



# Architectural Cast Stone





- A. What is Architectural Cast Stone?
- B. Applications and uses for Architectural Cast Stone?
  - A. Ventilated Rain Screen
  - B. Adhered Veneer
  - C. Full Bed Depth Masonry



## A. What is Architectural Cast Stone?

A refined concrete building unit manufactured to simulate natural cut stones.

ASTM C1364

CSI 04 72 00

TMS Standards 404 504 604



**Architectural Cast Stone**

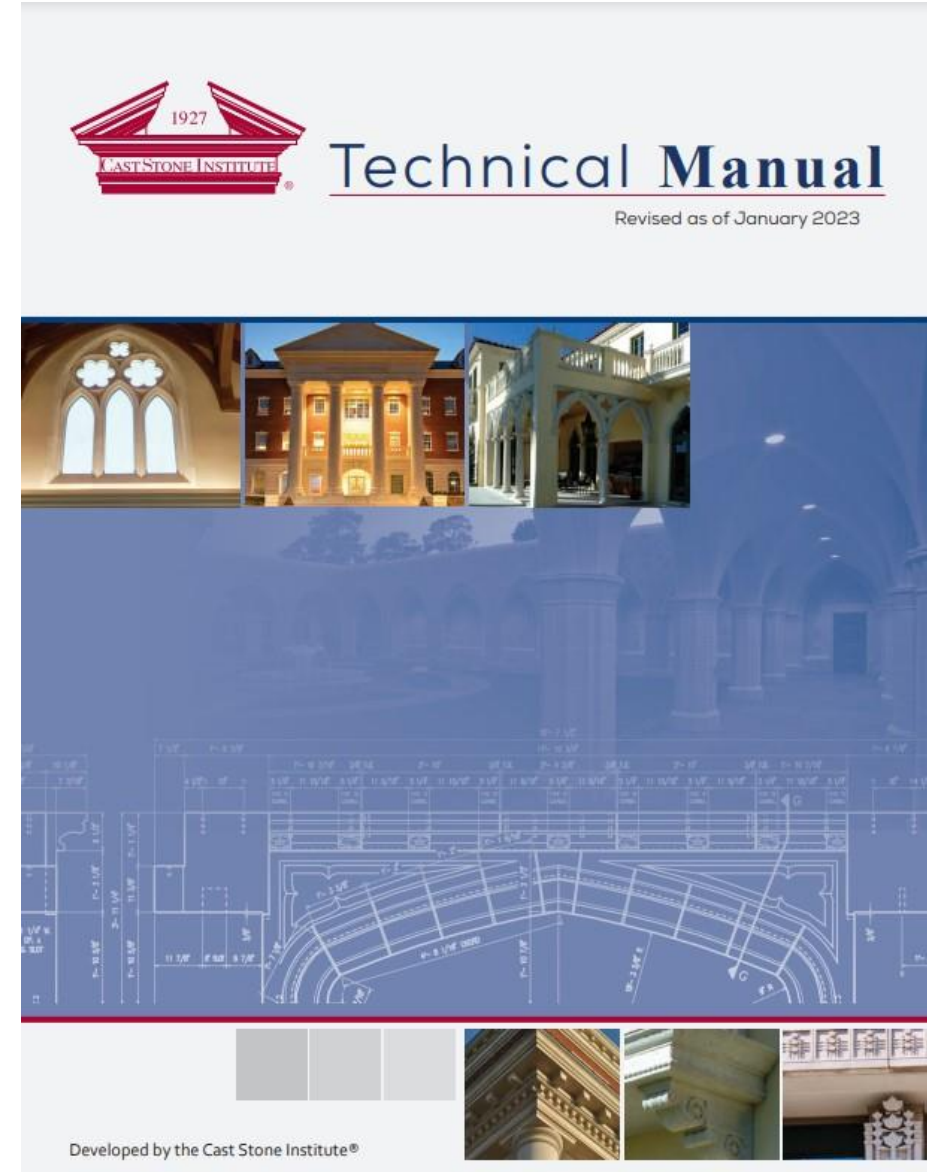
## A. What is Architectural Cast Stone?

