

ceramITeX[®]
SINTERED CERAMIC FACADE SYSTEM

by  elemex[®]



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CERAMIC RAINSCREEN FACADE COMPARISON

elemex.com

CERAMIC VS OTHER MATERIALS

Rainscreen Building Material Types

	Sintered Ceramic	Terracotta	GFRC (Glass Fiber Reinforced Concrete)	UHPC (Ultra High Performance Concrete)	Natural Stone (Granite, Marble, Limestone)	
PROS	Weight / SF	4 psf	13 psf	9 psf	7 psf	20 psf
	UV Stability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Impact Resistant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Scratch Resistance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Non-porous (Graffiti or Stain Resistant)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Large Format	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Range of Colors, Patterns & Textures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Easily Removable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Prefabricated Mitered Corners	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Carbon Neutral	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONS	Requires Coating for Graffiti Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Spalling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Efflorescence	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

*See page 5+ for finishes/inspirations.

Key Considerations	Ceramitex® System	Hidden Mechanical Rail	Hidden Mechanical Kerf	Visible Clip	Hidden Chemical	Direct Bond
System						
North American testing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low-maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Concealed attachment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Joint closed to UV, insects, & vermin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unity Attachment Technology - seamless integration with other veneers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
True rain-screen system	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Installation						
Can be installed at temperatures below 5°C (41°F)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Simple site installation (requires just a drill and level)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Panels easily removed for cavity wall access	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Easily installed at soffit applications	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturing						
Manufactured in temperature controlled fabrication facility	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Precision engineering (no cutting on site required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aesthetics						
Large format panels possible	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
True mitered corners available - window jambs, parapets, soffit returns	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Durability						
Ability to Reinforce	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tile uncompromised by back cutting or drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tile will remain on cladding system if broken	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Support						
North American highly consultative field representation & expertise	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
North American technical support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
North American drafting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
North American manufacturing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
North American installation certification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This represents the Elemex evaluation of market landscape based on best available information.
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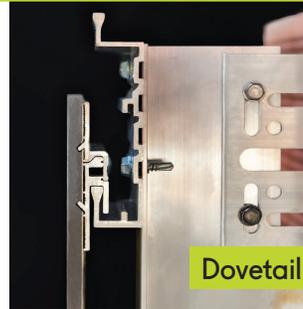
Ceramitex® System

- Slabs affixed/adhered to perimeter frame with structural silicone to create "cassette" panels
- "Cassette" panels mechanically fastened to girts



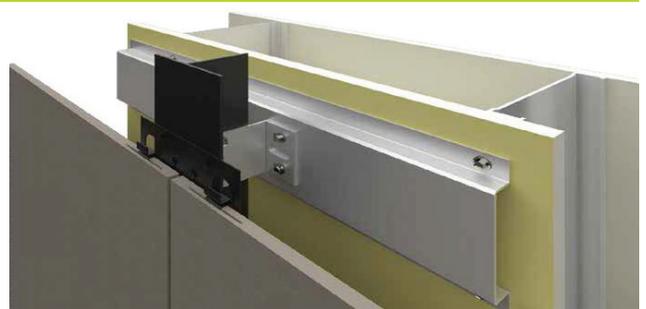
Hidden Mechanical Rail

- Support system designed to connect to the rear side of a sintered ceramic slab
- Horizontal rail attached to slab with a double groove at opposing 45 degree angles or with a keil bolt
- Connected channels are then secured to horizontal aluminum channels on support system



Hidden Mechanical Kerf

- Achieved with either continuous or discrete kerf cut in slabs
- Rails or discs slide into kerfs
- Rails or discs are then mechanically affixed to girts
- Limited to smaller panels
- More susceptible to damage
- Not recommended at soffits



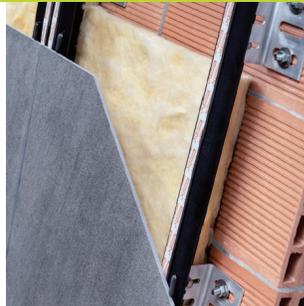
Visible Clip

- Full mechanical system that wraps over the edges of the slabs with exposed clips or clamps
- Any shifting in framing may result in attachment failure



Hidden Chemical

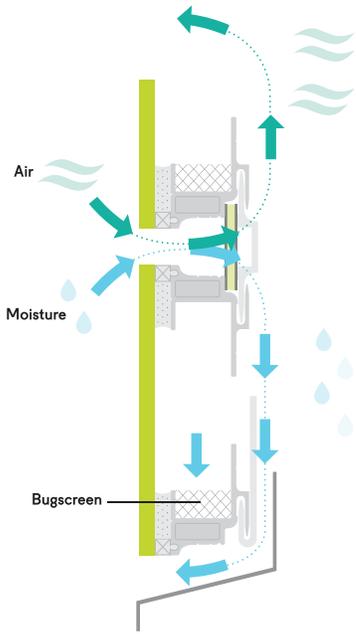
- Ceramic slabs attached using adhesives to create a chemical bond between the slab and the support system
- More commonly, the slabs are adhered to girts using two-sided tape and chemical adhesive
- Temperature sensitive install



