

LENNY MARIN, BUILDING TECHNOLOGY 3, PROF. KURASEK, SPRING 2020

GROUP MEMBERS: JOHNATHAN, DAMIAN

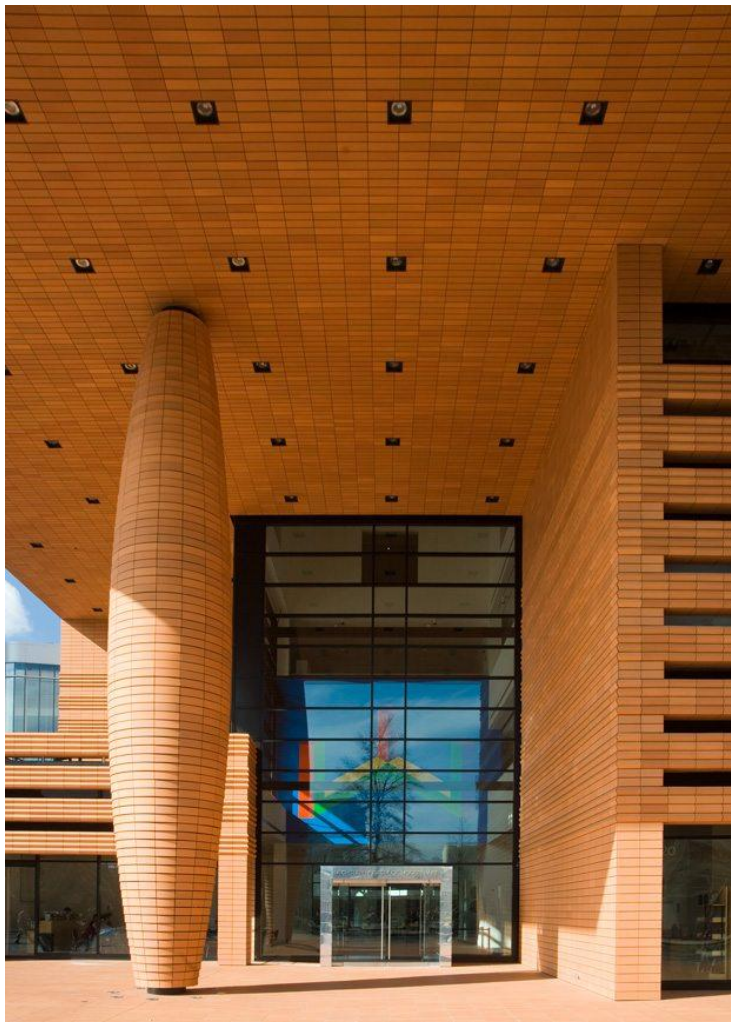
# Bechtler Museum of Modern Art

Location Charlotte, NC

Architect Mario Botta

For this Mario Botta designed building, Boston Valley developed both a custom through-body clay color and several custom profile panels. We provided approximately 30,000 square feet of panels, 6000 square feet of custom-sized pavers, 5,000 square feet of soffit units, as well as a 42' high graduating radius column clad in terra cotta for which we assisted in designing and engineering the structure and attachment system.





