



WEAVER CONSTRUCTION MANAGEMENT, INC.
 3679 S. Huron St., Suite 404
 Englewood, CO 80110
 Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITTAL

September 13, 2011

WGC Submittal No: 07200-001

PROJECT: **Harold Thompson Regional WRF**
 Birdsall Rd.
 Fountain, CO 80817
 Job No. 2908

ENGINEER: **GMS, Inc.**
 611 No. Weber St., #300
 Colorado Springs, CO 80903
 719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan
 Sewage Disposal District**
 901 S. Santa Fe Ave.
 Fountain, CO 80817
 719-382-5303 James Heckman

CONTRACTOR: **United Insulators**
mike@unitedinsulators.com

SUBJECT: Insulation Submittal - Vapor Barrier and Insulation for Batts and Ceilings

SPEC SECTION: 07200- Insulation

PREVIOUS SUBMISSION DATES: n/a

DEVIATIONS FROM SPEC: ___ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by WCM and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

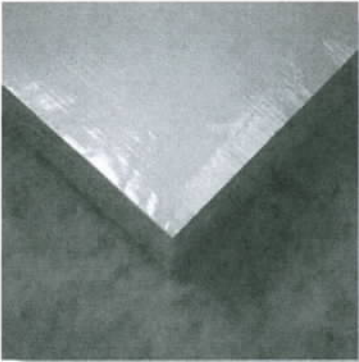
<p>Contractor's Stamp:</p> <p>Date: 9/12/11 Reviewed by: H.C. Myers <input checked="" type="checkbox"/> Reviewed Without Comments <input type="checkbox"/> Reviewed With Comments</p> <p>ENGINEER'S COMMENTS: _____</p>	<p>Engineer's Stamp:</p>
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INNOVATIONS FOR LIVING™

INSULATION SPECIFICATIONS

SUBMITTAL SHEET



submitted to:	WEAVER CONSTRUCTION MANAGEMENT
submitted by:	UNITED INSULATORS, INC.
date:	9-9-2011
job reference:	07200-INSULATION (BATTS @ CEILING)
job name:	H.D. THOMPSON HEADWORKS STRUCTURE

Thermal Batt Insulation – Unfaced Fiber Glass



Unfaced Thermal Batt Insulation is designed to improve the thermal performance of wall and roof/ceiling assemblies. Thermal Batts fit tightly between framing and are held in place by friction.

Cathedral Batts are designed to fit tightly between cathedral rafters and when properly installed, still provide the necessary air ventilation space above the insulation.

Unfaced

Technical Data

R-value	Width		Length	Thickness
Metal Frame Construction				
13	<input type="checkbox"/> 16"/406mm	<input type="checkbox"/> 24"/609mm		<input type="checkbox"/> 96"/2438mm 3 1/2"/89mm
15	<input type="checkbox"/> 16"/406mm	<input type="checkbox"/> 24"/609mm		<input type="checkbox"/> 96"/2438mm 3 1/2"/89mm
19	<input type="checkbox"/> 16"/406mm	<input type="checkbox"/> 24"/609mm	<input type="checkbox"/> 48"/1219mm	<input type="checkbox"/> 96"/2438mm 6 1/4"/159mm
21	<input type="checkbox"/> 16"/406mm	<input type="checkbox"/> 24"/609mm		<input type="checkbox"/> 96"/2438mm 5 1/2"/139mm
Wood Frame Construction				
11	<input type="checkbox"/> 15"/381mm	<input type="checkbox"/> 19 1/4"/488mm*	<input type="checkbox"/> 23"/584mm	<input type="checkbox"/> 93"/2362mm <input type="checkbox"/> 105"/2664mm* 3 1/2"/89mm
13	<input type="checkbox"/> 11"/279mm*	<input type="checkbox"/> 19 1/4"/488mm*		<input type="checkbox"/> 93"/2362mm 3 1/2"/89mm
13	<input type="checkbox"/> 15"/381mm		<input type="checkbox"/> 23"/584mm*	<input type="checkbox"/> 93"/2362mm <input type="checkbox"/> 105"/2664mm 3 1/2"/89mm
15	<input type="checkbox"/> 15"/381mm		<input type="checkbox"/> 23"/584mm	<input type="checkbox"/> 93"/2362mm <input type="checkbox"/> 105"/2664mm* 3 1/2"/89mm
19	<input type="checkbox"/> 15"/381mm		<input type="checkbox"/> 23"/584mm	<input type="checkbox"/> 93"/2362mm <input type="checkbox"/> 105"/2664mm* 6 1/4"/159mm
19		<input type="checkbox"/> 19 1/4"/488mm		<input type="checkbox"/> 48"/1219mm 6 1/4"/159mm
21	<input type="checkbox"/> 15"/381mm		<input type="checkbox"/> 23"/584mm	<input type="checkbox"/> 93"/2362mm 5 1/2"/139mm
Roof/Ceiling Construction				
19	<input type="checkbox"/> 15"/381mm		<input type="checkbox"/> 23"/584mm	<input type="checkbox"/> 48"/1219mm <input type="checkbox"/> 93"/2362mm 6 1/4"/159mm
19	<input type="checkbox"/> 16"/406mm	<input type="checkbox"/> 19 1/4"/488mm	<input type="checkbox"/> 24"/609mm	<input type="checkbox"/> 48"/1219mm <input type="checkbox"/> 96"/2438mm 6 1/4"/159mm
22	<input type="checkbox"/> 15"/381mm	<input type="checkbox"/> 23"/584mm*	<input type="checkbox"/> 24"/609mm	<input type="checkbox"/> 48"/1219mm* 6 3/4"/171mm
25	<input type="checkbox"/> 15"/381mm		<input type="checkbox"/> 23"/584mm*	<input type="checkbox"/> 96"/2438mm* 8"/203mm
25	<input type="checkbox"/> 16"/406mm	<input type="checkbox"/> 19 1/4"/488mm	<input type="checkbox"/> 24"/609mm	<input type="checkbox"/> 96"/2438mm 8"/203mm
30	<input type="checkbox"/> 15"/381mm		<input type="checkbox"/> 23"/584mm*	<input type="checkbox"/> 48"/1219mm* 9 1/2"/241mm
30	<input type="checkbox"/> 16"/406mm	<input type="checkbox"/> 19 1/4"/488mm	<input checked="" type="checkbox"/> 24"/609mm	<input checked="" type="checkbox"/> 48"/1219mm 9 1/2"/241mm
30C	<input type="checkbox"/> 15 1/2"/394mm		<input type="checkbox"/> 23 3/4"/603mm	<input type="checkbox"/> 48"/1219mm 8 1/4"/209mm
38	<input type="checkbox"/> 16"/406mm		<input type="checkbox"/> 24"/609mm	<input type="checkbox"/> 48"/1219mm 12"/305mm
38C	<input type="checkbox"/> 15 1/2"/394mm		<input type="checkbox"/> 23 3/4"/603mm	<input type="checkbox"/> 48"/1219mm 10 1/4"/260mm

* limited geographic offering.

Unfaced Thermal Batt Insulation complies with the property requirements of ASTM C 665, Type I and ASTM E 136.

Surface Burning Characteristics/Building Code Construction Classification

Flame Spread	Smoke Developed	ICC	ICBO	BOCA	SBCCI
25	50	All Types	All Types	All Types	All Types

* BATT INSULATION IN CEILING, COVERED w/1010 POLY

raft-R-mate® Attic Rafter Vents



Technical Data

Width	Length	Vents/Bag
<input checked="" type="checkbox"/> 22 1/2"/572mm	<input checked="" type="checkbox"/> 48"/1219mm	50

Caution: Combustible. raft-R-mate attic rafter vents will ignite if exposed to fire of sufficient heat and intensity.

*BAFFLES @ EAVES FOR
ATTIC VENTILATION*

raft-R-mate® is a polystyrene sheet shaped to prevent attic or rafter cavity insulation (batt or blown) from covering eave or soffit vents, or from expanding to fill cavity airways and restricting airflow.

