ROXUL CAVITYROCK®

Cavity Wall and Rainscreen Insulation

Product Description & Application

ROXUL CAVITYROCK® is a semi-rigid, mineral wool insulation board designed for exterior cavity wall and rainscreen applications.

	Performance	Test Standard
Compliance	Mineral Fiber Block and Board Thermal Insulation - Type IVB Compliant Mineral Fiber Thermal Insulation for Buildings, Type 1 Compliant MEA Approval, New York City Approval	ASTM C612 CAN/ULC S702 236 - 05 - M
Reaction to Fire	Flame spread index = 0 ; Smoke developed index = 0 Flame spread index = 0 ; Smoke developed index = 0 Determination of Non Combustibility of Building Materials - Non Combustible Behaviour of materials at 750°C - Non Combustible	ASTM E84 (UL 723) CAN/ULC S102 CAN/ULC S114 ASTM E136
Density (thickness ≤ 2")	Monolithic Density of 4.4 lbs/ft³ (70 kgs/m³)	ASTM C303
Density (thickness ≥ 2.5")	Dual Density - 6.2 lbs/ft³ (100 kgs/m³) outer layer and 4.1 lbs/ft³ (65 kgs/m³) inner layer	ASTM C303
Corrosion Resistance	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel - Passed Corrosion of Steel - Passed	ASTM C795 ASTM C665
Thermal Resistance (thickness ≤ 2")	R-Value / inch @ 75°F — 4.2 hr.ft2.F/Btu RSI value / 25.4mm @ 24°C — 0.74 m2K/W	ASTM C518 (C177)
Thermal Resistance (thickness ≥ 2.5")	R-Value / inch @ 75°F — 4.3 hr.ft2.F/Btu RSI value / 25.4mm @ 24°C — 0.76 m2K/W	ASTM C518 (C177)
Reaction to Moisture	Moisture Sorption - 0.07% Water Vapor Transmission, Desiccant Method - 1555ng/Pa.s.m2 (27 perm) Determination of Fungi Resistance - Passed	ASTM C1104 ASTM E96 ASTM C1338
Thickness Dimensions	1" (25.4mm) to 6" (152.4mm) offerings 24"x48" (610mm x 1219mm) and 16"x48" (406mm x 1219mm)	

Acoustical Performance — ASTM C423

Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000Hz	4000 Hz	NRC
1.5"	1.19	0.55	1.03	1.06	1.02	1.01	0.9
2"	0.26	0.71	1.14	1.09	1.04	1.03	1
3"	0.72	0.93	0.88	0.84	0.9	0.97	0.9

Issued 04-01-16
Supersedes 12-16-15

NOTE: *Mast Format 1995 Edition **Master Format 2004 Edition. As ROXUL Inc has no control over installation design and workmanship, accessory materials or application conditions, ROXUL Inc. does not warranty the performance or results of any installation containing ROXUL Inc's products. ROXUL Inc's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

ROXUL INC
8024 Esquesing Line
Milton, On. L9T 6W3
tel: 800-265-6878
fax: 800-991-0110
www.roxul.com

ROXUL®
The Better Insulation™

Technical Product Information

ROXUL CavityRock DD

BOARD INSULATION 07210*
BOARD INSULATION 07 21 13**
CAVITY WALL UNIT MASONRY
04 27 23**

General Product Information:

ROXUL® products are mineral wool fibre insulations made from basalt rock and slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL mineral wool is a water repellent yet vapour permeable material.

Description & Common Applications:

CAVITYROCK® DD is a non-combustible, lightweight and water repellent, rigid insulation board with a rigid upper surface for durability and enhanced strength, intended for use in cavity wall applications. Specifically engineered for this application, CAVITYROCK DD's low moisture sorption enables it to maintain R-value and its mineral fibre structure allows for effective drainage of water which penetrates the exterior wall. In addition, because CAVITYROCK DD is a non-combustible insulation, installation of a fire stop is not required. The product is compatible with most air/vapour barrier systems, adhesives and wall ties.