### Cast Stone Institute

Formed in 1927 – Authoritative body for the Cast Stone Industry providing expert counsel to the architectural and engineering communities.

- Certification for Program for Producer Plants
- Online Technical Bulletins and Technical Manual
- AIA Programs
- National Awards Programs
- Associations with ASTM, The Masonry Society, NCMA
- Continuous product development/advancement

[www.caststone.org](http://www.caststone.org)



# Architectural Cast Stone

## A. What is Architectural Cast Stone?

### Physical Property Requirements

Minimum PSI – 6,500 PSI

Absorption - < 6%

Freeze Thaw - < 5% loss after  
300 cycles



# Architectural Cast Stone

## B. Applications for Architectural Cast Stone

1. Ventilated Rain Screen
2. Adhered Veneer – 1" – 1-1/4"
3. Full Bed Depth Masonry
  1. Veneer
  2. Custom
  3. Stock Shapes
  4. Signage



**Architectural Cast Stone**



## 1. Cast Stone and Ventilated Rain Screens

Architectural Cast Stone is a centuries old building material used widely in the United States since the early 1900's. Cast stone is a sustainable product used in full bed depth masonry construction as well as thin veneer systems. The high strength and low absorption properties of architectural cast stone make it an excellent veneer for ventilated rain screen system.

The variety of profiles and colors allow the designer the ability to create unique facades without creating higher costs.