# TerraClad® System Diagram

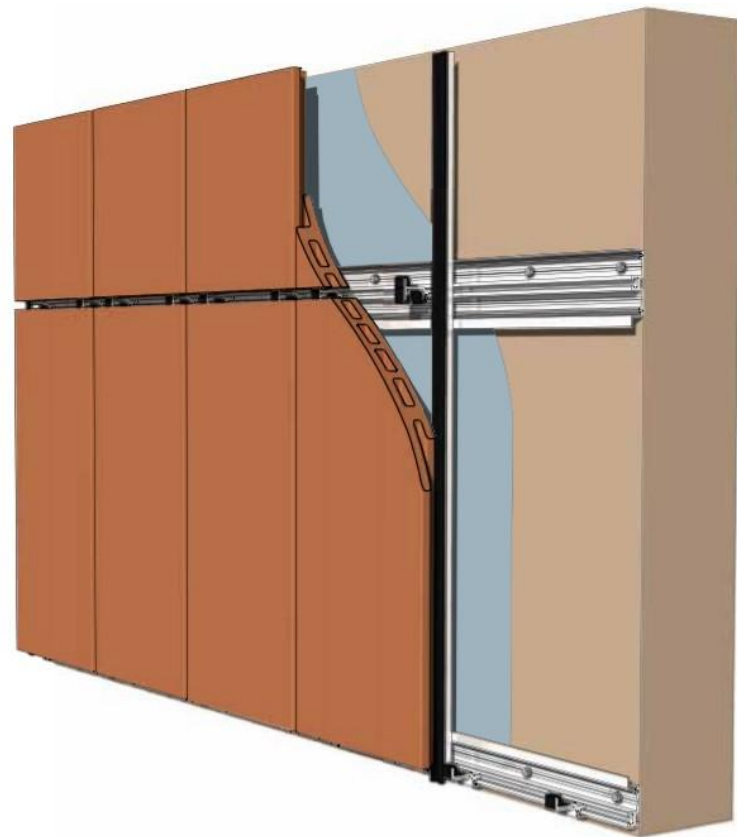
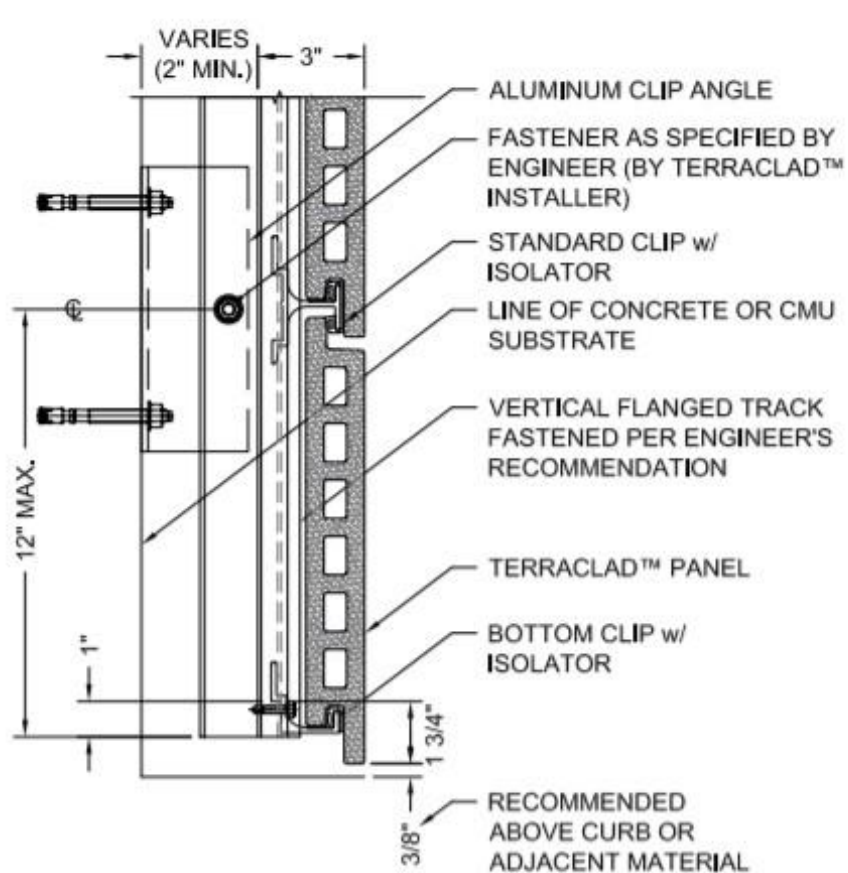
TerraClad® System Diagram attaches to the building using fasteners as specific by engineer (terraclad Installation) and Vertical Flanged Track fastened per engineers recommendation and with bottom clip, top clip, and standard clip

Continuous insulation outboard of the primary wall system increases the thermal performance of the building envelope. insulator on a standard clip, bottom clip, and top clip.