Direct Bond

- Ceramic slabs are adhered directly using exterior-grade thin-set
- Susceptible to freeze/thaw failure





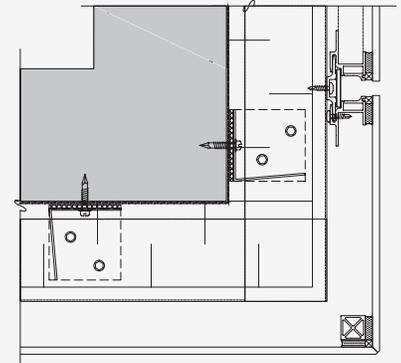
ceramITEX

Rear-Ventilated Rainscreen (RVR)

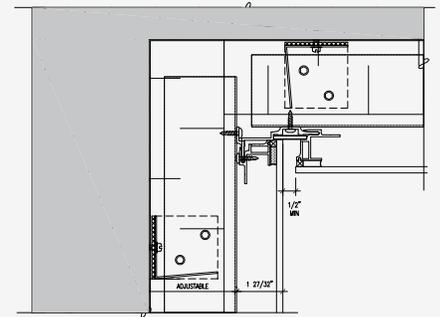
Our Rear-Ventilated Rainscreen (RVR) System breathes freely and prevents water from being forced the joints in through.

Pressure-equalization reduces the pressure difference across the cladding through the use of compartmentalization and back venting. Ingress of incidental water is reduced and residual moisture is returned to the exterior at the drainage plane.

Typical Outside Mitered Corner



Typical Inside Corner



Woodgrain Inspiration



La Boheme



Summer Dala



Winter Dala



Noce



Sabbia

Corten Steel Inspiration



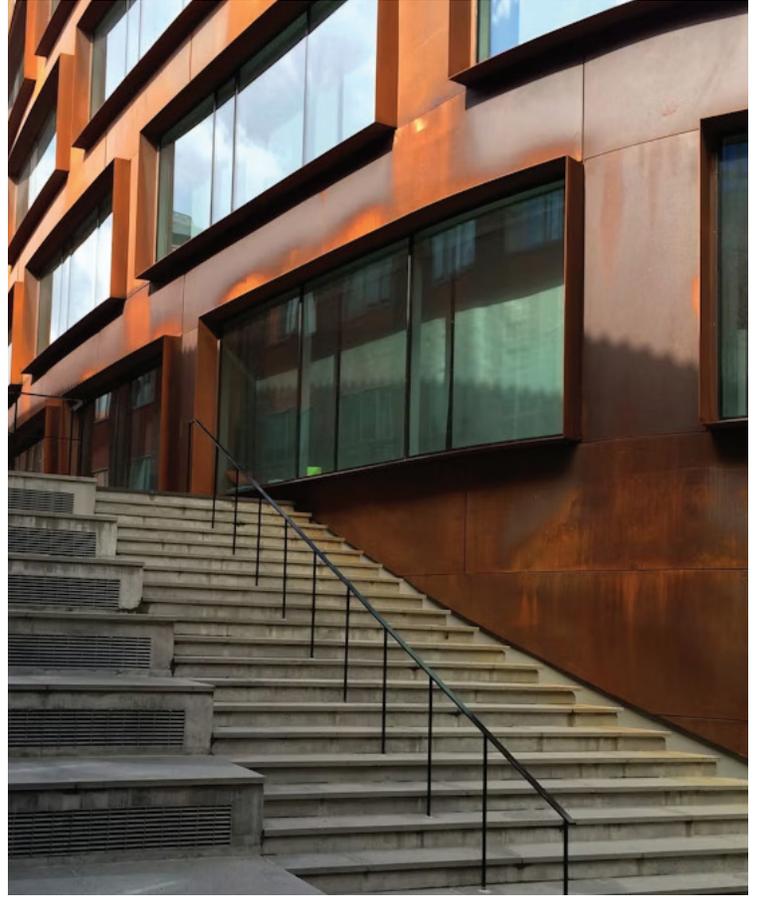
Iron Copper



Iron Corten



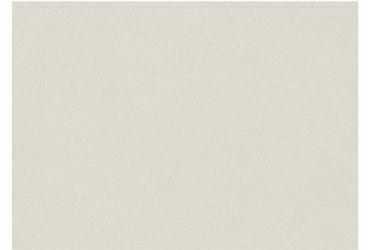
Bruno



Limestone Inspiration



Adia



Aerie



Avorio



Nacre



Nebu

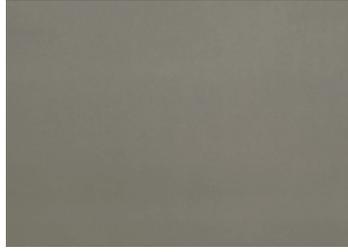


Shilin

Earth Tones Inspiration



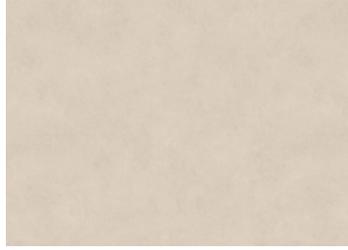
Azahar



Cement



Barro



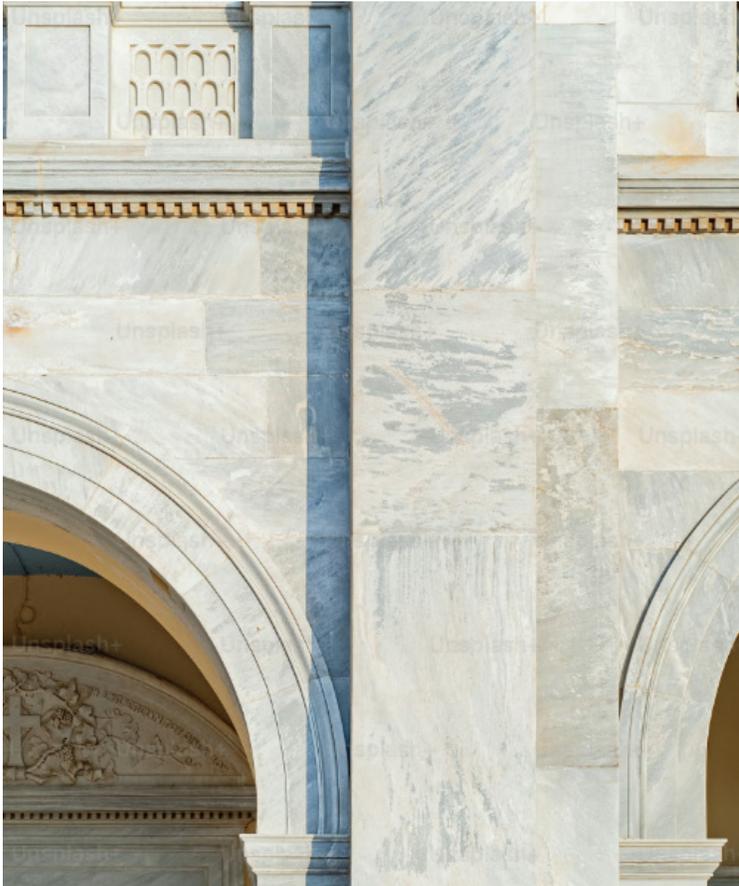
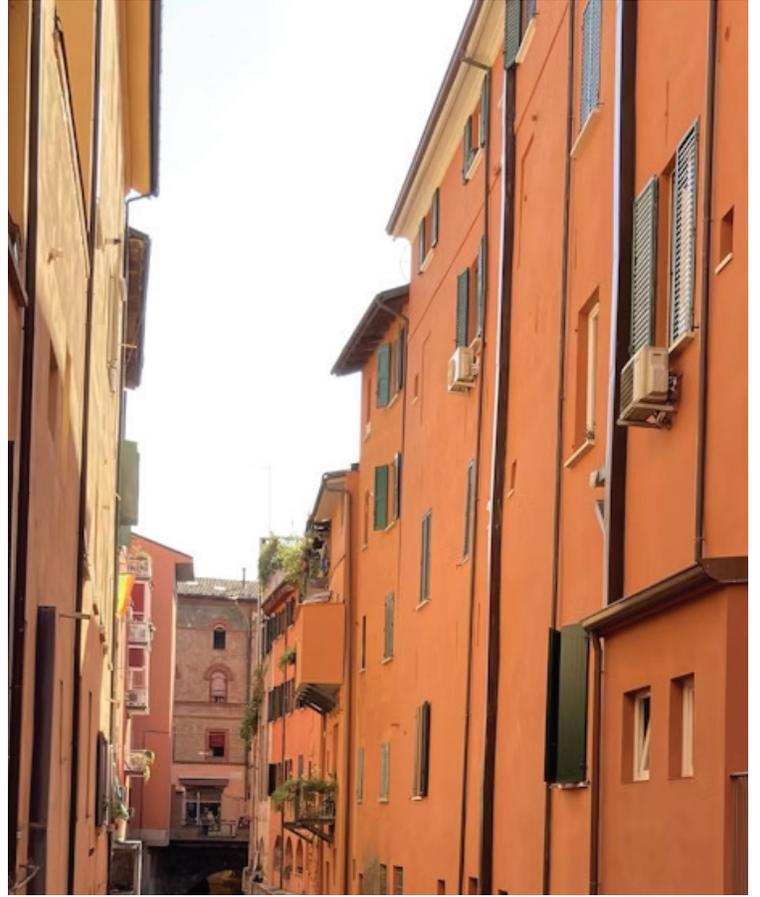
Pietra Di Osso



Terracotta



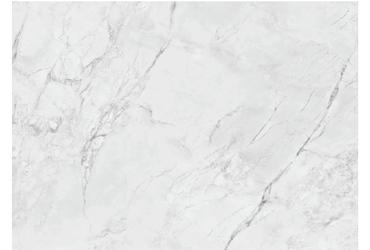
Umber



Marble Inspiration



Abu Dhabi



Alexandra



Arabesque



Calacatta

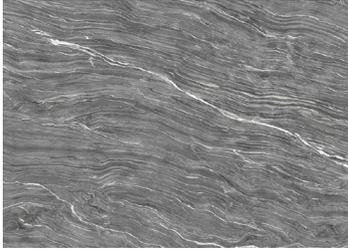


Estuario

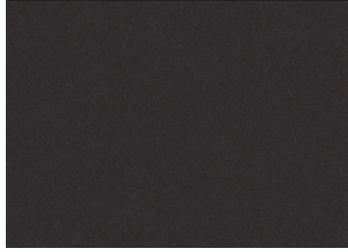


Vigil

Granite Inspiration



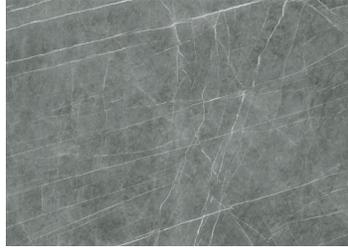
Mar Del Plata



Nero Zimbabwe



Strata Argentum



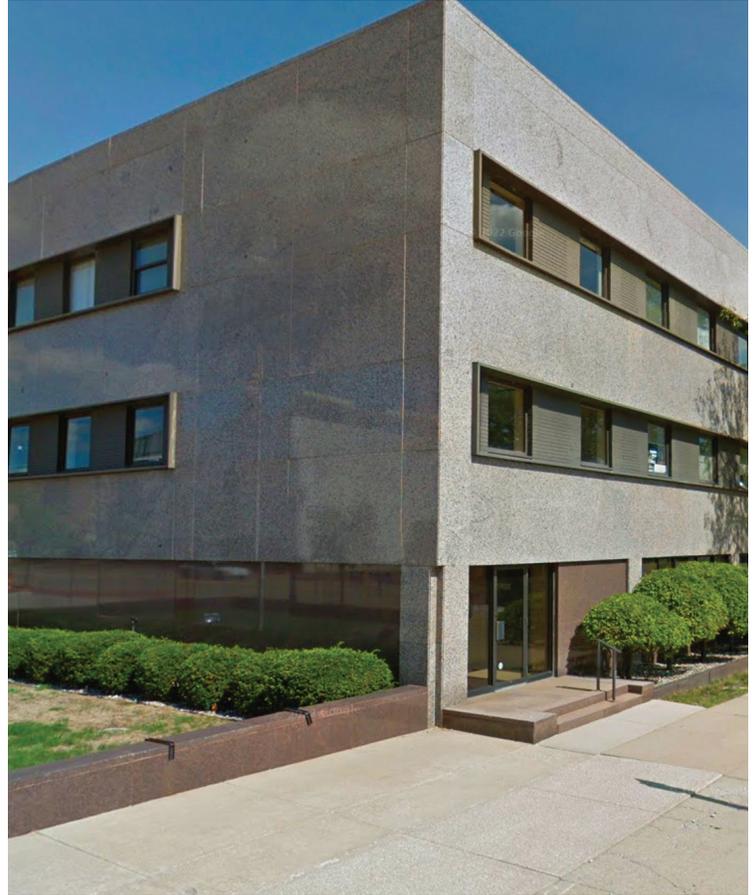
Zaha Stone



Amazonica



Layla



Concrete Inspiration



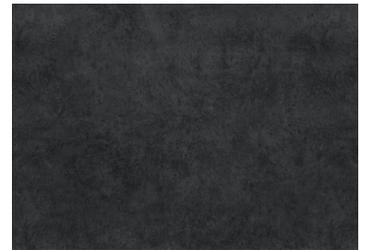
Ceppo



Beton



Grigio



Grafite



Terrazo Ceppo