

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB	
PROJECT NAME	
8274 BIG BEND BLVD	
ADDRESS	
NUMBER	
WEBSTER UNIVERSITY	
OWNER	
CANNON DESIGN	
ARCHITECT / ENGINEER	
Devin Gates	
SUBMITTED BY	
0784460-004	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
	0784460
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
	CRITICAL

ITEM BEING SUBMITTED (check only one)

- | | | |
|--|--|--|
| ☒ Shop Drawings | ☐ Certification / | ☐ Coordination Drawing |
| ☐ Samples | ☐ Qualifications | ☐ Calculations |
| (_____ copies) | ☐ Record Documents | ☐ Schedules |
| ☐ LEED Submittal | ☐ Product Data | ☐ O&M Manuals |
| ☐ Other _____ | | |

ITEM BEING SUBMITTED FOR (check only one)

- ☒ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

Product data and engineering judgement for firesafing at dynamic conditions only.

CONTRACTOR / CM CERTIFICATION (SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:

Devin D. Gates

Devin Gates	3/30/17
REVIEWED BY	DATE

To be completed by Reviewer

07 8446-004
CANNON DESIGN SUBMITTAL NUMBER
3/30/17
RECEIVED DATE

- ☐ A. No Exceptions Taken
No further review of submittal is required.
- ☐ B. Make Corrections Noted
Incorporate corrections in work; resubmission is not required.
- ☐ C. Revise and Resubmit
Revise as noted, and resubmit for review.
- ☐ D. Rejected
Submittal is not in compliance with Contract Documents; provide new submittal.
- ☒ E. For Record / Information Only
Submittal was reviewed for Record / Information purposes only.
- ☐ F. Not Required for Review
Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

SEE ATTACHED COMMENTS.

Kelvin Patel	04/03/17
REVIEWED BY	DATE

Digitally signed by Kelvin Patel
DN: C=US, E=kpatel@cannondesign.com, O=Cannon Design,
OU=Architect, CN=Kelvin Patel
Date: 2017.04.03 13:33:17 -0500

A/E COMMENTS:

This engineering judgment (EJ) does not appear to include the back-pan and insulation mounted to and protecting the curtain wall spandrel. The fire resistive joint system EJ must be comprehensive including both the connection to the slab and the fire protection at the spandrel. The engineering judgment should be signed by a fire protection engineer, the one submitted does not appear to be signed by a fire protection engineer.

Additionally, the fire protection engineer should be considering the continuity of the fire resistive joint as it terminates and transitions to joints beyond this application area. Compatibility with adjacent systems and products will need to be verified by the construction management team as well as transition details should be provided as part of the engineering judgment.

Finally, as referenced in the engineering judgment itself, the final engineering judgment documents shall be approved by the local Authorities Having Jurisdiction (AHJ) and a record of this approval must be submitted for record as part of the submittal process.

We believe the AHJ may have issues approving the provided engineering judgment for reasons (not limited to) those listed below;

- 1.The EJ should be written and signed by a fire protection engineer.
- 2.The EJ should address the continuity of the protection between the EJ designated system and the adjacent systems.
- 3.The compatibility of components or products in EJ system and adjacent systems is addressed at transitions.
- 4.The EJ should address transition details between designated system it transitions.
- 5.The submitted EJ indicates it does not address the structural integrity of the joint in a fire. We believe this is a key performance requirement of interest to an AHJ.....that the joint will perform in a fire.



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ENGINEERING JUDGMENT

March 24, 2017

Project: Webster University – Interdisciplinary Science Building
Contractor: NGG Ltd, Inc.
Application: UL 2079 Fire Rated Expansion Joint System
Assembly #1: Non-UL 2079 Wall Assembly
Assembly #2: UL 2079 2 Hour Concrete Slab
Requested Rating: UL 2079 2 Hour Rating
Product: Willseal FireStop FR-2H 3" x 4" +/-50% & Willseal Fire Stop FR-2H 4" x 4" +/-50%
Quantity: TBD
Special Condition: No rated systems are listed

Application Details:

Based on this engineering judgment the safing system incorporated of a UL 2079 2 Hour Concrete slab, Curtain wall system and Willseal FireStop FR-2H 3" x 4" or Willseal Fire Stop FR-2H 4" x 4" will suffice the applicable rating requirements for the Webster University - Interdisciplinary Science Building.

This system as designed can be utilized in applications where 3/4" dynamic vertical movement is anticipated.

Note: This engineering judgment only addresses the application in the corresponding detail and does not address any other application on the project.

Note: Willseal or its' representatives are not responsible for damage to the expansion joint or rated assemblies over the life and use of the building. The joint design does not address the structural integrity of the rated assemblies nor any consequential damage to the joint or assemblies in a fire scenario.

Based on: UL Rating FF-D-1175

This engineering judgment (EJ) is based exclusively on data obtained in testing at Underwriters Laboratory in accordance with UL 2079 and must be applied as described as above. Modifications of any of the parameters of this EJ shall render this judgment null and void.

All renderings within this EJ are ultimately subject to the approval of the local Authorities having jurisdiction in fire-rating requirements and must be consulted before installation to ensure specific substrates and rated assemblies are detailed and constructed to local requirements and codes.

Engineering Judgment Prepared by:

Date: 03/24/2017

Brian J. Iske
President