# Architectural Cast Stone

# Cast Stone and Ventilated Rain Screens

## Additional Technical Data

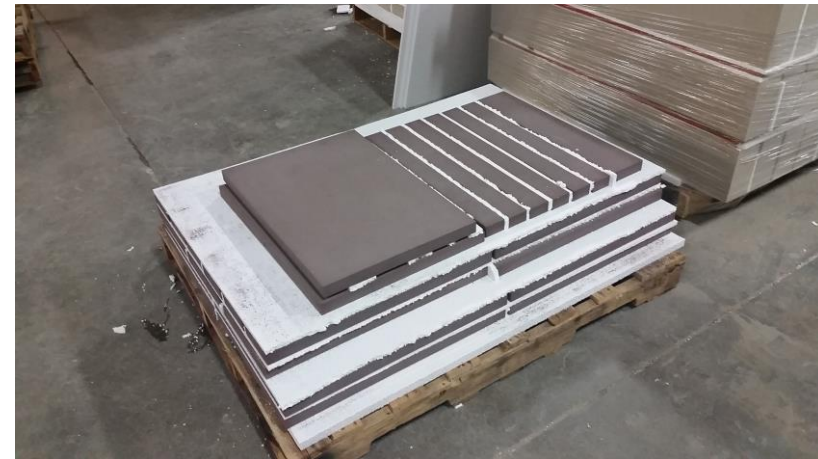
ASTM C97 – Absorption / Density Tests

