SECTION 07 21 19

FOAMED-IN-PLACE INSULATION

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\*\* NOTE TO SPECIFIER \*\* Carlisle Spray Foam Insulation; spray polyurethane foam insulation.
This section is based on the products of Carlisle Spray Foam Insulation, which is located at:
100 Enterprise Dr.
Cartersville, GA 30120
Tel: 844-922-2355
Email: [request info ()](https://admin.arcat.com/users.pl?action=UserEmail&company=Carlisle+Spray+Foam+Insulation&coid=32372&rep=&fax=&message=RE:%20Spec%20Question%20(07219csf):%20%20&mf=)
Web: <https://www.carlislesfi.com>
 [ [Click Here](https://www.arcat.com/arcatcos/cos32/arc32372.html) ] for additional information.
CarlisleSpray Foam Insulation (CSFI) is a leading manufacturer of spray polyurethane foam systems in North America. Previously marketed under Accella Polyurethane Systems, Bayer Material Science and Covestro - Carlisle Spray Foam Insulation is a fully integrated, spray foam insulation provider, backed by the technology resources, and grounded on the corporate stability, of a century-old icon in the building ecosystem, Carlisle Construction Materials. Our "SealTite PRO" product line of spray-foam building insulation solutions is the superior insulation choice for your next project. Compared to traditional fibrous insulation products, it can be used in both interior and exterior applications to achieve superior performance by providing four levels of protection in one: Thermal, Air, Water, andVapor.
Carlisle Spray Foam Insulation is focused on developing spray-foam insulation solutions to help architects design safe, resilient, energy efficient buildings with low environmental impacts. When planning a project, you need to know more than technical information about products you're specifying. Our "SealTite PRO" products lead the spray foam industry with the most listed Underwriters Laboratory (UL) hourly fire-rated designs and the most extensive NFPA 285 compliant wall assemblies. Our commitment to "SERVICE BEYOND THE SPEC SHEET" provides assurance that the products you recommend and ultimately specify are thoroughly tested for performance, designed to comply with today's demanding building codes, and backed by expert service.
Carlisle Spray Foam Insulation is the only spray-foam manufacturer that provides everything needed to completely seal and protect the building envelop. Together with other CCM brands such as Hunter Panels, Insulfoam, CCW, Henry, and PAC-CLAD, CSFI offers designers the most flexibility and design options to create high-performance building envelope solutions from a single source ensuring material compatibility and total system performance.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Foamed-in-Place Insulation of the following types:
			1. Closed-cell, spray-applied, polyurethane foam insulation. (SealTite PRO Closed Cell, SealTite PRO One Zero, SealTite PRO HFO)
			2. Open-cell, spray-applied, polyurethane foam insulation. (SealTite PRO Open Cell, SealTite PRO No Trim 21, SealTite PRO OCX)
		2. Accessories.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 06 16 36 - Wood Panel Product Sheathing.
		2. Section 07 21 19 - Foamed-In-Place Insulation.
		3. Section 07 27 19 - Plastic Sheet Air Barriers .
		4. Section 07 27 00 - Air Barriers.
		5. Section 07 57 00 - Coated Foamed Roofing.
		6. Section 09 96 13 - Abrasion-Resistant Coatings.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
			1. ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
			2. ASTM D1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
			3. ASTM D1622 - Standard Test Method for Apparent Density of Rigid Cellular Plastics.
			4. ASTM D1623 - Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics.
			5. ASTM D2126 - Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging.
			6. ASTM D2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics.
			7. ASTM D2856 - Standard Test Method for Open-Cell Content of Rigid Cellular Plastics by the Air Pycnometer.
			8. ASTM D6226 - Standard Test Method for Open Cell Content of Rigid Cellular Plastics.
			9. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
			10. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
			11. ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials.
			12. ASTM E413 - Classification for Rating Sound Insulation.
			13. ASTM E423 - Standard Test Method for Normal Spectral Emittance at Elevated Temperatures of Nonconducting Specimens.
			14. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials
			15. ASTM E2178 - Standard Test Method for Air Permeance of Building Materials.
			16. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
		2. ICC Evaluation Service (ICC-ES):
			1. ICC-ES AC377 - Acceptance Criteria for Spray-Applied Foam Plastic Insulation.
		3. International Association of Plumbing and Mechanical Officials (IAPMO).
		4. Underwriters Laboratory (UL).
		5. Spray Polyurethane Foam Alliance: Professional Certification Program (SPFA PCP).
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Submit manufacturer's product data and application instructions.

\*\* NOTE TO SPECIFIER \*\* Delete submittal items not required.