A mortarless system allows for installation in any weather condition and reduces maintenance costs associated with re-pointing.

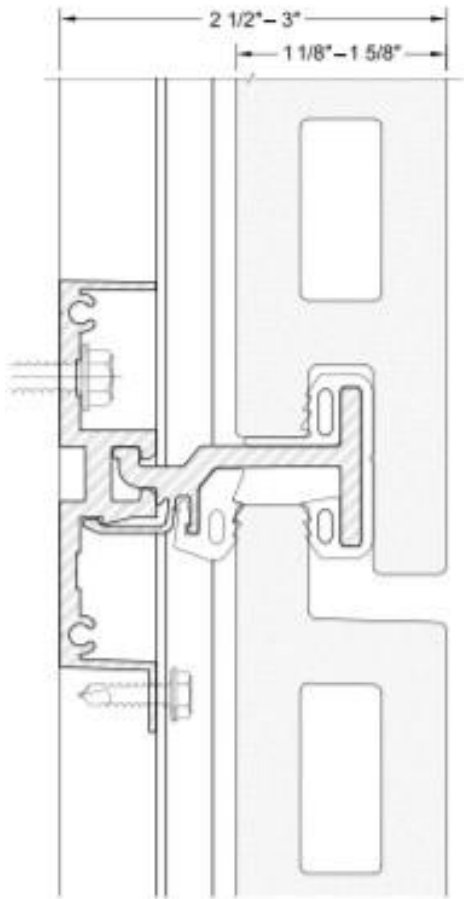
Gaskets and isolators provide a snug fit between panels and the framing system to prevent wind-induced rattle and allow for movement of the aluminum framing system due to thermal expansion.

TerraClad® ceramic rain screen panels are available in two thicknesses, 30mm and 40mm. The 40mm comes in a range of standard heights for both smooth and reveal panels, while the 30mm comes in a range of standard heights for the smooth profile.

