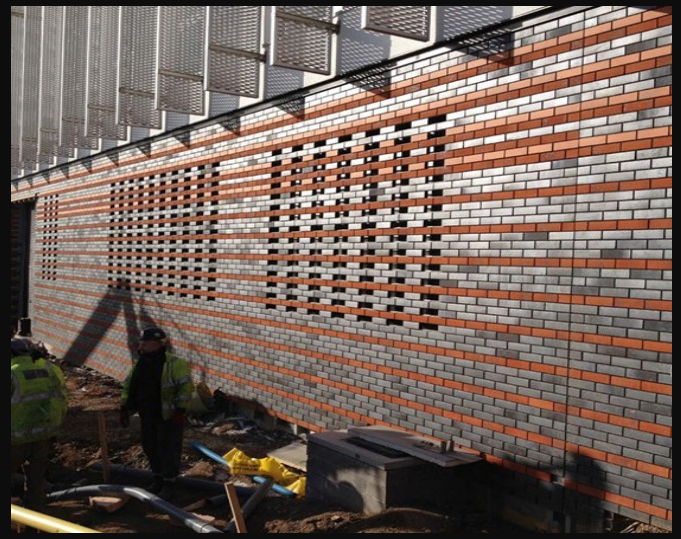


Alumet Birmingham University



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