

SHOP DRAWING REVIEW FORM AND TRANSMITTAL

DATE: November 18, 2021

TO: Carl Hendrickson
Project Manager
Veolia Water
825 West Water Street
Taunton, MA 02780

FROM: Michael Andrus, P.E.
Project Manager
BETA Group, Inc.
701 George Washington Hwy
Lincoln, Rhode Island 02865

RE: City of Taunton, MA
WWTF Phase 1 Improvements
Contract S-2021-1

Shop Drawing No. 07212-01 – Board Insulation

BETA COMMENTS:

<u>Item</u>	<u>Action Code</u>	<u>Description/Comments</u>
1	2	Board Insulation (Dupont) 1. See attached comments from GHD

Action Codes

- 1 - No Exception Taken
- 2 - Make Corrections Noted
- 3 - Amend and Resubmit
- 4 - Rejected, See Remarks

- a. Installation shall proceed only when Action Code is '1' or '2'.
- b. Submittals action coded '3' shall be resubmitted within time limit set in Contract.
- c. Review does not relieve Contractor from responsibility of compliance with the Contract Documents.



PROJECT: 9900. - Veolia/Taunton WWTF Phase 1 Improvements

DATE: 10/15/2021

SUBMITTAL: 07212-01 - Board Insulation
REVISION: 0
STATUS: Eng
SPEC #: 07212

TO: Michael Andrus
Beta Group Inc.
6 Blackstone Place
Lincoln, RI 02865
MAndrus@BETA-Inc.com

FROM: Ryan Murphy
Hart Engineering Corporation
800 Scenic View Drive
Cumberland, RI 02864
rmurphy@hartcompanies.com

Table with 6 columns: Item, Revision, Description, Status, Date Sent, Date Returned. Row 1: 07212-01, 0, Board Insulation, Eng, 10/15/2021. Row 2: Notes:

SHOP DRAWING REVIEW
[] 1 - Approved [x] 2 - Approved as Noted
[] 3 - Revise and Resubmit [] 4 - Rejected
[] 5 - Record File Only - No Action Taken
(Above Check Designates Action Code - See Review Comments)
IMPORTANT NOTE FOR CONTRACTOR
Review is only for general compliance with the design concept and information provided in Contract Documents. Corrections and comments made on the Shop Drawings during review do not relieve the Contractor from compliance with the requirements of the plans and specifications. Review and/or approval of a specific item shall not include review or approval of an assembly of which the item is a component. No approval or correction of a Shop Drawing shall be construed as an order for extra work. The Contractor is responsible for: all quantities and dimensions to be confirmed and correlated; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all trades and subcontractors; and performing all Work in a safe and satisfactory manner.
BETA GROUP, INC. Checked By: KNH (GHD)
By: MLA Date: 11/18/21

Additional Notes:

Status Codes

- 1-APP - No Exceptions Taken
2-ANR - Make Corrections Noted
3-R&R - Revise and Resubmit
4-REJ - Rejected
5-IPO - For Information Purposes Only
6-NRR - Not Required for Review
ENG - Submitted to Engineer

Sincerely,
Hart Engineering Corporation

DATE: 10/15/2021



SUBMITTAL REVIEW COMMENT SHEET

PROJECT TITLE:	Taunton WWTG Phase 1 Improvements		
OWNER:	Town of Taunton, MA		
CONTRACT NO.:		PROJECT NO.:	11186884

SUBMITTAL NO. AND TITLE:	07212-01-Board Insulation	<input type="checkbox"/> ACCEPTED <input type="checkbox"/> ACCEPTED AS CORRECTED (NO RESUBMITTAL REQUIRED) <input type="checkbox"/> ACCEPTED AS CORRECTED (RESUBMITTAL REQUIRED) <input checked="" type="checkbox"/> ACCEPTED AS CORRECTED (PROVIDE REQUESTED INFORMATION ONLY)
SPECIFICATION SECTION NO. AND TITLE:	11186884-SPC1	
<input checked="" type="checkbox"/> SHOP DRAWING <input type="checkbox"/> O&M MANUAL <input type="checkbox"/> PRODUCT SAMPLE <input type="checkbox"/> OTHER:	Reviewed only for conformance with the design concept of the project and with information given in the Contract Documents. The Contractor is responsible for: 1) verifying that dimensions are confirmed and correlated at the job site; 2) obtaining information that pertains to the fabrication processes or to techniques of construction; and 3) coordinating the work of all subcontractors.	<input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> NOT APPROVED <input type="checkbox"/> NOT REVIEWED <input type="checkbox"/> FOR INFORMATION PURPOSES ONLY