QuietZone® Acoustic Batts



Technical Data

Wood Frame Construction

Width	Length	Thickness
<input type="checkbox"/> 15"/381mm	<input type="checkbox"/> 93"/2362mm	<input type="checkbox"/> 3 1/2"/89mm
<input type="checkbox"/> 15"/381mm	<input type="checkbox"/> 105"/2667mm	<input type="checkbox"/> 3 1/2"/89mm
<input type="checkbox"/> 15 1/2"/393mm	<input type="checkbox"/> 93"/2362mm	<input type="checkbox"/> 5 1/2"/139mm
<input type="checkbox"/> 23"/584mm	<input type="checkbox"/> 93"/2362mm	<input type="checkbox"/> 3 1/2"/89mm
Unfaced*		
<input type="checkbox"/> 15 1/4"/387mm	<input type="checkbox"/> 93"/2362mm	<input type="checkbox"/> 3 1/2"/89mm
<input type="checkbox"/> 15 1/4"/387mm	<input type="checkbox"/> 105"/2667mm	<input type="checkbox"/> 3 1/2"/89mm
<input type="checkbox"/> 23 1/4"/590mm	<input type="checkbox"/> 93"/2362mm	<input type="checkbox"/> 3 1/2"/89mm

- Unfaced*
 Kraft-faced

QuietZone® is fiber glass acoustic batt insulation designed to absorb sound vibrations in wall, floor and ceiling applications for noise control.

Dimensional stability - Linear shrinkage less than 0.1%, Water absorption max. by volume less than 0.05%
 * Limited geographic offering.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	ICC	BOCA	SBCCI
Unfaced	25	50	All Types	All Types	All Types	All Types
Kraft-faced	N/R	N/R	III, IV, V	III, IV, V	III, IV, V	III, V, VI

Kraft facing will burn and must not be left exposed. Protect facing from open flame or heat source.

9-9-2011

TO: WEAVER CONSTRUCTION MANAGEMENT RE: 07200 (VAPOR BARRIER)
FROM: UNITED INSULATORS, INC. JOB NAME - H.D. THOMPSON



CONSTRUCTION SHEETING

Poly-America's construction sheeting is made from polyethylene which provides for optimum in economy and performance. Because of its good weatherability, chemical inertness and toughness, Poly-America's polyethylene sheeting has successfully been used for over 20 years in a wide variety of applications. Thickness ranges from as little as .3 mil for paint drop cloths to 100 mil for use as landfill liners. Widths range up to 40 ft. If you have a special application or need more information on our products, contact your area sales representative.

Poly-America's standard sheeting will meet or exceed the following standard technical specifications:

Construction Sheeting

ASTM D4397 (see Tables 1 for Impact Resistance and WVTR requirements)

ASTM C171 Standard Specification for Sheet Materials Used for Curing Concrete

ASTM D4635

Type 1
Class 2
Surface 2
Finish 1

Federal Specification LP-378

Type 1
Class 1
Grade A or B
Finish 1

Federal Specification LP-390

Type I
Class L
Grade 1 or 2
Category 3

Federal Specification LP-512

Type I
Class L

Grade 1 or 2

Construction Sheeting Cont.

ASTM D1248

Type 1 (density .910 to .925)
Category 3 (melt index 1 to 10)
Class A or C (A- natural or clear)
(C- black)

ASTM D2103 Standard Classification 12230 (clear)
12231 (black)

Note: If requested custom sheeting can be made to meet the following classifications:
12130 13130 13230 12330 13330

Flexible Packaging Association B11

Type I
Surface II
Class I
Finish I

TABLE 1

Thickness ASTM D374 mils	Dart Impact ASTM D1709 gm	WVTR ASTM E96 gm/100 sq in-day	WVTR ASTM E96 perms	WVTR ASTM E96 metric perms
1	40	1.40	.76	.50
2	85	.70	.38	.25
3	125	.47	.25	.17
4	165	.35	.19	.12
5	205	.28	.15	.10
6	260	.23	.13	.084
7	315	.20	.11	.070
8	370	.18	.096	.063
9	420	.16	.082	.054
10	475	.14	.076	.050

NOTE: The above is for our standard sheeting products. Poly-America will produce custom sheeting products to meet other classifications or specifications. Contact Poly-America to see how they can help you with your needs.

.010 Poly TO CEILING (UPGRADE FROM PLANS WHICH SAY .008 Poly)