ASTM C99 - Modulus of Rupture

ASTM C880 – Flexural Strength

ASTM C1354 - Kerf Tests

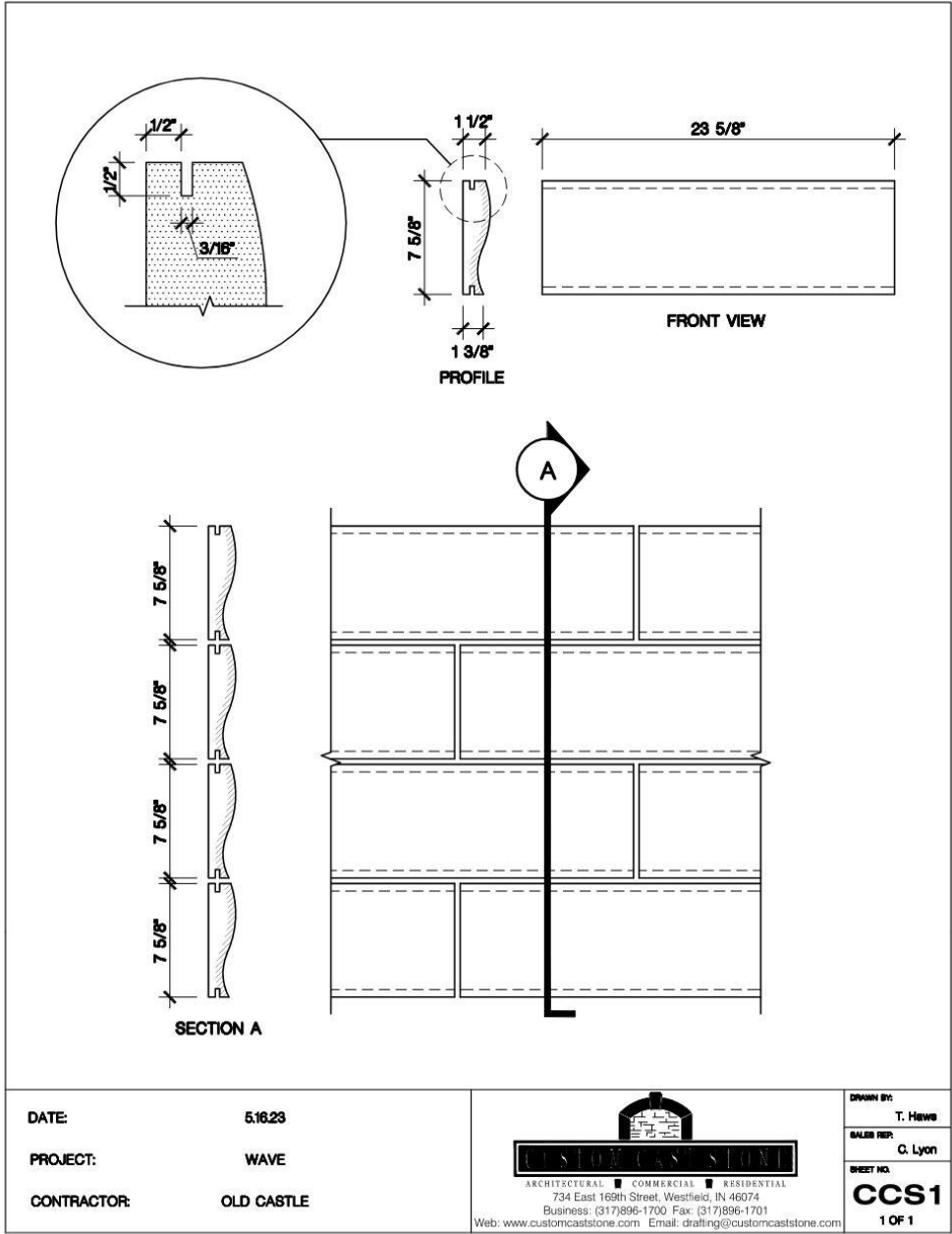
pH Testing



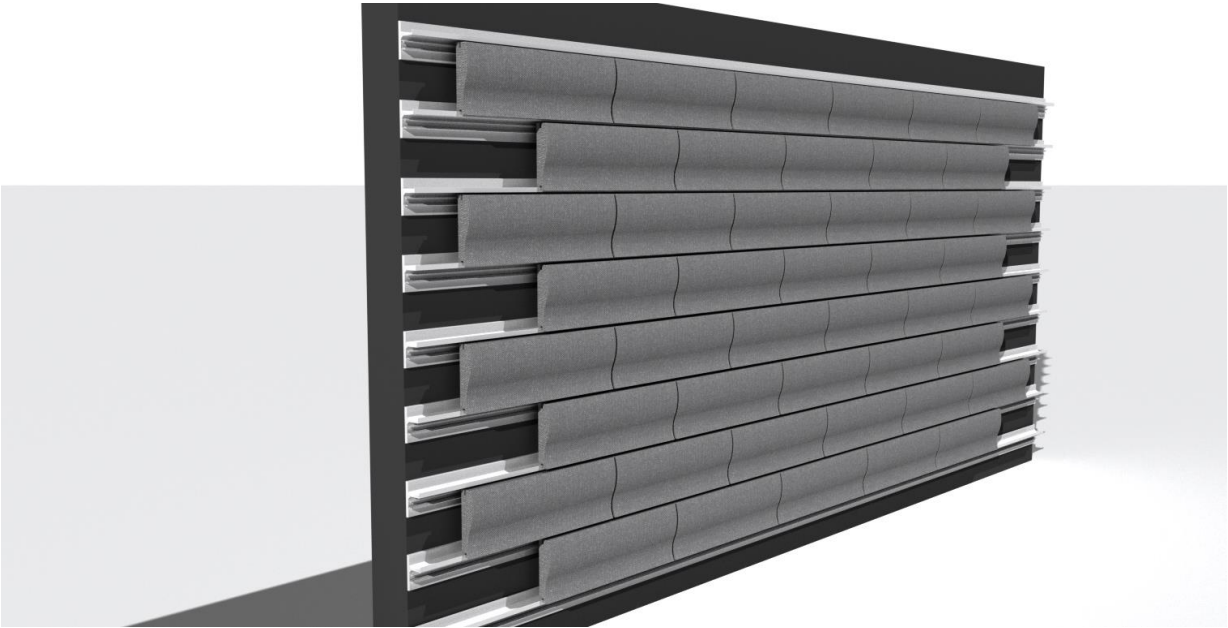