By: KNH

Date: 11/5/2021

Comments:

1. Indicate psi of high load insulation to be used.



Jeremy Boulay
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Contractors Supply Inc.
 3340 Pawtucket Ave
 East Providence, RI
 02915
 United States

Project Name Taunton WWTP - Phase I

Package Name	07 21 20, v01	Due Date	13 Oct 2021
Revision #	1	Need By Date	13 Oct 2021
Package type	For approval Full submittal		

07 21 20

#	Sub-section	Item Specified	Source or Mfr	Item Submitted	Notes
0008 - 2.02.A.		Polystyrene Insulation view spec	DuPont Performance Building Solutions	Styrofoam™ Brand Square Edge XPS Foam Insulation Styrofoam-Brand-Square-Edge-XPS-Foam-Insulation-Product-Data-1931275.pdf Styrofoam-Brand-Highload-40-60-and-100-XPS-Foam-Insulation-Product-Data-1931268.pdf	

Section: 07 21 20

#: 0008

Specified: 2.02.A., Polystyrene Insulation

Reference: [view spec](#)

Item submitted: Styrofoam™ Brand Square Edge XPS Foam Insulation

Styrofoam-Brand-Square-Edge-XPS-Foam-Insulation-Product-Data-1931275.pdf

Styrofoam-Brand-Highload-40-60-and-100-XPS-Foam-Insulation-Product-Data-1931268.pdf

DuPont™ Styrofoam™ Brand Square Edge XPS Foam Insulation

Water-Resistant Insulation for Attics, Foundations and Crawl Spaces

FEATURES/BENEFITS

Description

DuPont™ Styrofoam™ Brand Square Edge Extruded Polystyrene (XPS) Foam Insulation* is an extruded polystyrene foam (XPS) insulation board that meets the needs of the commercial foundation and building floor slab market and can also be used for attics, foundations/slabs and crawl spaces in residential applications.

With more than 60 years of proven performance in wet environments, the closed-cell structure of Styrofoam™ Brand Square Edge Insulation resists water pickup, enabling it to retain a high R-value** over time – a necessary property in wet, below-grade commercial foundation applications.

Styrofoam™ Brand Square Edge Insulation is classified as a Type IV product when tested in accordance with ASTM C578 and provides a long term insulating performance of R-5 per inch.

Sustainable Solutions

- Styrofoam™ Brand Square Edge Insulation is reusable in many applications.
- Styrofoam™ Brand Square Edge Insulation uses BluEdge™ technology. It is hydrochlorofluorocarbon (HCFC) free with zero ozone depletion potential.
- Styrofoam™ Brand insulation products produced in North America contain an average of 20% pre-consumer recycled content certified by UL Environment Inc.

Available Sizes

- Width and length: 2' x 8' and 4' x 8'
- Thickness: .75", 1", 1.5", 2", 2.5", 3", 4"

See Table 1 for product and packaging data. Available lengths and edge configurations vary by thickness. Not all product sizes are available in all parts of the country. Contact your local DuPont representative for details.

Ease of Use

Styrofoam™ Brand Square Edge Insulation boards:

- are easy to handle, cut using a utility knife or serrated blade, and install
- provide a weather resistant barrier to enhance the building's resistance to air and moisture penetration
- can be used in a number of applications like sheathing, foundation walls, masonry cavity walls, attics, crawl spaces, and more
- come in a wide selection of sizes and thicknesses
- have a minimum compressive strength of 25 psi and a flexural strength of 50 psi
- are designed to ensure energy efficiency and minimize on-site cutting and waste
- are resistant to degradation from soil components and will retain insulating performance characteristics after prolonged exposure to moisture
- provide a secondary barrier against groundwater leakage
- help protect foundation dampproofing and waterproofing, especially during backfilling
- minimize the freeze-thaw cycling of the foundation, reducing the potential for cracking
- warm the foundation, reducing the potential for condensation
- will not corrode, rot or support mold growth
- are compliant with international building codes and standards

TABLE 1: Product and Packaging Data for Styrofoam™ Brand Square Edge XPS Foam Insulation