* + 1. Manufacturer's Certification:
			1. Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
			2. Submit manufacturer's certification from SPFA PCP as Accredited Supplier Company.
		2. Third Party Certification:
			1. Submit Certified Environmental Product Declaration (EPD)
			2. Submit Certified Life-Cycle Assessment (LCA)
			3. Submit UL Greenguard certification for compliance with requirements for low-emitting materials
		3. Compliance with State environmental Regulations: Submit manufacturer's Hydrofluorocarbon (HFC) compliance statement.
		4. Product Evaluation Reports: Submit manufacturer's product evaluation reports from accredited evaluation service.
		5. Warranty Documentation: Submit manufacturer's standard warranty.
	1. QUALITY ASSURANCE
		1. Manufacturer's Qualifications:
			1. Manufacturer regularly engaged, for a minimum of 10 years, in the manufacturing of polyurethane foam insulation of similar type to that specified.
			2. Accreditation: SPFA PCP as Accredited Supplier Company.
			3. ISO 9001:2015 Certification
		2. Applicator's Qualifications:
			1. Applicator regularly engaged, for a minimum of 5 years, in application of polyurethane foam insulation of similar type to that specified.
			2. Authorized by manufacturer to install their products.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.

\*\* NOTE TO SPECIFIER \*\* Edit as required for the Project. Delete if not required.

* 1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work.
		2. Require attendance of parties directly affecting Work of this Section, including Contractor, Architect, applicator, and manufacturer's representative.
		3. Review the Following:
			1. Materials.
			2. Protection of in-place conditions.
			3. Surface preparation.
			4. Application.
			5. Field quality control.
			6. Cleaning.
			7. Protection.
			8. Coordination with other Work.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
		2. Storage and Handling Requirements:
			1. Store and handle materials in accordance with manufacturer's instructions.
			2. Keep materials in manufacturer's original, unopened containers and packaging until application.
			3. Store materials in clean, dry area indoors.
			4. Store materials at 70 to 80 degrees F (21 to 27 degrees C) a minimum of 48 hours before use.
			5. Store materials out of direct sunlight.
			6. Protect materials from freezing.
			7. Protect materials during storage, handling, and application to prevent contamination or damage.
	3. PROJECT CONDITIONS
		1. Ambient and Substrate Temperatures: As recommended by Manufacturer.
		2. Moisture: Do not apply polyurethane foam insulation when moisture in form of rain, snow, ice, fog, frost, or dew is expected during application.
		3. Relative Humidity: Do not apply polyurethane foam insulation when relative humidity over 85 percent is expected during application.
		4. Wind: Do not apply polyurethane foam insulation with wind speed above 12 mph (19 kmh).
		5. Do not apply polyurethane foam insulation under ambient conditions outside manufacturer's limits.
	4. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Carlisle Spray Foam Insulation, which is located at: 100 Enterprise Dr.; Cartersville, GA 30120; Tel: 844-922-2355; Email: [request info ()](https://admin.arcat.com/users.pl?action=UserEmail&company=Carlisle+Spray+Foam+Insulation&coid=32372&rep=&fax=&message=RE:%20Spec%20Question%20(07219csf):%20%20&mf=); Web: <https://www.carlislesfi.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. CLOSED-CELL, SPRAY-APPLIED, POLYURETHANE FOAM INSULATION

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Basis of Design: SealTite PRO Closed Cell; as manufactured by Carlisle Spray Foam Insulation.
			1. Performance and Design Requirements:
				1. Standards Compliance:

Acceptance Criteria: ICC-ES AC377

Evaluation Report: IAPMO UES-621.

Greenguard Gold.

* + - * 1. Air Leakage Rate,ASTM E2178: Less than 0.004 cfm per sq ft (0.02 L per sec per sq m) at 1 inch (25 mm).
				2. Moisture Vapor Transmission, Permeance,ASTM E96(Desiccant Method):

Thickness, 1 inch (25 mm): 0.80 perm.

Thickness, 1.3 inch (33 mm): 0.60 perm.

Thickness, 3.5 inches (89 mm): 0.23 perm.

Thickness, 5.5 inches (140 mm): 0.14 perm.

Thickness, 7.9 inches (201 mm): 0.10 perm.

* + - * 1. Moisture Vapor Transmission, Permeance, ASTM E96 (Water Method):

Thickness, 2 inches (50 mm): 0.98 perm.

* + - * 1. Core Density,ASTM D1622: 2.0 pcf (32 kg per cu m), nominal.
				2. R-Value, Aged,ASTM C518:

Thickness, 1 inch (25 mm): 6.9.

Thickness, 3.5 inches (76 mm): 24

Thickness, 5.5 inches (140 mm): 38.

* + - * 1. Compressive Strength,ASTM D1621: 47 psi (324 kPa), nominal.
				2. Tensile Strength,ASTM D1623: 60 psi (414 kPa), nominal.
				3. Water Absorption,ASTM D2842: Less than 2 percent.
				4. Dimensional Stability,ASTM D2126, Change in Volume:

158 Degrees F (70 degrees C), 97 Percent Relative Humidity: Less than 9 percent.

* + - * 1. Closed Cell Content,ASTM D2856: Greater than 90 percent.
				2. Surface Burning Characteristics, ASTM E84, 4 Inches (102 mm):

Flame Spread Index: Less than 25.

Smoke Developed Index: Less than 450.

* + - * 1. Fungi Resistance,ASTM G21: Zero rating.
				2. Toxicity and Hazardous Materials.

Product containing no added urea-formaldehyde.

PBDE-free product.

Free of flammable blowing agents.

Free of trans-1,2-Dichloroethene, TDCE, 1,2-Dichloroethene, 1,2-DCE, and trans-dichloroethylene.

\*\* NOTE TO SPECIFIER \*\* SealTite PRO Closed Cell may not be used in states with hydrofluorocarbon (HFC) restrictions. In these states, HFC-free products must be used such as SealTite PRO One Zero and SealTite PRO HFO.

* + - 1. Description: Two-component, HFC-245fa blown, Closed-Cell Spray Polyurethane Foam: ASTM C1029, Type II.
		1. Basis of Design: SealTite PRO HFO; as manufactured by Carlisle Spray Foam Insulation.
			1. Performance and Design Requirements:
				1. Standards Compliance:

Acceptance Criteria: ICC-ES AC377.

Evaluation Report: IAPMO UES-720.

Greenguard Gold.

* + - * 1. Air Leakage Rate, ASTM E2178: Less than 0.004 cfm per sq ft (0.02 L per sec per sq m) at 1 inch (25 mm).
				2. Moisture Vapor Transmission, Permeance, ASTM E96 (Desiccant Method):

Thickness, 1 inch (25 mm): 1.00 perm.

* + - * 1. Core Density, ASTM D1622: 2.0 pcf (32 kg per cu m), nominal.
				2. R-Value, Aged, ASTM C518:

Thickness, 1 inch (25 mm): 7.2.

Thickness, 3.5 inches (76 mm): 25.

Thickness, 5.5 inches (140 mm): 40.

* + - * 1. Compressive Strength, ASTM D1621: 31 psi (214 kPa), nominal.
				2. Tensile Strength, ASTM D1623: 39 psi (269 kPa), nominal.
				3. Water Absorption, ASTM D2842: Less than 2 percent.
				4. Dimensional Stability, ASTM D2126, Change in Volume: Less than 1percent.
				5. Closed Cell Content, ASTM D2856: Greater than 90 percent.
				6. Surface Burning Characteristics, ASTM E84, 4 Inches (102 mm):

Flame Spread Index: Less than 25.

Smoke Developed Index: Less than 450.

* + - * 1. Compliance with State Environmental Regulations.

Global Warming Potential: Less than or equal to one (1).

Ozone Depletion Potential: Zero (0).

* + - * 1. Toxicity and Hazardous Materials.

Product containing no added urea-formaldehyde.

PBDE-free product.

Free of flammable blowing agents.

Free of trans-1,2-Dichloroethene, TDCE, 1,2-Dichloroethene, 1,2-DCE, and trans-dichloroethylene.

* + - 1. Description: Two-component, HFO blown, Closed-Cell Spray Polyurethane Foam: ASTM C1029, Type II
		1. Basis of Design: SealTite PRO One Zero; as manufactured by Carlisle Spray Foam Insulation.
			1. Performance and Design Requirements:
				1. Standards Compliance:

Acceptance Criteria: ICC-ES AC377

Evaluation Report: IAPMO UES-640.

Greenguard Gold.

* + - * 1. Air Leakage Rate, ASTM E2178: Less than 0.004 cfm per sq ft (0.02 L per sec per sq m) at 1 inch (25 mm).
				2. Moisture Vapor Transmission, Permeance, ASTM E96 (Dessicant Method):

Thickness, 1 inch (25 mm): 0.80 perm.

* + - * 1. Core Density, ASTM D1622: 2.0 pcf (32 kg per cu m), nominal.
				2. R-Value, Aged, ASTM C518:

Thickness, 1 inch (25 mm): 6.9.

Thickness, 3.5 inches (76 mm): 24

Thickness, 5.5 inches (140 mm): 38.

* + - * 1. Compressive Strength, ASTM D1621: 47 psi (324 kPa), nominal.
				2. Tensile Strength, ASTM D1623: 60 psi (414 kPa), nominal.
				3. Water Absorption, ASTM D2842: Less than 2 percent.
				4. Dimensional Stability, ASTM D2126, Change in Volume: Less than 9 percent.
				5. Closed Cell Content, ASTM D2856: Greater than 90 percent.
				6. Surface Burning Characteristics, ASTM E84, 4 Inches (102 mm):

Flame Spread Index: Less than 25.

Smoke Developed Index: Less than 450.

* + - * 1. Compliance with State Environmental Regulations.

Global Warming Potential: Less than or equal to two (2).

Ozone Depletion Potential: Zero (0).

* + - * 1. Toxicity and Hazardous Materials.

Product containing no added urea-formaldehyde.

PBDE-free product.

Free of flammable blowing agents.

Free of trans-1,2-Dichloroethene, TDCE, 1,2-Dichloroethene, 1,2-DCE, and trans-dichloroethylene.

* + - 1. Description: Two-component, HFO blown, Closed-Cell Spray Polyurethane Foam: ASTM C1029, Type II
	1. OPEN-CELL, SPRAY-APPLIED, POLYURETHANE FOAM INSULATION

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Basis of Design: SealTite PRO Open Cell; as manufactured by Carlisle Spray Foam Insulation.
			1. Performance and Design Requirements:
				1. Standards Compliance:

Acceptance Criteria: ICC-ES AC377.

Evaluation Report: IAPMO UES-624.

Greenguard Certified.

* + - * 1. Air Leakage Rate, ASTM E2178: Less than 0.004 cfm per sq ft (0.02 L per sec per sq m) at 3.5 inches (76 mm).
				2. Moisture Vapor Transmission, Permeance at 1 inch (25 mm), ASTM E96: 21 perm.
				3. Core Density, ASTM D1622: 0.5 pcf (8 kg per cu m), nominal.
				4. R-Value, Aged, ASTM C518:

Thickness, 1 inch (25 mm): 3.7.

Thickness, 3.5 inches (89 mm): 13.

* + - * 1. Tensile Strength, ASTM D1623: Less than 3.0 psi (21 kPa), nominal.
				2. Dimensional Stability, ASTM D2126, Change in Volume: Less than 15 percent.
				3. Open Cell Content, ASTM D2856: Greater than 90 percent.
				4. Surface Burning Characteristics, ASTM E84, 4 Inches (102 mm):

Flame Spread Index: Less than 25.

Smoke Developed Index: Less than 450.

* + - 1. Description: Two-component, light-density, one to one by volume system.
		1. Basis of Design: SealTite PRO OCX; as manufactured by Carlisle Spray Foam Insulation.
			1. Performance and Design Requirements:
				1. Standards Compliance:

Acceptance Criteria: ICC-ES AC377

Evaluation Report: IAPMO UES-615.

Greenguard Certified.

* + - * 1. Air Leakage Rate, ASTM E2178: Less than 0.004 cfm per sq ft (0.02 L per sec per sq m) at 3.5 inches (76 mm).
				2. Core Density, ASTM D1622: 0.5 pcf (8 kg per cu m), nominal.
				3. R-Value, Aged at 1 inch (25 mm), ASTM C518: 3.7.
				4. Tensile Strength, ASTM D1623: 3.71 psi (21.4 kPa), nominal.
				5. Dimensional Stability, ASTM D2126, Change in Volume: Less than 15 percent.
				6. Sound Transmission Coefficient, ASTM E90: 50.
				7. Open Cell Content, ASTM D6226: Greater than 95 percent.
				8. Surface Burning Characteristics, ASTM E84:

Flame Spread Index: 0.

Smoke Developed Index: Less than 300.

* + - 1. Description: Two-component, light-density, one to one by volume system.
		1. Basis of Design: SealTite PRO No Trim 21; as manufactured by Carlisle Spray Foam Insulation.
			1. Performance and Design Requirements:
				1. Standards Compliance:

Acceptance Criteria: ICC-ES AC377

Evaluation Report: IAPMO UES-618.

Greenguard Certified.

* + - * 1. Air Leakage Rate, ASTM E2178: Less than 0.004 cfm per sq ft (0.02 L per sec per sq m) at 3.5 inches (76 mm).
				2. Moisture Vapor Transmission, Permeance at 1 inch (25 mm), ASTM E96: 15 perm.
				3. Core Density, ASTM D1622: 0.75 pcf (12 kg per cu m), nominal.
				4. R-Value, Aged, ASTM C518:

Thickness, 1 inch (25 mm): 4.4.

Thickness, 3.5 inches (89 mm): 15.

Thickness, 5 inches (127 mm): 21.

* + - * 1. Tensile Strength, ASTM D1623: 4.7 psi (32 kPa), nominal.
				2. Dimensional Stability, ASTM D2126, