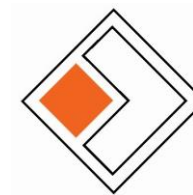




*Creative clay façade architecture
that excites and inspires.*



Telling

Architectural Systems, LLC

ENGINEERED RAINSCREEN FACADES



Argeton

FSi

FACADE SYSTEMS INC.



NOVAK CENTER FOR CHILDREN'S HEALTH

KentuckyOne Health Fraser Rehab Institute and Neuroscience

Medical Plaza
Novak Center for
Children's Health
U.S. Physician
Outpatient Center

U of Louisville, KT



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Learning Objectives

- Terra Cotta Manufacturing
- Explore design options
- Ordering process
- Construction
- Fabrication
- Learn what makes a successful project
- Case studies



Why Terra Cotta and Argeton

- ✓ Design freedom: limitless shapes, sizes, colours, textures but can also have a simple, minimalist viewpoint.
- ✓ Extremely efficient construction method, due to its well-designed system approach, making terracotta very affordable.
- ✓ Made to measure: only order what you want, down to the millimeter. Reduces carbon footprint, waste and shipping costs vs any 'one size fits all' products.

Built on the bedrock of experience in design and construction, tenacity for highest levels of customer delight, and backing of a the global leader in masonry products: Wienerberger



Argeton Terracotta

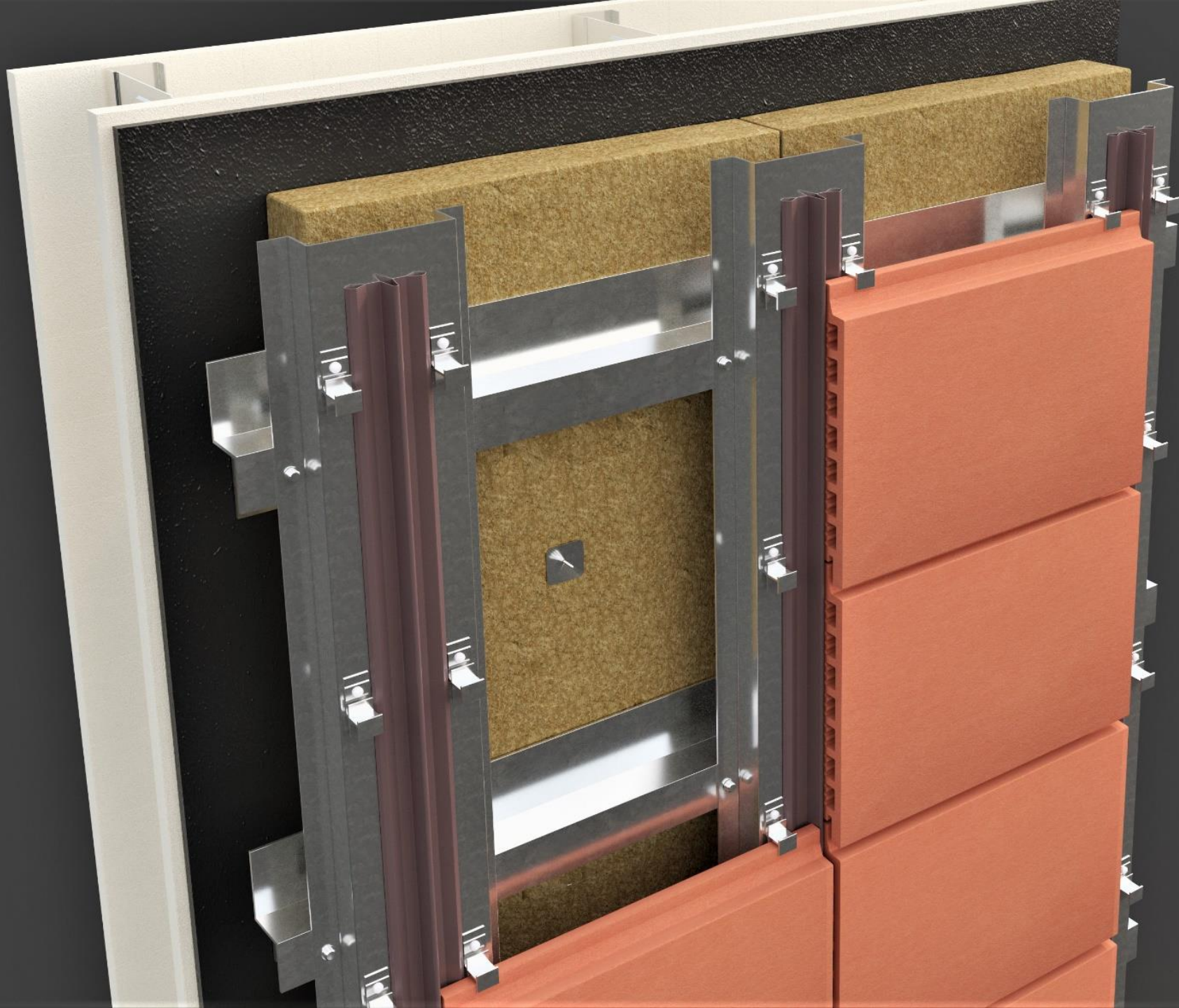
Argeton is the original manufacturer of terracotta tile. Developed in Germany in the early 80's, Argeton has been successfully installed on **thousands of projects in more than 30 countries**. In 2005 the Argeton System and Mueller were purchased by Wienerberger GmbH – currently the largest manufacturer of clay product in the world.

Today the name Argeton stands for quality, aesthetics and creativity. The success story is based on future-oriented product development, service-oriented sales and quality assurance of a large group.

Terracotta Rainscreen Systems





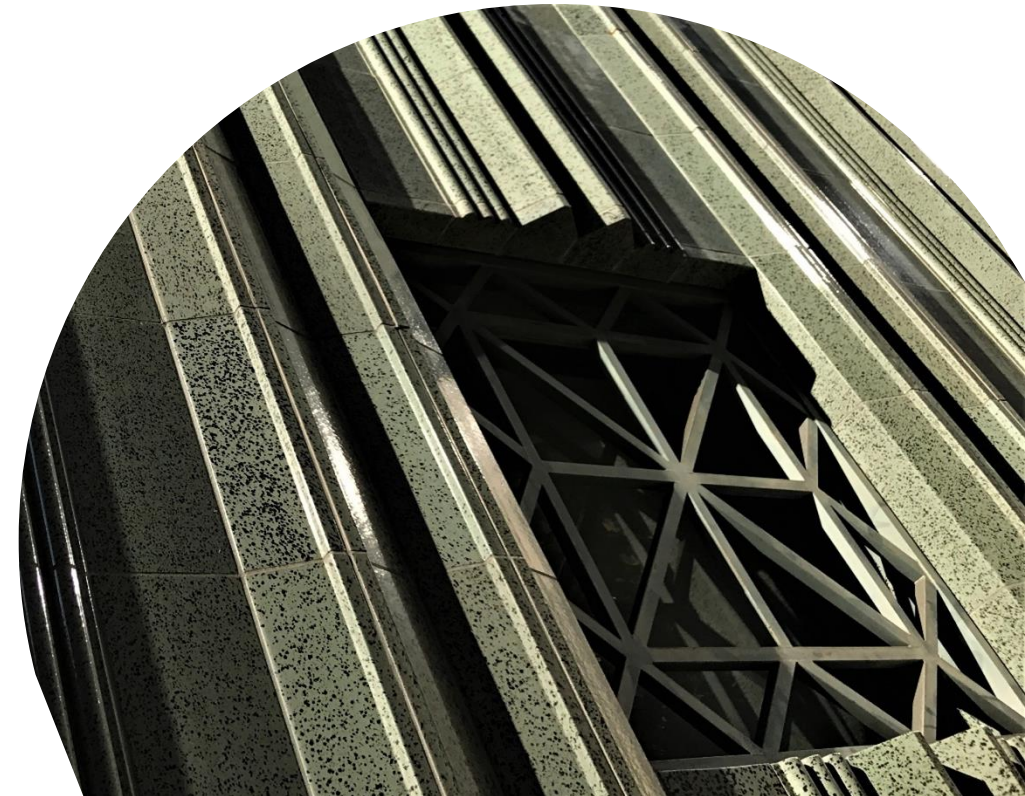


**Terracotta Rainscreen
Design & Function**



History or Terracotta:

Terracotta is an ancient building material that translates from Latin as "cooked earth". It can be unglazed, painted, slip glazed, or glazed. A piece of terracotta is composed of a hollow clay web enclosing a void space or cell. The cell can be installed in compression with mortar or hung with metal anchors.





Terracotta is shown here on this university campus in France in two distinct forms

Creative clay façade architecture that excites and inspires.

Simple use of standard panel size for efficient construction, but creative use of surfaces and colours.





Extruded Terracotta



Automated Manufacturing

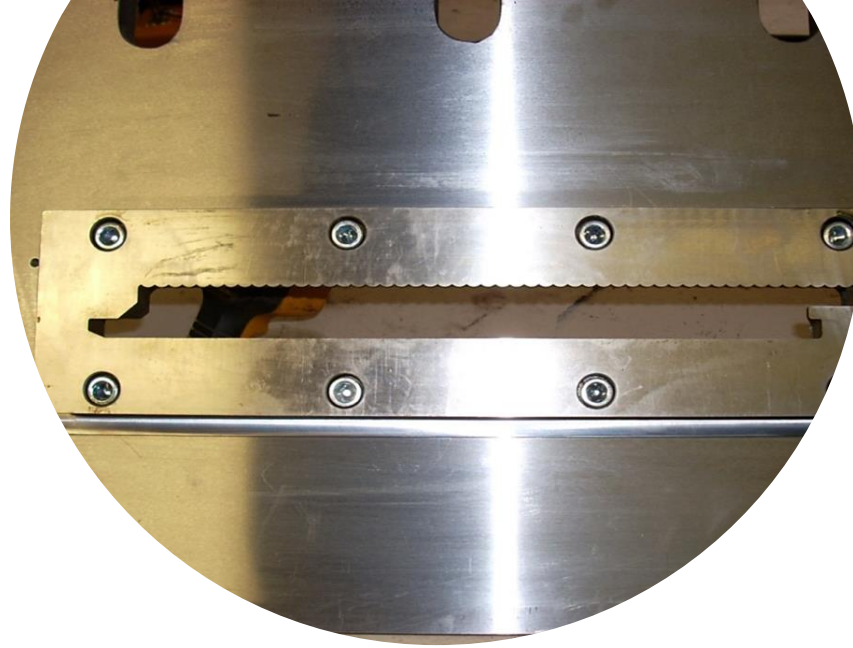
Tiles are produced by pushing clay through a die to develop a specific profile.

These extruded clay tiles are generally made up to 1500mm in length.

Once dried, the tiles are fired in tunnel kilns.

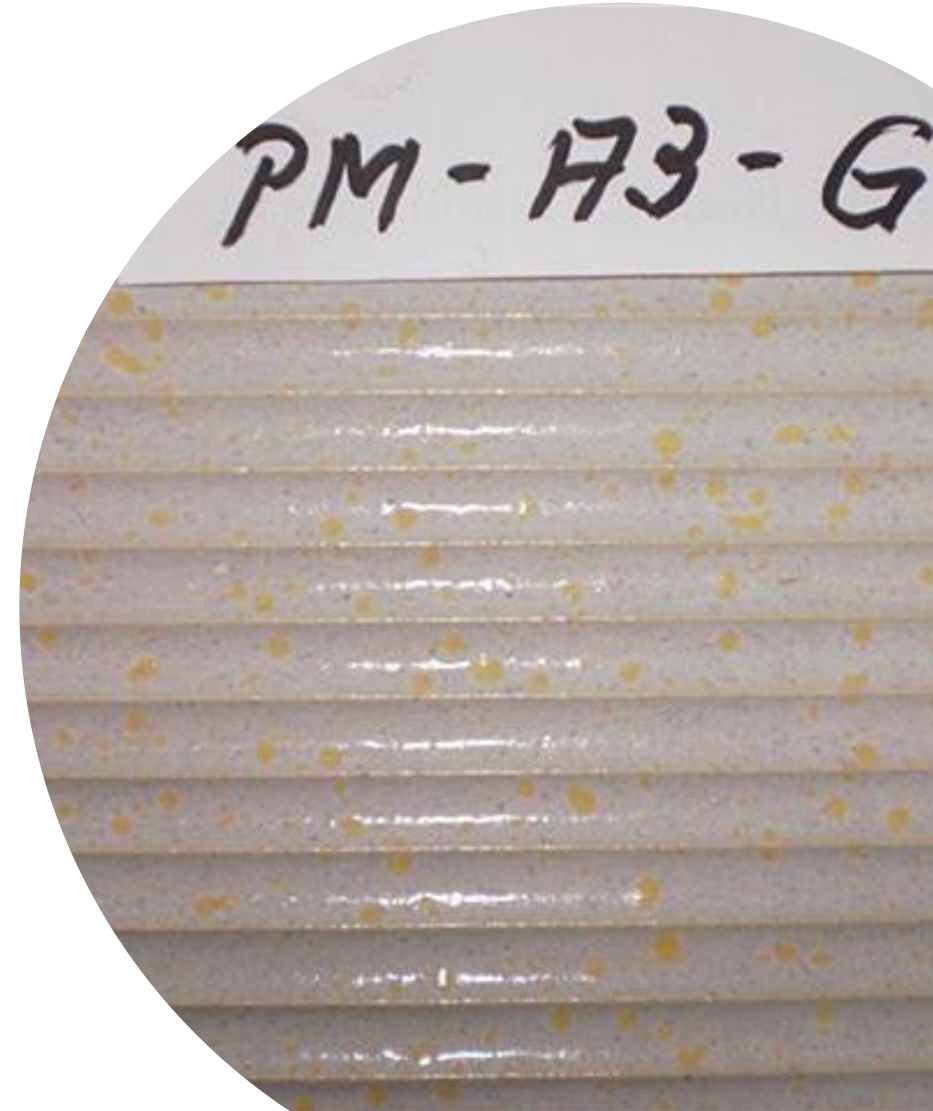
After firing, the “curl” is trimmed off to produce a smooth, flat tile edge.

The manufacturing process takes only a few days but clay preparation and consolidation typically results in a 12-week timeline.



Manufacturing – Tile Shapes

Stainless steel dies are created to produce various shapes, textures and profiles





Manufacturing – Drying & Firing

Extruded tiles are dried then fired in kilns at 1200 degrees F. The exact amount of time and temperature (firing curve) in the kiln determines the color of the tile.

Package & Ship

Prepared tiles are packaged for shipping and combined with sub-structure components by a “technical distributor” or Contractor who handles engineering & shop drawings.

Materials are sent via shipping containers and arrive to North American jobsite 4-6 weeks after firing.



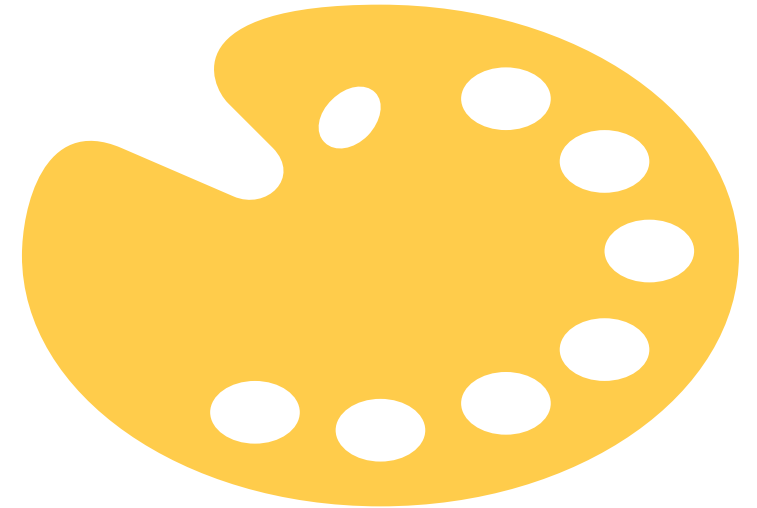
End Product: Sustainable, Durable, Non-Combustible System

The entire system consists of clay tile and aluminum. Clips that attach to the structure are thermally isolated with low-conductivity pads creating an efficient, durable, high performance system designed to last the life of the building





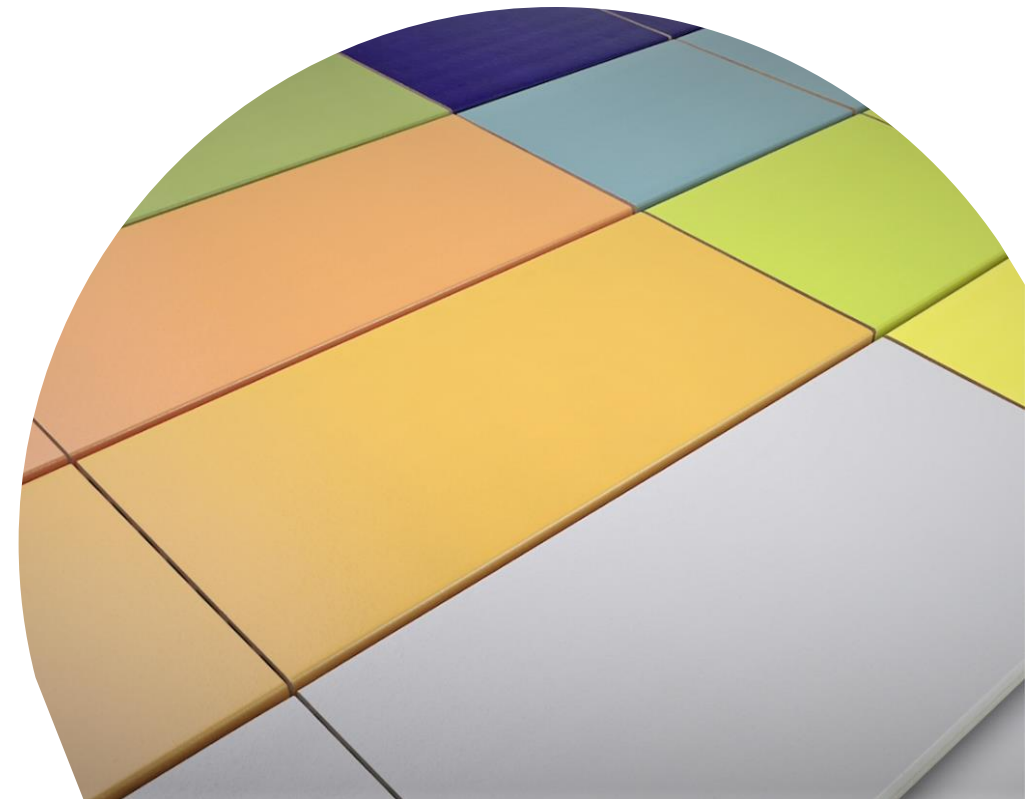
Design





Design Considerations

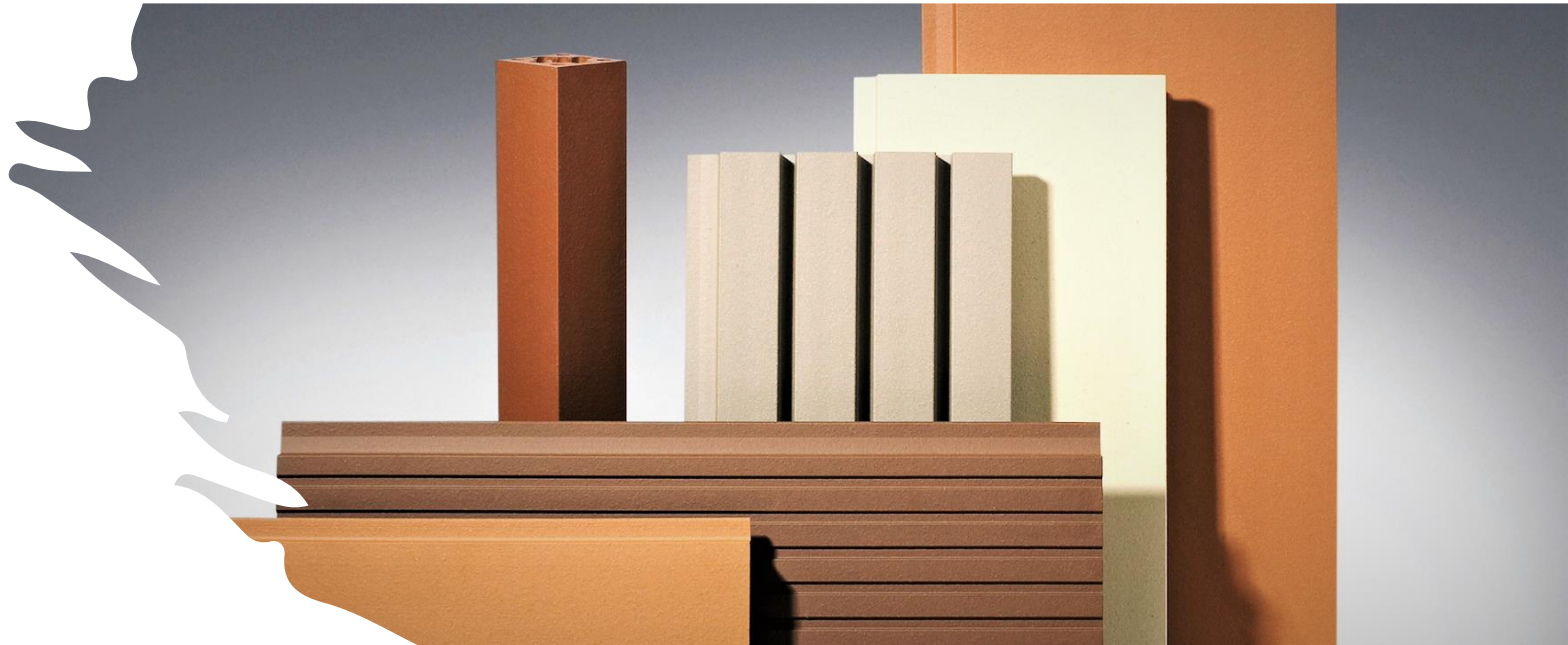
- ✓ Color
- ✓ Glaze
- ✓ Profile
- ✓ Patterns
- ✓ Size
- ✓ Orientation



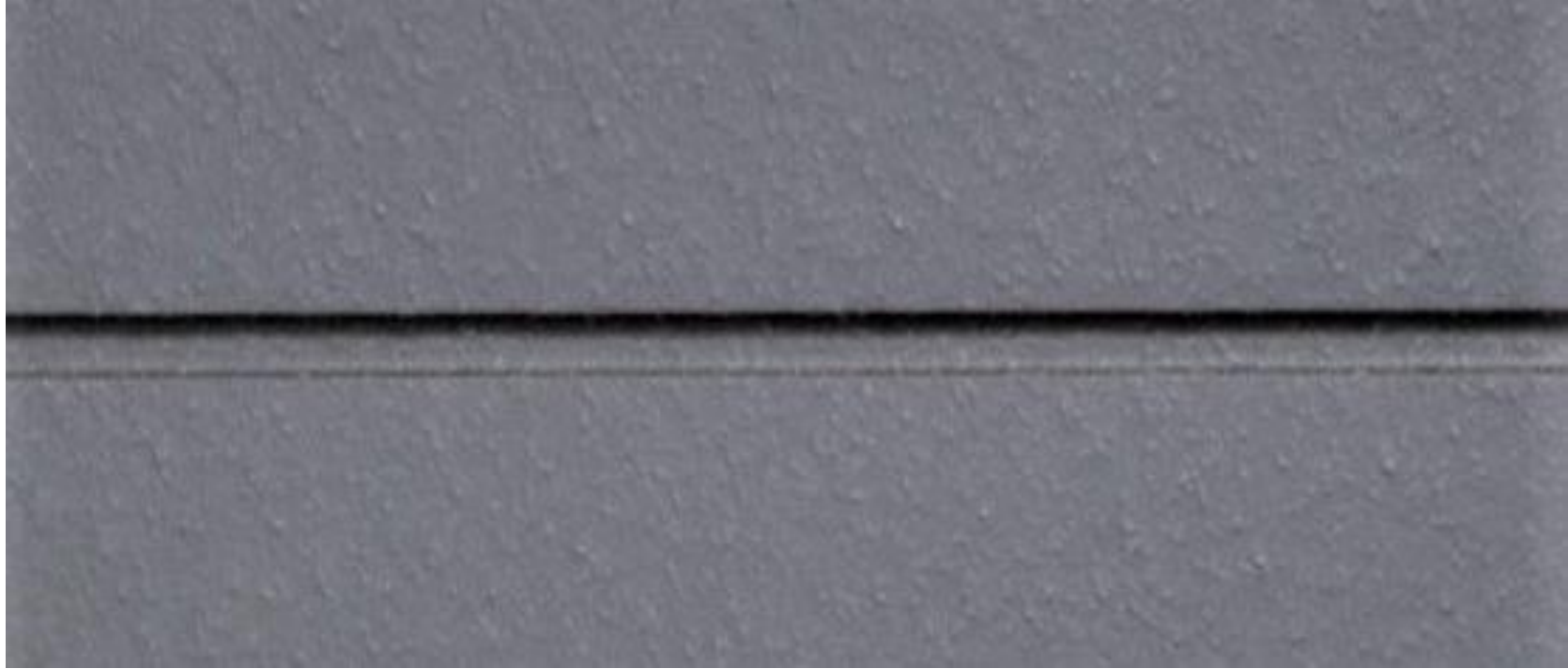
Design Considerations

Tiles come in sizes up to 500 x 1500 and in a wide range of profiles.

Custom profiles and dies easily created.



Standard Profiles





Custom profiles



New!

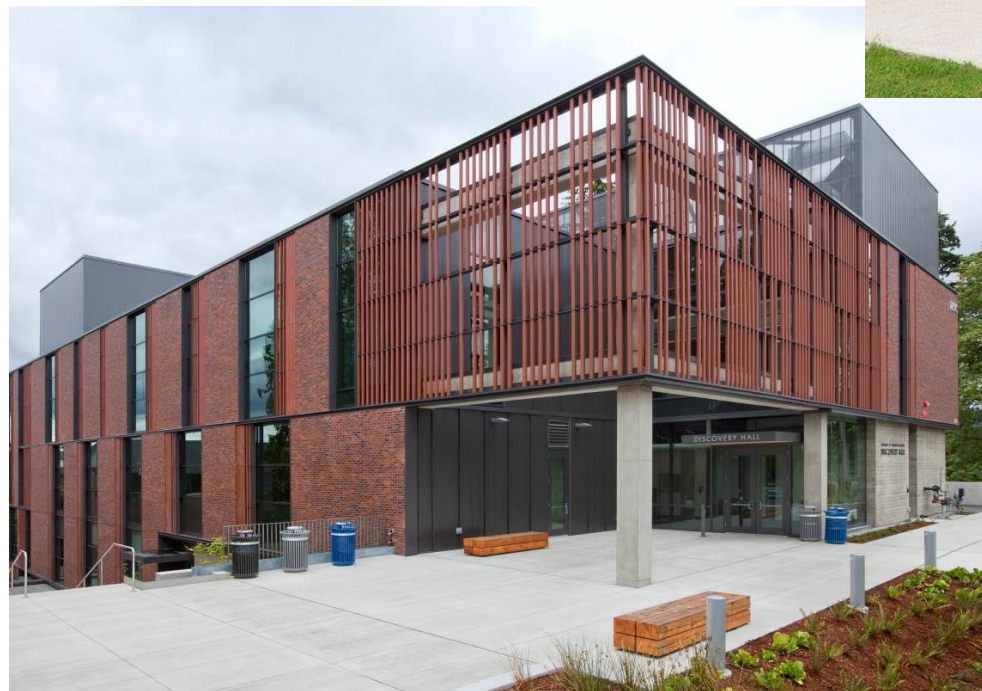
Inspirio Custom Glazing & Patterns



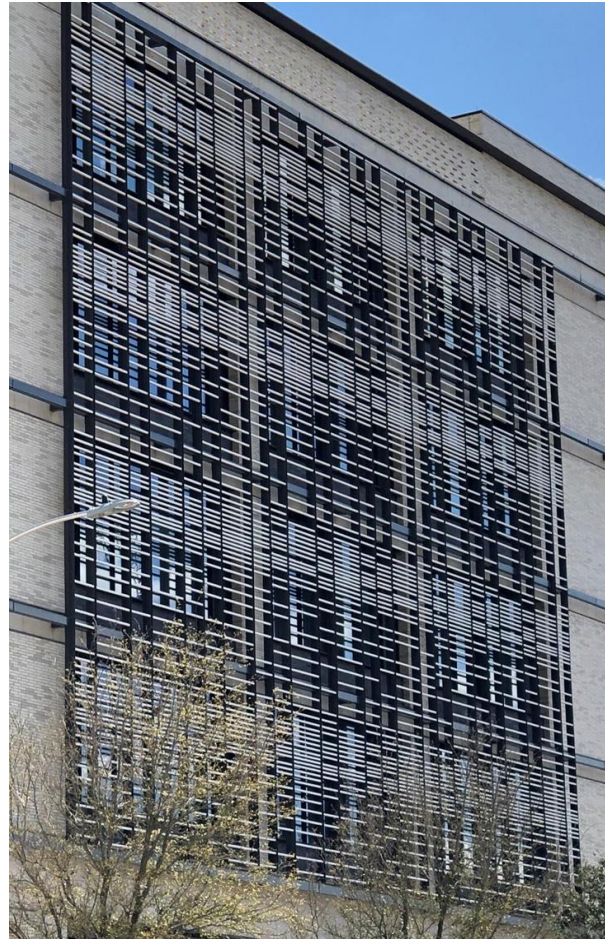


Terracotta Baguettes

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Baguettes used for Decorative Screening



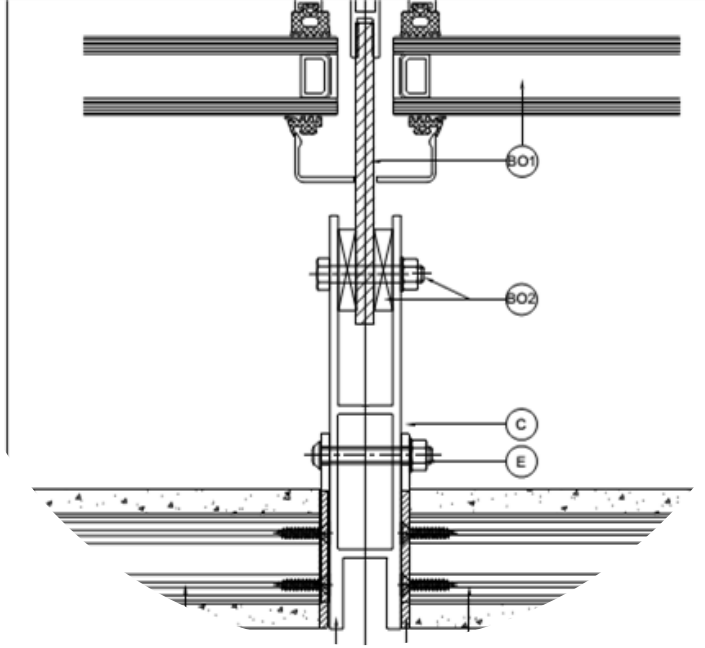
Attached to rainscreen wall or
integrated into curtain wall



A photograph of a modern building's exterior. The facade features a mix of materials: a central section of brick with dark grey accents, and vertical sections of reddish-brown metal slats. Large windows with dark frames are visible. In the background, there's an outdoor patio area with a table and chairs, and another building with a corrugated metal roof. The foreground shows a landscaped area with dark mulch and green plants.

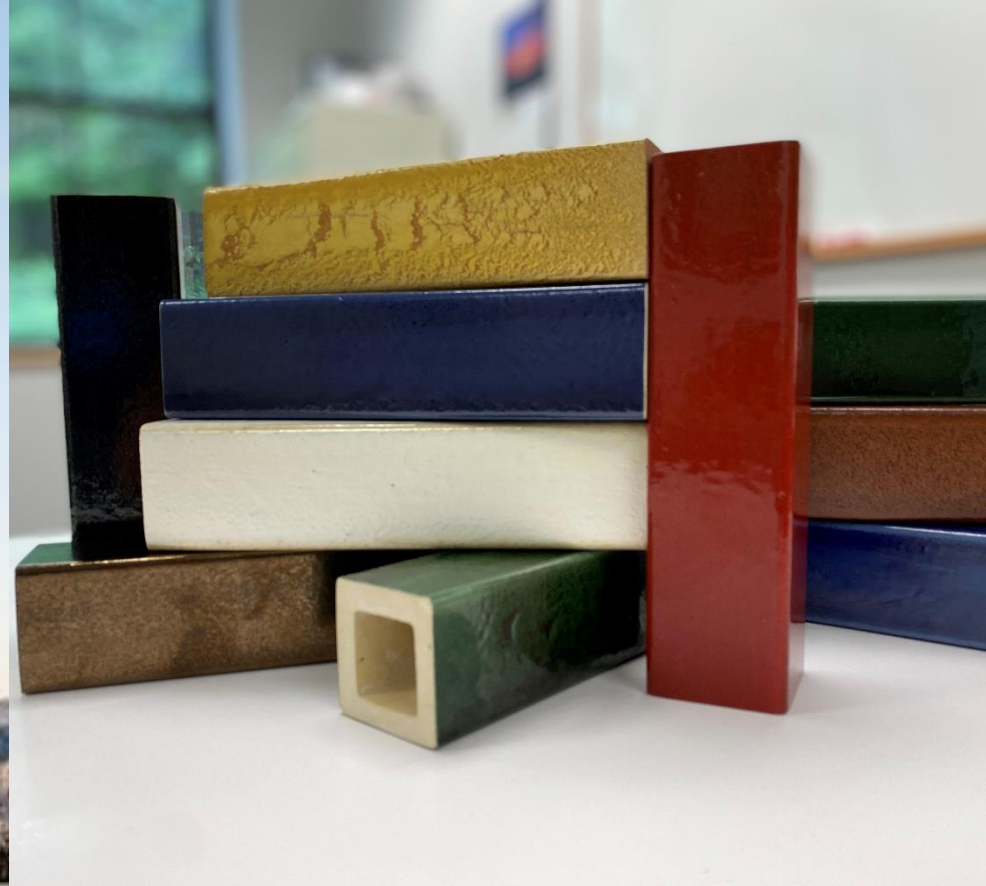
Baguettes and tiles

This project features vertically arranged 2" x 2" baguettes adjacent to vertical terracotta cladding and Corium Brick.



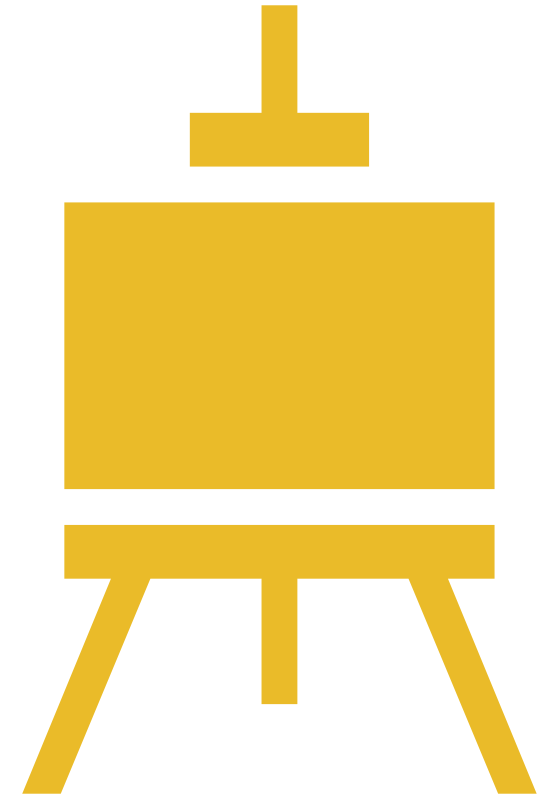
Limitless Attachment Systems!







More projects to inspire

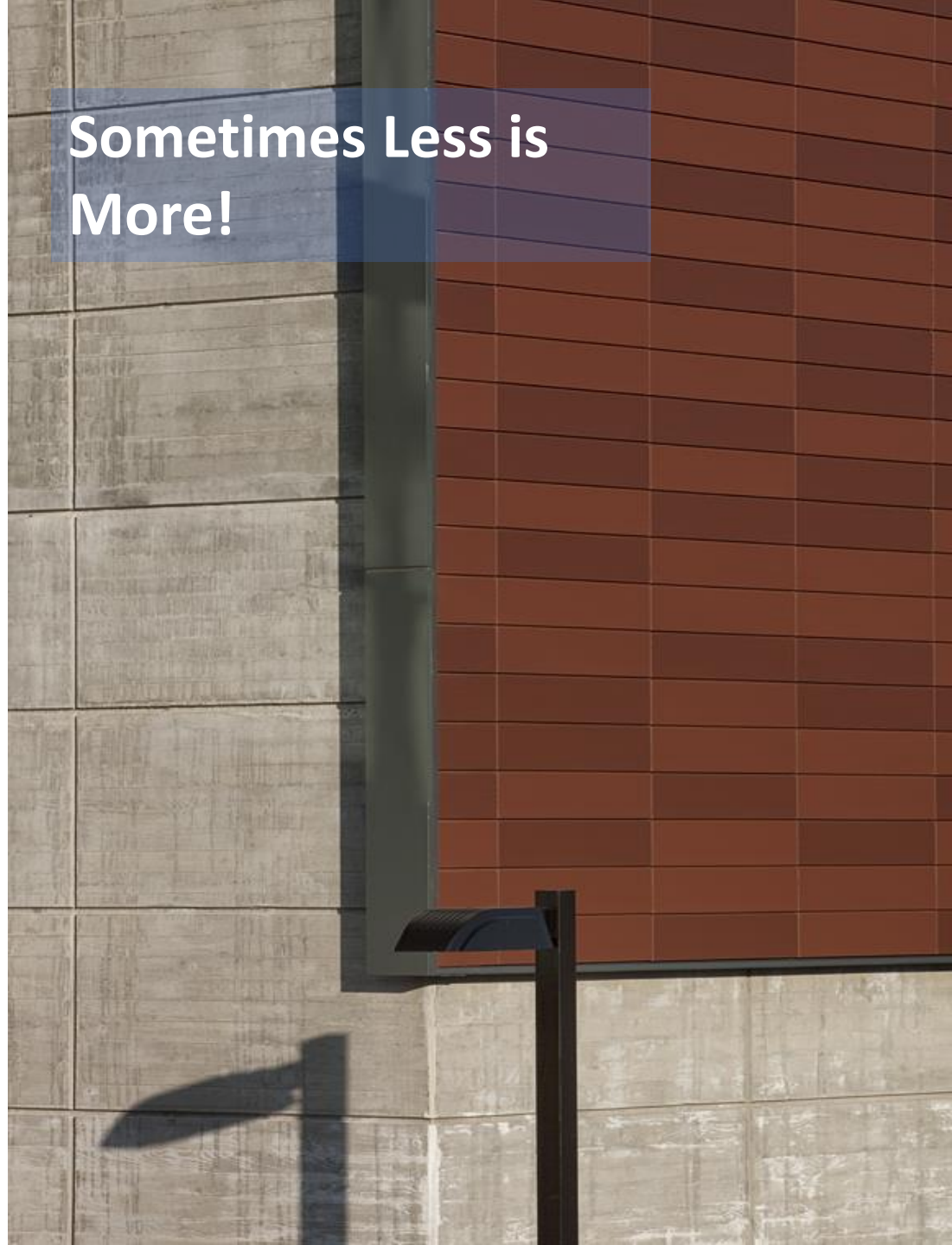












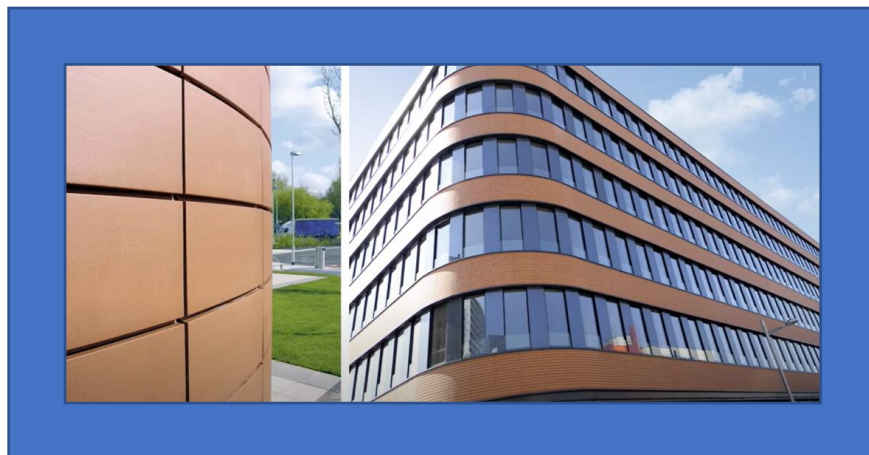
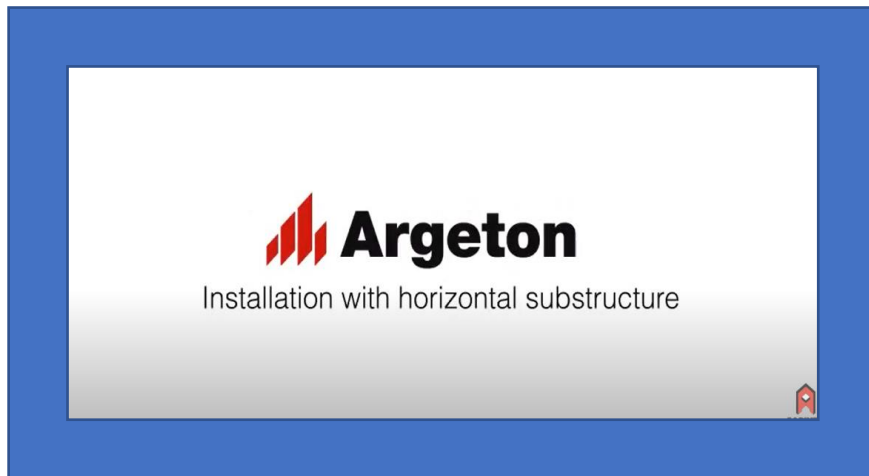
Sometimes Less is
More!







Videos (click on thumbnails)



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2021
Architecture
MasterPrize





What is next?

- Tells us your woes, challenges, and curiosities about high performance facades. You can help us help you or guide us on our next webinar.
- Under no obligation, let's review a project at any stage and discuss some ideas. **Let us budget your project in Argeton Terra Cotta.**
- or just give us a call. We love learning.

We hope we have set expectations about how you should proceed on thermal and structural aspects of high-performance facades... and taught you a bit about us, wink wink.

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Agent for Facades and Building Systems that are innovative, aesthetic, sustainable, constructible, affordable and proven.



Telling Architectural Systems

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