## Architectural Cast Stone



# Design + Architectural Cast Stone + Rain Screen System

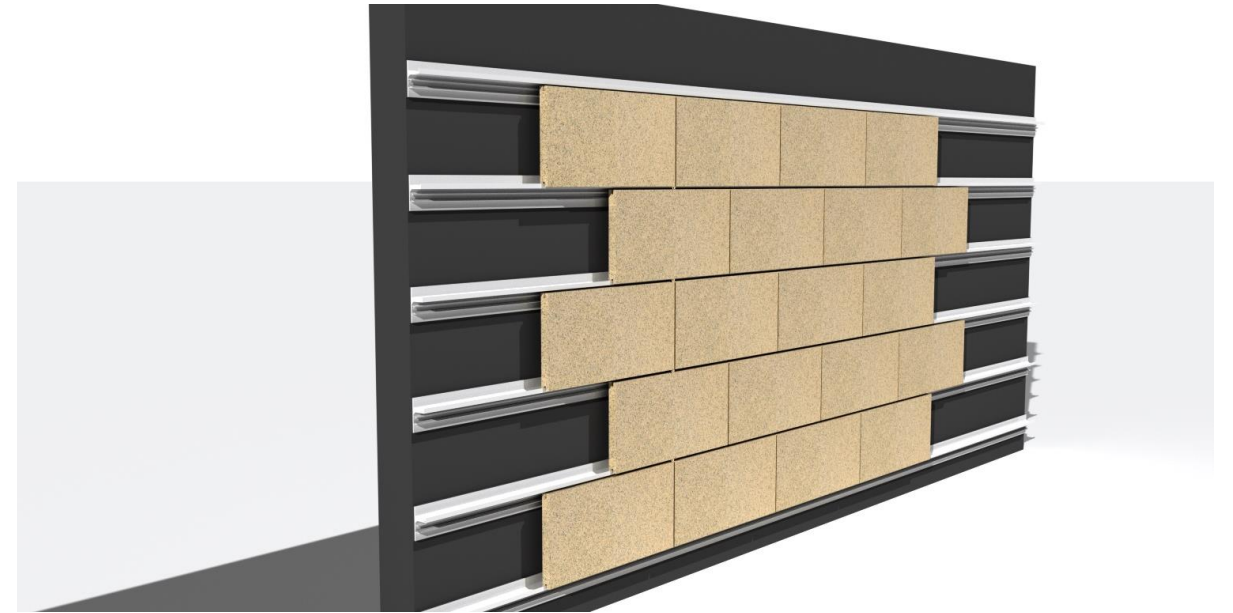
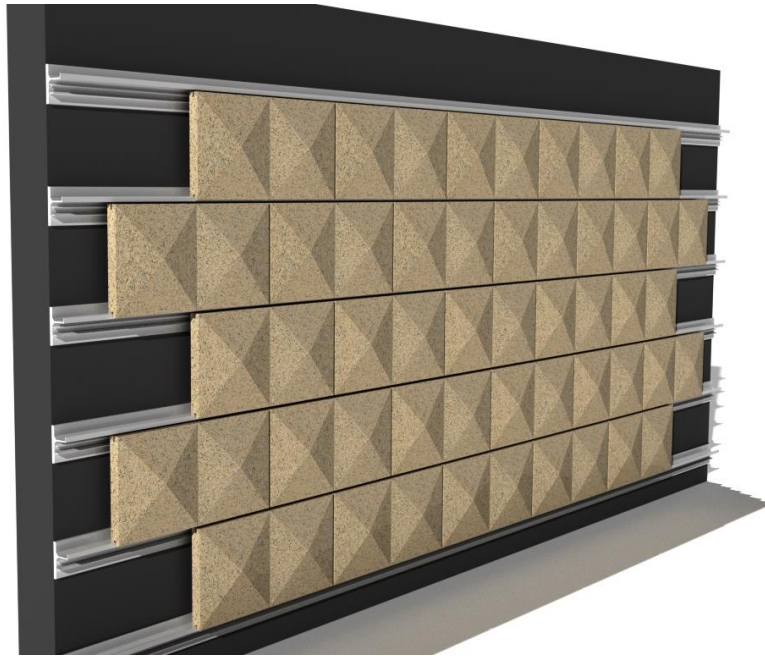


Imagining Facades



Architectural Cast Stone

Design + Architectural Cast Stone + Track System



Architectural Cast Stone + Repetition = Economy

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# Adhered Veneer - Thin Stone



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## Adhered Thin Stone

- Laticrete MVIS \*
- Ardex
- Spec Mix

\* Preferred System



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# Full Bed Depth

## Veneer

### Smooth

4 X 4 X 24

8 X 4 X 24

12 X 4 X 24

16 X 4 X 24

### Split Face

4 X 4 X 24

8 X 4 X 24

12 X 4 X 24

### Rock Face

4 X 4 X 24

8 X 4 X 24

12 X 4 X 24



## Architectural Cast Stone



# Full Bed Depth

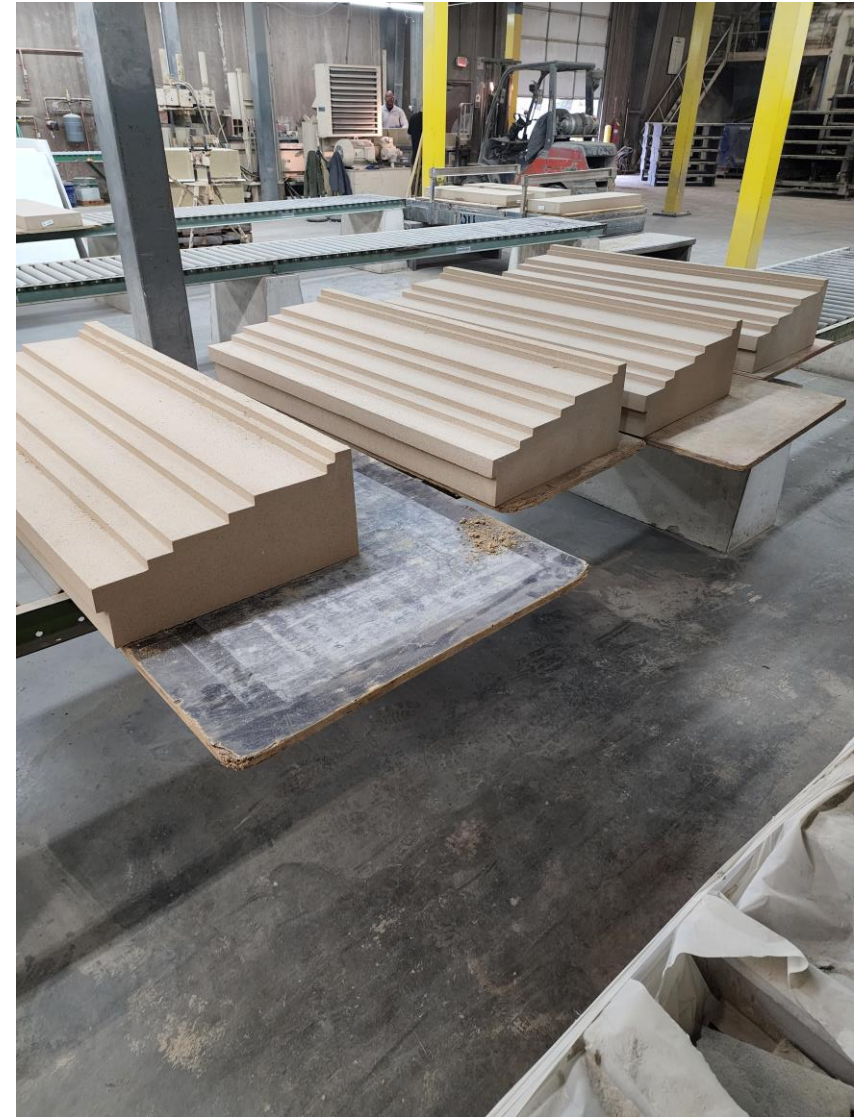


# Architectural Cast Stone





Vapor Curing System – accelerated curing of cast stone. Ensures harder edges and corners, reduced hazing, and consistent colors and high strengths. CO<sub>2</sub> is not vented into the atmosphere but introduced into the chamber and absorbed into the curing product.



## Architectural Cast Stone



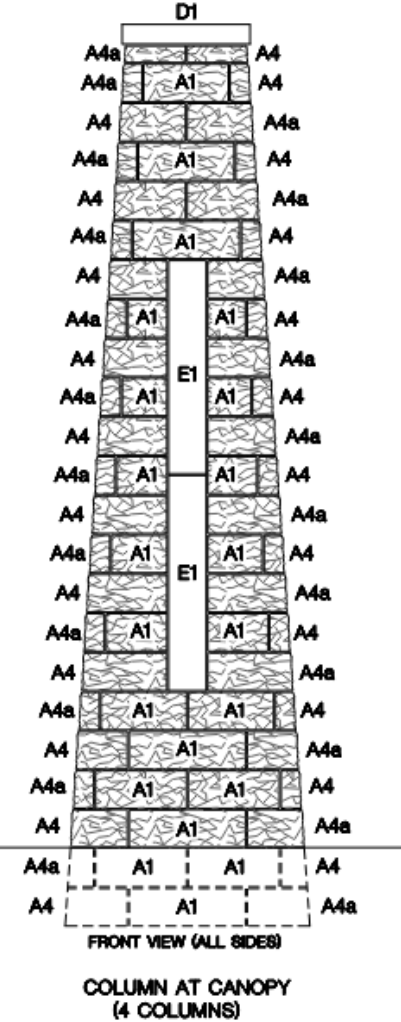
Veneer  
Finishes  
Smooth  
Splitface  
Rockface



**Architectural Cast Stone**



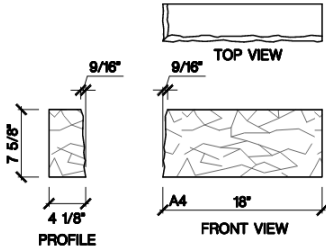
# Full Bed Depth



SYMBOL	QUANTITY	LNFT PER PIECE
A4	210	150
A4a	210	150

(MIRROR OF A4)

VENEER - ROCK FACE - 2-WAY ANGLED END  
\*Note: Mason to cut on site as required.



Architectural Cast Stone



# Full Bed Depth



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# Full Bed Depth



**Architectural Cast Stone**



Full Bed  
Depth



Architectural Cast Stone

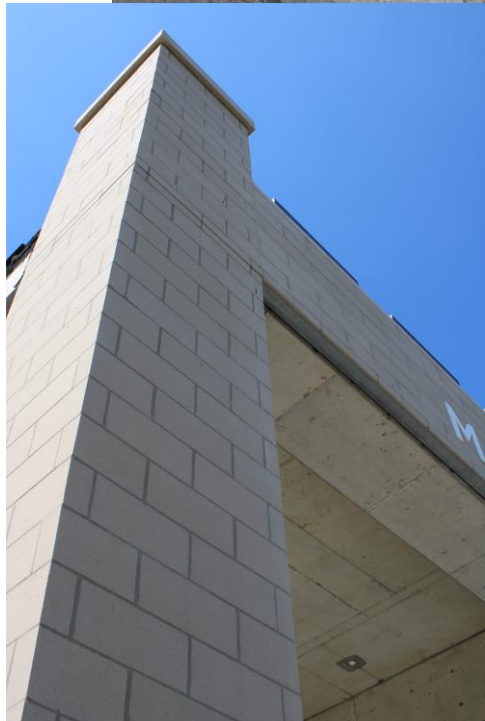
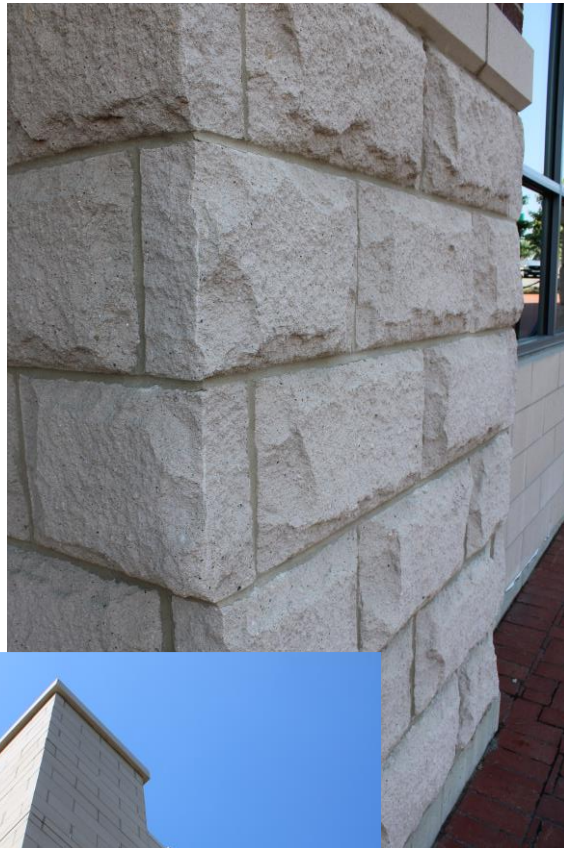




Full Bed  
Depth

Architectural Cast Stone



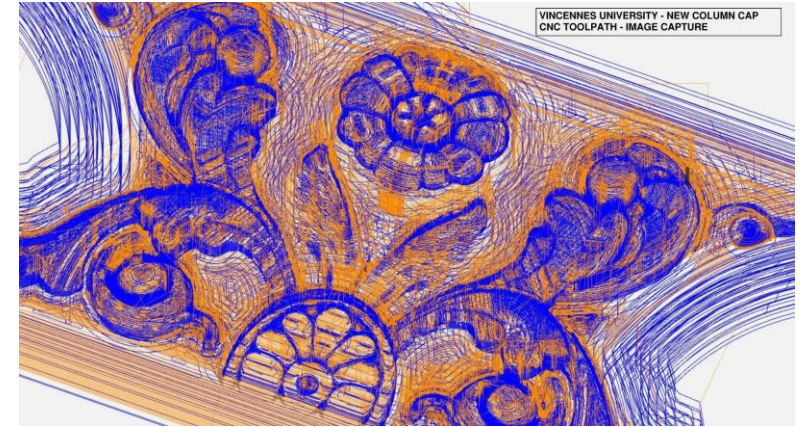


Full Bed Depth

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# Full Bed Depth



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Full Bed Depth

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# Thank you

Craig Lyon  
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