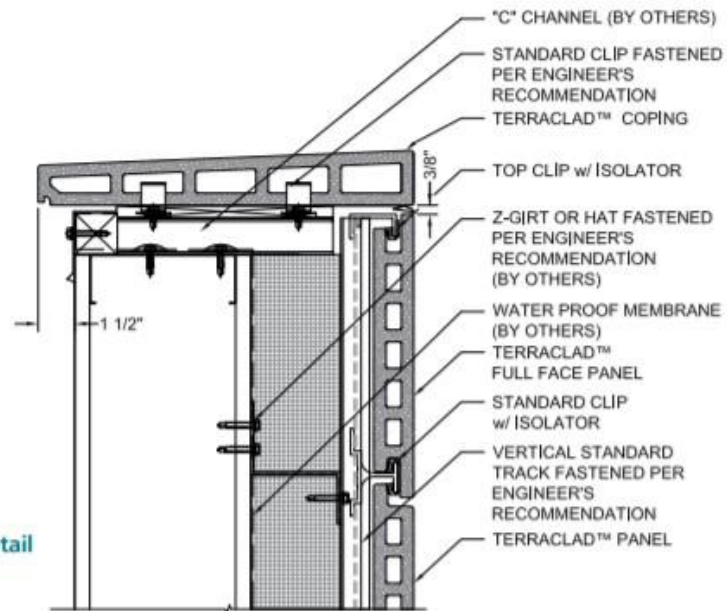


TERRACLAD™ SYSTEM DIAGRAM  
HORIZONTAL TRACK

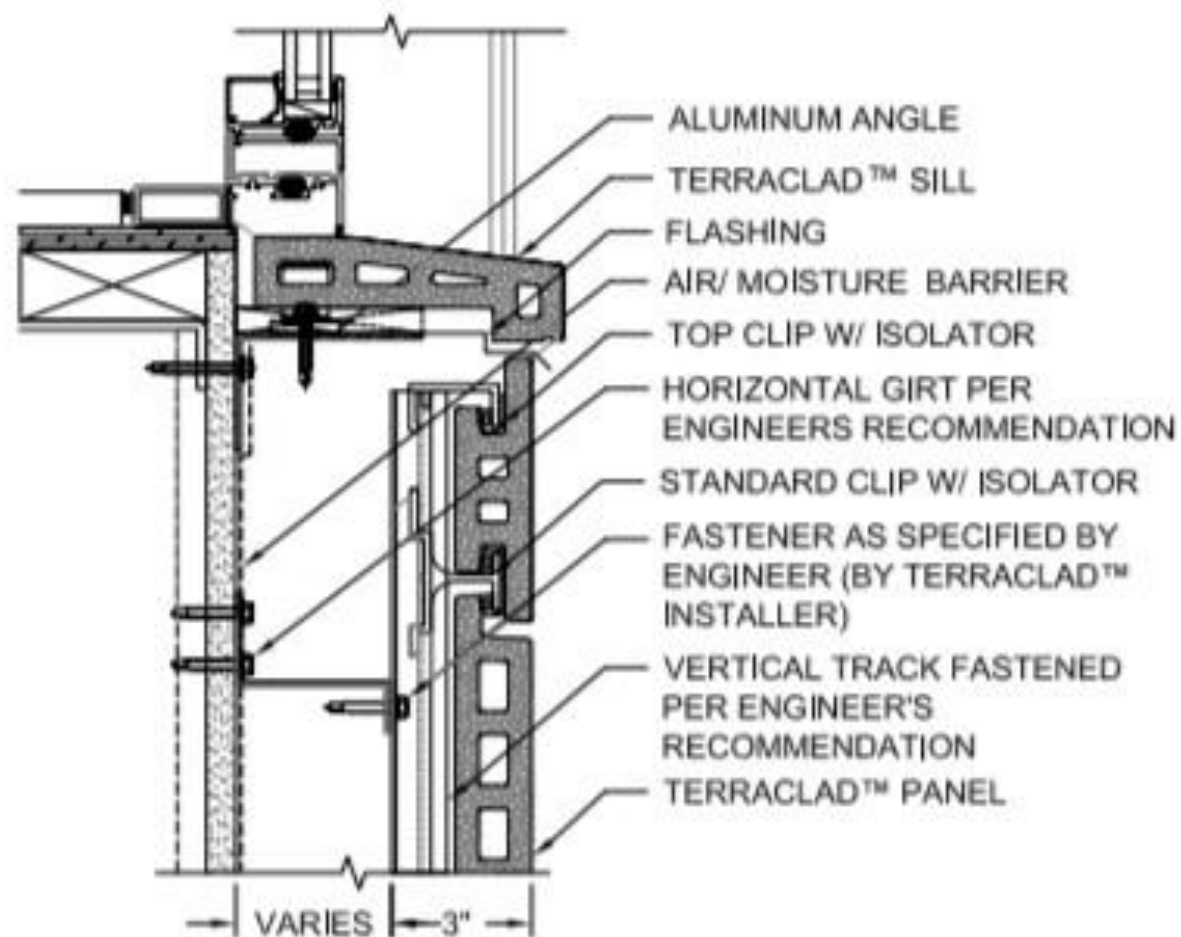
**Section Detail**  
PANEL AT BOTTOM OF FLANGED TRACK



**Section Detail**  
HORIZONTAL TRACK SECTION WITH  
HORIZONTAL PANEL



**Section Detail**  
COPING



**Section Detail**  
TERRACLAD™ SILL

# University of Kansas Medical Center- Health Education Building

**Kansas City, Kansas, USA**

**DESIGN ARCHITECT:** CO Architects, Los Angeles, California

**ARCHITECT OF RECORD:** Helix Architecture + Design, Kansas City, Missouri

**CONTRACTOR/INSTALLER:** Jim Plunkett Inc. (JPI Glass), Kansas City, Missouri

**GENERAL CONTRACTOR:** McCown Gordon Construction LLC, Kansas City, Missouri

With its unique “lantern” box design, the KUMC Health Education Building is both visually appealing and high-performing. A range of curtain wall systems, storefront framing and entrances enhance natural light and illuminate the building at night, enabling students, staff and visitors to view the dynamic world within. In addition, this learning space was designed with a focus on environmental stability.







# 1600 Wall System®1 Curtain Wall

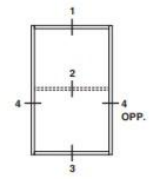
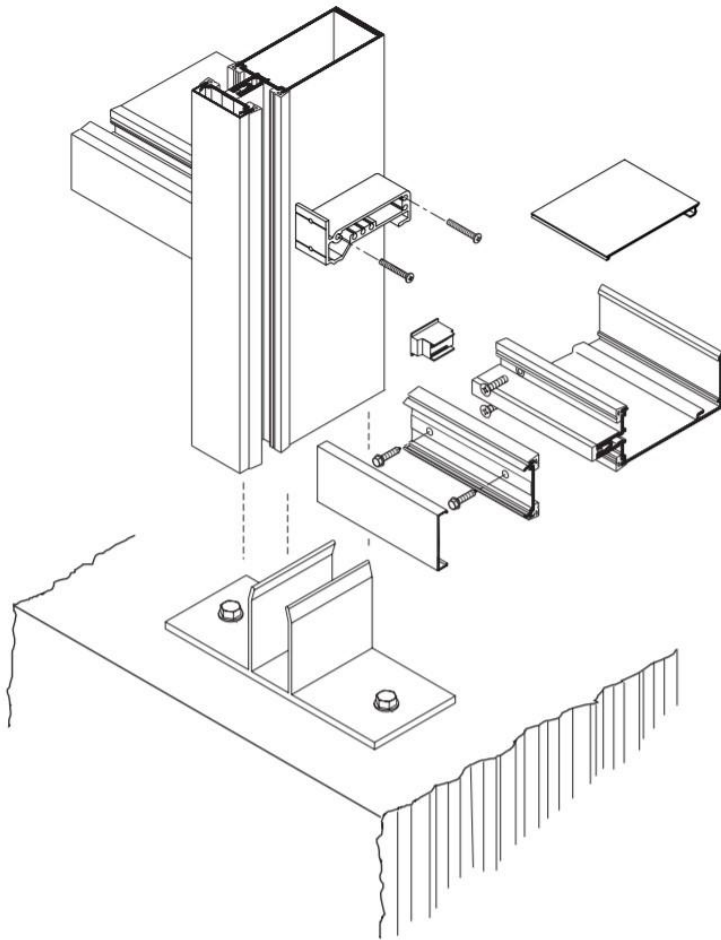
1600 Wall System®1 Curtain Wall attaches to the building using concealed fastener joinery creating a smooth, monolithic appearance in the exterior.

Thermally Broken by means of a continuous 1/4" (6.4) low conductance spacer, we see thermal bridges or thermal breaks in between the casing.

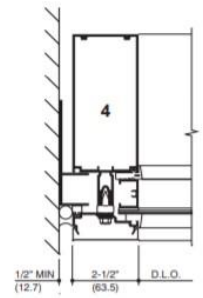
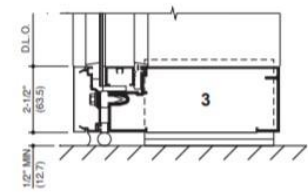
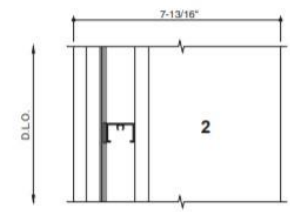
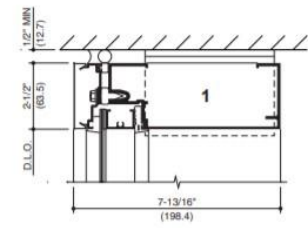
Structural Silicone Sealant provides waterproof the building.

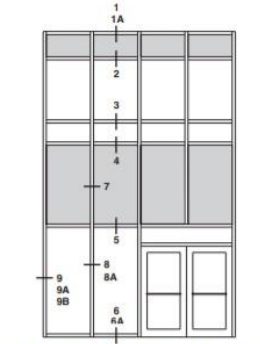
1600 Wall System®1 Curtain Wall Hurricane Resistant Curtain Wall is an impact resistant 2 1/2" sightline curtain wall system that offers an additional line of defense against high winds, heavy rains, and hurricanes. 1600 Wall System®1 is an outside glazed, captured curtain wall.



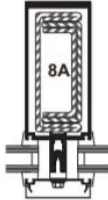
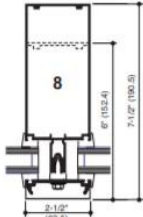
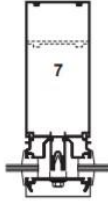


ELEVATION IS NUMBER KEYED TO DETAILS

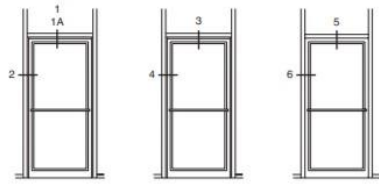
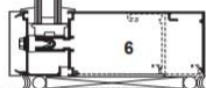
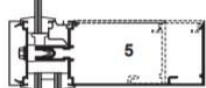
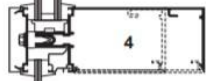
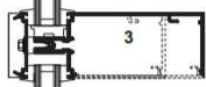
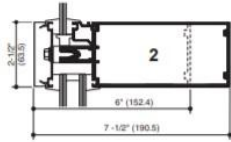
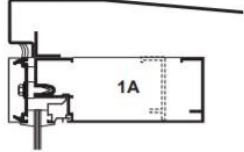
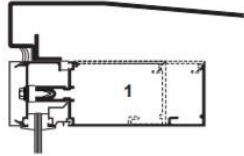
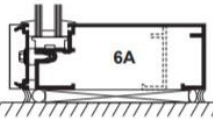




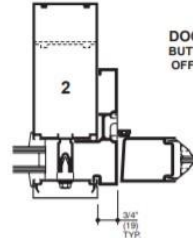
ELEVATION IS NUMBER KEYED TO DETAILS



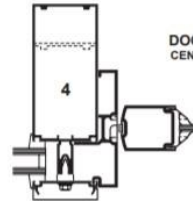
OPTIONAL STEEL REINFORCING AS REQUIRED



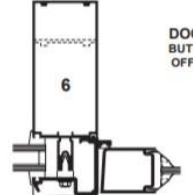
B/H OR O/P C/H B/H OR O/P  
ELEVATION IS NUMBER KEYED TO DETAILS



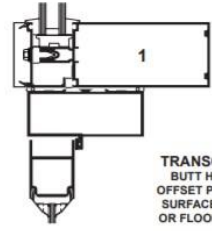
DOOR JAMB BUTT HUNG OR OFFSET PIVOT



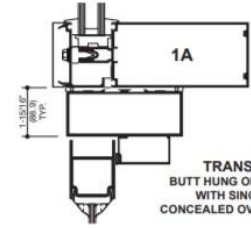
DOOR JAMB CENTER HUNG



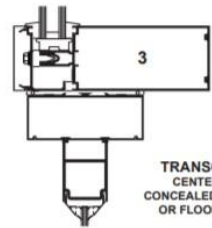
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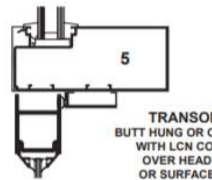
TRANSOM BAR BUTT HUNG OR OFFSET PIVOT WITH SURFACE CLOSER OR FLOOR CLOSER



TRANSOM BAR BUTT HUNG OR OFFSET PIVOT WITH SINGLE ACTING CONCEALED OVERHEAD CLOSER



TRANSOM BAR CENTER HUNG CONCEALED OVERHEAD OR FLOOR CLOSER



TRANSOM BAR BUTT HUNG OR OFFSET PIVOT WITH LCN CONCEALED OVER HEAD CLOSER OR SURFACE CLOSER