Thickness (in)	Product Dimensions (in.)	Pallet Dimensions (ft.)	Board Feet per Pallet	Bundles per Unit	Pieces per Bundle	Pieces per Pallet
1	1 x 48 x 96	4 x 8 x 8	3072	8	12	96
1.5	1.5 x 48 x 96	4 x 8 x 8	3072	8	8	64
2	2 x 48 x 96	4 x 8 x 8	3072	8	6	48
2.5	2.5 x 48 x 96	4 x 8 x 8	2800	7	5	35
3	3 x 48 x 96	4 x 8 x 8	3072	8	4	32
3.5	3.5 x 48 x 96	4 x 8 x 8	2688	8	3	24
4	4 x 48 x 96	4 x 8 x 8	3072	8	3	24

* R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-value determined by ASTM C518.

PROPERTIES

DuPont™ Styrofoam™ Brand Square Edge Extruded Polystyrene (XPS) Foam Insulation exhibits physical properties as indicated in Table 2 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-866-583-2583 when additional guidance is required for writing specifications that include this product.

TABLE 2: Physical Properties of Styrofoam™ Brand Square Edge XPS Foam Insulation

Test Method	Property	Typical Value	Units
ASTM C518	Thermal Resistance ¹ per inch		
	@ 75°F mean temp.	5.0	ft ² ·h·°F/Btu, R-value, min.
	@ 40°F mean temp.	5.4	
@ 25°F mean temp.	5.6		
ASTM D1621	Compressive Strength ²	25	psi, min.
ASTM C272	Water Absorption	0.1	% by volume, max.
ASTM E96	Water Vapor Permeance ³	1.5	perm, max.
–	Maximum Use Temperature	165	°F
ASTM D696	Coefficient of Linear Thermal Expansion	3.5 x 10 ⁻⁵	in/in·°F
ASTM C203	Flexural Strength	50	psi, min.
ASTM E84	Surface Burning Characteristics for both foam core and finished product	Class A	
	Flame Spread	25	
	Smoke Developed	<450	

¹ R-values are consistent with criteria of ASTM C578 and the requirements of the FTC R-value rule (16 CFR Part 460).

² Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first.

INSTALLATION

Use Conditions

Styrofoam™ Brand Square Edge Insulation can be used against commercial interior walls and exterior foundation walls in above- and below-grade applications. **Styrofoam™ Brand Square Edge** can be used under the slab or over the deck or subfloor and is suitable for use in pervious, semi-pervious and practically impervious soils.

Preparation

It is recommended that any masonry irregularities or jagged surfaces on the foundation wall or slab be removed prior to installation. Below-grade walls should be protected from moisture leakage and dampness prior to installation of **Styrofoam™ Brand Square Edge Insulation**. Code-approved drainage systems should be installed. Ensure foundation drainage meets local codes.

Application

- Use a polystyrene-compatible adhesive to hold the boards in place during backfilling.
- Apply caulk or mastic to the top of the board to prevent water infiltration behind the insulation.
- To complete the installation, parge the above-grade portions of **Styrofoam™ Brand Square Edge Insulation** to protect from solar radiation.

TESTING

Applicable Standards

DuPont™ Styrofoam™ Brand Square Edge Extruded Polystyrene (XPS) Foam Insulation meets ASTM C578, Type IV –Standard Specification for Rigid Cellular Polystyrene Thermal Insulation. Applicable standards include:

- **C518** – Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- **D1621** – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- **E96** – Standard Test Methods for Water Vapor Transmission of Materials
- **D696** – Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer
- **C203** – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
- **D2126** – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
- **C272** – Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Construction

Notice

Styrofoam™ Brand Square Edge Insulation complies with the following codes:

- International Residential Code (IRC) and International Building Code (IBC), see ESR-2142
- Underwriters Laboratories, Inc. (UL) Classified, see Classification Certificate D369
- Calif. Std. Reg. # CA T064 Florida Building Code FL 3835
- Factory Mutual Approved – Subject to conditions of approval as a roof insulation when installed as described in the current edition of the FM Approval Guide

Warranty

In the United States, a 50-year thermal limited warranty is available on **Styrofoam™ products** 1.5 inches and greater. For thickness less than 1.5 inches, other warranties may apply. Warranties are available as described at building.dupont.com/warranties.

HANDLING

WARNING: For Professional Use Only. Read and follow the entire Safety, Handling, and Storage section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. The information below is designed to protect the user and allow for safe use and handling of DuPont products. Follow all applicable federal, state, local and employer regulations.

Precautionary Statements

Styrofoam™ Brand Square Edge Insulation is combustible; protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the local building codes. For more information, consult the SDS, call DuPont at 1-866-583-2583 or contact your local building inspector.



**For more information visit us at
styrofoam.com
or call 1-866-583-2583**

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DuPont™ Styrofoam™ Brand Extruded Polystyrene Foam Insulation

CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.

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43-D100047-enUS-0120 CDP

DuPont™ Styrofoam™ Brand Highload 40, 60 and 100 XPS Foam Insulation

Tough, Versatile Insulation for Commercial High-Load, Low-Temp and Geotechnical Applications

FEATURES/BENEFITS

Description

DuPont™ Styrofoam™ Brand Highload Extruded Polystyrene (XPS) Foam Insulation* is a closed-cell foam insulation designed for use in low-temperature (freezer floor) applications, highways, airport runways, bridge abutments, parking decks, utility lines, ice rinks and plaza decks.

Available in compressive strengths of 40, 60 and 100 psi (275, 415 and 690 kPa), Styrofoam™ Brand Highload Insulation features exceptional moisture resistance and R-value** retention. All three Styrofoam™ Brand Highload products resist compressive creep and fatigue, delivering long-term compressive strength.

Like all Styrofoam™ Brand insulation products, Styrofoam™ Brand Highload 40, 60 and 100 are durable, versatile and reusable – making them a preferred choice for a variety of high-load applications.

Sustainable Solutions

Styrofoam™ Brand Highload Insulation uses BluEdge™ technology. It is hydrochlorofluorocarbon (HCFC) free with zero ozone depletion potential and is reusable in many applications.

PROPERTIES

Styrofoam™ Brand Highload Insulation products exhibit the typical physical properties indicated in Tables 1 and 2 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-866-583-2583 when additional guidance is required for writing specifications that include this product.

* Styrofoam™ Brand Highload Extruded Polystyrene Foam Insulation is a former product of The Dow Chemical Company.

** R means resistance to heat flow. The higher the R-value or RSI, the greater the insulating power.

TABLE 1: U.S. Typical Physical Properties of Styrofoam™ Brand Highload 40, 60 and 100 XPS Foam Insulation

Property and Test Method	Highload	Highload	Highload
	40	60	100
Thermal Resistance, per inch, ASTM C518, C177, @ 75°F mean temp., ft ² ·h ² ·°F/Btu, R-value, min.	5.0	5.0	5.0
Compressive Strength ⁽¹⁾ , ASTM D1621, psi, min.	40	60	100
Water Absorption, ASTM C272, % by volume, max. (24 hr water immersion)	0.1	0.1	0.1
Water Vapor Permeance ⁽²⁾ , ASTM E96, perms	1.0 (57.2ng/ Pa.s.m ²)	0.8 (45.8 ng/Pa.s.m ²)	0.8 (45.8 ng/Pa.s.m ²)
Maximum Use Temperature, °F	165	165	165
Coefficient of Linear Thermal Expansion, ASTM D696, in/in·°F	3.5 x 10 ⁻⁵	3.5 x 10 ⁻⁵	3.5 x 10 ⁻⁵
Flexural Strength, ASTM C203, psi, min.	60	75	100
Compressive Modulus (typical), ASTM D 1621, psi (kPa)	1,400 (9,650)	2,200 (15,170)	3,700 (25,510)
Complies with ASTM C578, Type	VI	VII	V

⁽¹⁾ Vertical compressive strength is measured at 5 percent deformation or at yield, whichever occurs first. Since Styrofoam insulations are visco-elastic materials, adequate design safety factors should be used to prevent long-term creep. For static loads, 3:1 is suggested. For dynamic loads, call 1-866-583-2583 for safety factor recommendation.

⁽²⁾ Water vapor permeance varies with product type and thickness. Values are based on the desiccant method and they apply to insulation 1" or greater in thickness.

⁽³⁾ These numerical flame-spread and smoke-developed ratings are not intended to reflect hazards presented by this or any other material under actual fire condition. Refer to UL for details on foam thickness and maximum density evaluated.

TABLE 2: Canadian Typical Physical Properties of Styrofoam™ Brand Highload 40, 60 and 100 XPS Foam Insulation

Property and Test Method	Highload	Highload	Highload
	40	60	100
Thermal Resistance, per inch (25 mm), ASTM C518, C177, @ 75°F (24°C) mean temp., ft ² ·h ² ·°F/Btu (m ² ·°C/W), R-value (RSI), min.	5.0 (.88)	5.0 (.88)	5.0 (.88)
Compressive Strength ⁽¹⁾ , ASTM D1621, psi (kPa), min.	40 (275)	60 (415)	100 (690)
Water Absorption, ASTM D2842, % by volume, max. (96 hr water immersion)	0.3	0.3	0.3
Water Vapour Permeance ⁽²⁾ , ASTM E96, perms (ng/Pa.s.m ²)	1.0 (57.2ng/ Pa.s.m ²)	0.8 (45.8ng/Pa.s.m ²)	0.8 (45.8ng/Pa.s.m ²)
Maximum Use Temperature, °F	165 (74)	165 (74)	165 (74)
Coefficient of Linear Thermal Expansion, ASTM D696, mm/m·C (in/in·°F)	3.5 x 10 ⁻⁵ (6.3 x 10 ⁻²)	3.5 x 10 ⁻⁵ (6.3 x 10 ⁻²)	3.5 x 10 ⁻⁵ (6.3 x 10 ⁻²)
Flexural Strength, ASTM C203, psi, min.	70 (480)	85 (585)	100 (585)
Compressive Modulus (typical), ASTM D 1621, psi (kPa)	1,400 (9,650)	2,200 (15,170)	3,700 (25,510)
Complies with CAN/ULC S701, Type	4	4	4
Surface Burning Characteristics, CAN/ULC S102.2 for both foam core and finished product ³			
Flame Spread	<300	<300	<300
Smoke Developed	<700	<700	<700

⁽¹⁾ Vertical compressive strength is measured at 5 percent deformation or at yield, whichever occurs first. Since Styrofoam insulations are visco-elastic materials, adequate design safety factors should be used to prevent long-term creep. For static loads, 3:1 is suggested. For dynamic loads, call 1-866-583-2583 for safety factor recommendation.

⁽²⁾ Water vapour permeance varies with product type and thickness. Values are based on the desiccant method and they apply to insulation 1" (25 mm) or greater in thickness.

⁽³⁾ Tested per CAN/ULC S102.2. Refer to UL and CCMC listings for details on foam thickness and maximum density evaluated.

TESTING

Applicable Standards

DuPont™ Styrofoam™ Brand Highload Extruded Polystyrene (XPS) Foam Insulation meets ASTM C578 – Standard Specification for Rigid Cellular Polystyrene Thermal Insulation. Applicable ASTM standards include:

- **C518** – Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- **C177** – Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus
- **D1621** – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- **D2842** – Standard Test Method for Water Absorption of Rigid Cellular Plastics
- **E96** – Standard Test Methods for Water Vapor Transmission of Materials
- **C272** - Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions
- **D696** – Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C With a Vitreous Silica Dilatometer
- **C203** – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation Cellular Plastics

- **D4716** – Standard Test Method for Determining the (In-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head
- CAN/ULC S701 Type 4

Notice

Styrofoam™ Brand Highload Insulation complies with the following codes:

- International Residential Code (IRC) and International Building Code (IBC); see ICC-ES ESR 2142 (excluding STYROFOAM™ HIGHLOAD 100)
- California Std. Reg. #CA T-064
- Underwriters Laboratories, see Classification Certificate D369
- Underwriters Laboratories Verified to ESR 2142
- CCMC – EVALUATION 04888-L

Warranty

In the United States, a 50-year thermal limited warranty is available on **Styrofoam™ Brand Insulation** products 1.5 inches and greater. For thickness less than 1.5 inches, other warranties may apply. Visit building.dupont.com/warranties or contact your DuPont representative for details.

HANDLING

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Precautionary Statements

- Before installation, roof substrate must be clean, dry, smooth and free from oil, grease, rust, frost and snow. Since dust would impair the performance of adhesives and finishes, dusty surfaces should be brushed off before products are applied.
- **Styrofoam™ Brand Highload 40, 60 and 100 Insulation** are combustible; protect from high heat sources.
- Local building codes may require a protective or thermal barrier. For more information, consult (M)SDS, call DuPont at 1-866-583-2583 or contact your local building inspector.
- Dispose of any residual Styrofoam™ Brand product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.



**For more information visit us at
styrofoam.com
or call 1-866-583-2583**

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DuPont™ Styrofoam™ Brand Extruded Polystyrene Foam Insulation

CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

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43-D100079-enNA-1120 CDP