June 4, 2019

To whom it may concern:



This letter is intended to summarize the technical submittals. It does not contain marketing information.

The factory writes as introduction:

"Corium is a unique brick cladding system that combines the natural beauty of genuine brick with cost effective fast track installation. The Corium system comprises brick slip tiles specially manufactured to fix mechanically to a HPS200 galvanized steel backing section. These profiled lengths are mounted in rows, columns or any direction, onto a support system and the brick tiles are simply clipped in place. The mechanical 'clipping' feature is unique to Corium and ensures a high strength, permanent façade whilst enabling some adjustment of tile position during installation."

The subsystem behind Corium can be whatever you would prefer. FSI offers and understand the various choices in subsystem, thermal and moisture barriers etc. In many drawings, renderings and brochures you will see systems that are often preferred in other parts of the world. It's a simple collaboration to translate that to subsystems more readily available and built here.

The system has been used for over 20 years with zero incidents. All have been vulnerable to freeze thaw conditions. You can see an updated listed of projects in the submittal files.

Telling, the North American venture supporting the system would provide all engineering, shop drawings and professional stamps. **Please review table attached.**

Best regards,

Vai Davres P.Eng

Blair Davies P.Eng, MBA President

Documents and key points.

Document	Key Points	
AAMA 501.1 Water Penetration	• Wall is approx. 10'x10'.	No leakage or visible water: @25 psf
	 Real world construction 	(100 MPH)
AAMA 501.5 Thermal Cycling	 Thermal cycling +140F > 75F > 	No permanent damage due to
ASTM E283-04 Air Leakage	-40F > +75F	0.01 CEM/ft2 @25nsf Passed
ASTM 331-00(2009) Water		No leakage or visible water
Penetration		penetration @25 psf
ASTM E547 Water Penetration		No leakage or visible water
		penetration @25 psf
ASTM 330-02(2010) Structural Performance Air Pressure Differences	Dead loads applied as per test	No damage of any part of system
r enormance, Air r ressure Dirierences	• Wall is approx. 8'x10'.	positive pressures exceeding 90psf
	Real world construction	(nearly 200mph)
	would need to be translated to	
	other systems	
	 Load cycling from 0 > 60 psf, - 	
	60 psf > +90 psf > -90 psf	
ASIM C67 Brick Water Absorption,	See test	ASTM C67 Strength, minimum is
compressive Strength, Treeze maw		5000 psi, conum 6700 psi average
		Water absorption max allowed 17 %,
		Corium 9.8% after 5 hour boil
		Saturation coefficient average 67%
		max allowed 78%
BCRL BM1:1993 standard developed	Procedure based on British	No damage of brick, mortar or slips
by CERAM	standard BS3921:1985	appeared
Freeze Thaw Testing for Brick	100 cycles	
	Brick and mortar joint tested,	
	Tested after immersion in water	
	for 7 days	
	 Cycle -15C and +25C 	
	 Inspected at 10, 50 and 100 	
	cycles	
Expectation of Performance of	Analysis of possible failure	HPS 200 used in protecting
Colorcoat HPS200 Ralls in the	mechanisms and evaluation of	metal cladding and rooting for
Dr Graeme Peacock of Corus UK Ltd.	rail.	2005)
Supplier of Colorcoat HPS200,	 Explanation of product's history. 	 If there was a risk its UV, and
Confidex and Galvalloy	Explanation of the coating	coatings and rail don't see UV
	structure.	Exposed it has 30 year
	Explanation of galvanization is	guarantee eg rooting
	superior to commodity gaiv	 Expectation of coating, galvanization and steel system is
	5000.	in excess of 60 years.
		Does not account for
		redundancy in structural system.
Technical Bulletin TAS COR 110	LEED points review	See document
wimias	A complete review of use of the	 As much about explanation as
	of 2001	compliance.