Compliance and Performance:

CAN/ULC-S702	Mineral Fibre Thermal Insulation for Buildings	Type 1, Complies
ASTM C 612	Mineral Fibre Block and Board Thermal Insulation	Type IVB, Complies

Fire Performance:

ASTM E 136	Behaviour of Materials at 750ºC (1382ºF)	Non-Combustible
CAN/ULC-S114	Test for Non-Combustibility	Non-Combustible
ASTM E 84 (UL 723)	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0
CAN/ULC-S102	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0

Water Vapour Permeance:

ASTM E 96	Water Vapour Transmission, Desiccant Method	1555 ng/Pa.s.m^2 (27 perm)

Moisture Resistance:

ASTM C 1104	Moisture Sorption	0.07 %

Thermal Resistance:

ASTM C 518 (C 177)	R-value/inch @ 75°F	4.3 hr.ft².F/Btu***
	RSI value/25.4 mm @ 24°C	0.76 m²K/W

Fungi Resistance:

ASTM C 1338	Mold Growth	Zero Growth

Corrosive Resistance:

ASTM C 665	Corrosiveness to Steel	Pass
ASTM C 795 ****	Stainless Steel Stress Corrosion Specification as per Test Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C)	Conforms

*MASTER FORMAT 1995 EDITION **MASTER FORMAT 2004 EDITION
*** at the time of manufacturing

ROXUL CavityRock DD

Acoustical Performance

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**NRC**
3.0”	0.72	0.93	0.88	0.84	0.90	0.97	0.90

Density:

ASTM C 612-00 – Actual

Outer Layer	6.2 lb/ft^3	100 kg/m^3
Inner Layer	4.1 lb/ft^3	65 kg/m^3

Dimensions:

16” (width) x 48” (length)
406 mm (width) x 1219 mm (length)

24” (width) x 48” (length)
610 mm (width) x 1219 mm (length)

Thickness:

Available in 2.5” to 5”.
Additional sizes available in ½” increments.

For additional sizes, please contact ROXUL by phone at 1-800-265-6878.

Key Application Qualifiers:

- Non-combustible
- Low moisture sorption
- Non-corrosive
- Chemically inert
- Does not rot or sustain vermin
- Does not promote growth of fungi or mildew
- CFC and HCFC free product and process
- Made from natural & recycled materials

Other ROXUL Products:

Please consult ROXUL for all your insulation needs. We have an extensive range of products for all applications from pipe insulation to commercial products to residential batts. ROXUL invites all inquiries and will act promptly to service all of your requirements.

**** “Provisions for lot testing may be required, consult manufacturer.”

Note:
As ROXUL Inc. has no control over installation design and workmanship, accessory materials or application conditions, ROXUL Inc. does not warranty the performance or results of any installation containing ROXUL Inc’s. products. ROXUL Inc’s. overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

ROXUL INC. **Milton, Ontario Tel: 905-878-8474** **Fax: 905-878-8077**
www.roxul.com **Tel: 1-800-265-6878** **Fax: 1-800-991-0110**

Revised: July 06, 2013
Supersedes: March 11, 2013

From:	Gates, Devin
To:	Voypick, Joe
Subject:	FW: Webster - cavity rock
Date:	Monday, November 21, 2016 4:54:31 PM
Attachments:	image004.png image005.png image006.png roxul-cavityrock-dd-submittal.pdf FW ASTM E 136 Compliance.msg CAVITYROCK_TECHDATASHEET_EN.PDF

Joe,

Please submit under section 074646 and attach this email (minus this part) as well as the two attachments.

DEVIN GATES
SENIOR PROJECT ENGINEER

Cell: 314-348-8828
Main: 636-561-9500

- - - - - -
77 Westport Plaza, Suite 250
St. Louis, MO 63146

PARIC.COM

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This e-mail message and any files transmitted with it may be CONFIDENTIAL and are intended for the addressee only. Any unauthorized use, dissemination of the information, or copying of this message is prohibited. If you are not the intended addressee, please notify the sender immediately and delete this message.

From: Patel, Kelvin [mailto:kpatel@CANNONDESIGN.COM]
Sent: Friday, November 18, 2016 1:17 PM
To: Gates, Devin
Cc: Kathy Williams (kathy@kwastl.com); Scott Klingsick; Grossman, Lynn
Subject: FW: Webster - cavity rock

Devin,

Please re-submit the following product via submittal, so we can approve it formally.

Thanks,

Kelvin Patel, CDT, LEED AP BD+C
Associate

CANNONDESIGN
T 314.425.8756

From: Scott Klingsick [mailto:scott@kwastl.com]
Sent: Friday, November 18, 2016 1:05 PM
To: Patel, Kelvin <kpatel@CANNONDESIGN.COM>
Subject: FW: Webster - cavity rock

Kelvin,

It is KWA's recommendation that the Roxul Cavityrock DD be used at the Metal Panels wall assembly (WA-L1 & WA-L3) and Fiber Cement Panels (WA-L2). The Dual Density of 6.2 and 4.1 lbs/ft cubed will be acceptable for this project. Thanks

Scott Klingsick, LEED Green Associate
Project Manager
9721 Litzsinger Rd.
St. Louis, MO 63124
(p) 314.962.2560 (f) 314.962.4057
scott@kwastl.com

KWA Architects

You have requested Kathy Williams and Associates, LLC dba KWA to supply electronic media containing plans for use by your company. Due to the potential that the information set forth on the electronic media can be modified, unintentionally or otherwise, the use of such electronic media will be at your company's sole risk and without any liability, risk or exposure to KWA LLC (Kathy Williams & Associates). You will not be automatically updated on revisions and/or modifications to the attached. **CONFIDENTIAL** The information, data and drawings embodied in this document are strictly confidential and are supplied with the understanding that they will not be disclosed to third parties without the prior written consent of the Owner.

From: Patel, Kelvin [mailto:kpatel@CANNONDESIGN.COM]
Sent: Friday, November 18, 2016 11:24 AM
To: Scott Klingsick
Cc: Grossman, Lynn; Kathy Williams
Subject: RE: Webster - cavity rock

Scott,

If this is acceptable to KWA, then we can email to Paric & issue formally via ASI.

Let me know. Send me a separate formal email which I can forward to Paric with necessary attachments.

Thanks,

Kelvin Patel, CDT, LEED AP BD+C
Associate
CANNONDESIGN
T 314.425.8756

From: Scott Klingsick [mailto:scott@kwastl.com]
Sent: Wednesday, October 26, 2016 7:59 AM
To: Patel, Kelvin <kpatel@CANNONDESIGN.COM>
Subject: FW: Webster - cavity rock

Kelvin,

Devin is asking me to send him the information on the Cavity rock. I don't know if we need to issue this as a DSI or if it can be emailed to Paric. The attached Cavityrock DD meets all the specification requirements except the 8 lb/cu. ft. requirement. In the attached email Roxul recommends the use of the CavityRock product for our application. The Cavityrock DD product comes in 5" thickness. Please let me know how you would like to issue this. Thanks

Scott Klingsick, LEED Green Associate
Project Manager
9721 Litzsinger Rd.
St. Louis, MO 63124
(p) 314.962.2560 (f) 314.962.4057
scott@kwastl.com

KWA Architects

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From: Gates, Devin [mailto:ddgates@paric.com]
Sent: Tuesday, October 25, 2016 4:42 PM
To: Scott Klingsick
Subject: Webster - cavity rock

Scott,

Just a reminder, could you please provide the info for the cavity rock as discussed in yesterday's meeting? Kuenz submitted the roxul cavityrock which was approved but have not been able to find a cavityrock product that meets the 8 lb/cf spec.

Thanks for the help,

DEVIN GATES
SENIOR PROJECT ENGINEER

Cell: 314-348-8828
Main: 636-561-9500

- - - - - -
77 Westport Plaza, Suite 250
St. Louis, MO 63146

PARIC.COM

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CANNONDESIGN

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

Joe Voypick
SUBMITTED BY

074646-004
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

074646
SPECIFICATION SECTION / PARAGRAPH

Kuenz Heating and Sheet
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

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

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

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

PARIC

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

Joe Voypick
REVIEWED BY

8/31/16
DATE

To be completed by Reviewer

07 4646-004
CANNON DESIGN SUBMITTAL NUMBER

9/1/16
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 Substitution Request 17 for product data.

REVIEWED BY

9/14/16
DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0335

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 11/27/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Cavity Rock

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		074646-007	1		11/27/2016	Cavity Rock	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

ROXUL CAVITYROCK®

Cavity Wall and Rainscreen Insulation

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Thermal Resistance (thickness ≤ 2")	R-Value / inch @ 75°F 4.2 hr.ft2.F/Btu RSI value / 25.4mm @ 24°C 0.74 m2K/W	ASTM C518 (C177)
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Issued 04-01-16
Supersedes 12-16-15

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ROXUL INC
8024 Esquesing Line
Milton, On. L9T 6W3
tel: 800-265-6878
fax: 800-991-0110
www.roxul.com

Transmittal for shop drawing submittal
074646-005

Form Header

UNIVERSE®
UNIVERSE® CORPORATION
3333 Foerster Road ■ St. Louis, MO 63044
(314) 439-2800 ■ Fax: (314) 439-2801 ■ www.universecorp.com

Submittal

Company:	Kuenz Heating & Sheet Metal	*Project Name:*	Webster University Interdisciplinary Science Bldg- EQUITONE- Webster Groves MO
Attn:	Chris Bradley	*Project Number:*	2016-06-0556
Address:	811 Westwood Industrial Park Drive	*Submitted On:*	08/22/2016 - Monday
City State, ZIP:	St. Charles, MO 63304, USA	*Submitted By:*	Karen Neutzling/UNIVERSE
Phone:	(636) 936-1555	*Submitted Via:*	EMAIL
Requested By:	09/09/2016 - Friday	*Submittal Number:*	**001**
		Status:	04. Submitted

Form Scope

Submittal Type:

- ☒ Shop Drawings
- ☐ Color Samples
- ☐ Product Data
- ☐ Product Samples
- ☐ Field Measurement Request
- ☐ Other
- ☐ Close-Out Drawings

Description: 1st submittal shop drawings

Form Submittal Items

Submittal Items:

Item	Date	Copies	Description
1	08/22/2016	1	PDF. OF SHEETS T1 AND E1

Form Comments

Comments:

Please forward the above noted drawings to all necessary parties and return one signed and dated set back to us noted as "approved" or "approved as noted".

CANNONDESIGN

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

Joe Voypick
SUBMITTED BY

074646-004
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

074646
SPECIFICATION SECTION / PARAGRAPH

Kuenz Heating and Sheet
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

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

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

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

PARIC

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

Joe Voypick
REVIEWED BY

8/31/16
DATE

To be completed by Reviewer

07 4646-004
CANNON DESIGN SUBMITTAL NUMBER

9/1/16
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.

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A/E COMMENTS ◯ See attached sheet(s) for additional comments

See Substitution Request 17 for product data.

REVIEWED BY

9/14/16
DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0204

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/31/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Fiber Cement Siding Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		074646-004	1		08/31/2016	Fiber Cement Siding Product Data	Submitted

NOTES:

CC:

Signed: _____

Devin Gates

KUENZ

Heating & Sheet Metal Co.

Industrial, Institutional, Commercial and Fabrication

TRANSMITTAL LETTER

To: Paric Corporation Attention: Devin Gates 77 Westport Plaza Dr. Ste.250 St.Louis, Mo 63146	**From:** *Kuenz Heating and Sheet Metal* *811 West Wood Ind. Park Drive* *Weldon Springs, MO 63304*
Project: *WEBSTER UNIVERSITY ISB*	**Submittal Spec Section:** *074646 fiber-cement siding*

Date: 8/29/2016

for your consideration please find and review the attached files.

The following contains:

[X] Shop Drawings	[ ] Submittals	[ ] Specifications	[ ] Color Charts
[X] Data Sheets	[ ] Drawings	[ ] Catalog Cuts	[ ] Change Order
[ ] Brochure	[ ] Schedule	[ ] Addendum #_____	[ ] Samples

1	Mock up shop drawings
	Insulation data sheet
	Cascadia clip information
	Air and water barrier penetration sealant

The files attached are to be considered for:

[X] For approval	[X] For review	[ ] Not approved	[ ] As requested
[ ] For quotation due	[ ] For your information	[ ] For revision	

[ ] Other:_____

Remarks:

Copy to:_____

Submitted by: Chris Bradley

Chris Bradley

811 Westwood Industrial Park Drive St. Charles, Missouri 63304
Phone 636.936.1555 Fax 636.300.9992
chris@kuenzsheetmetal.com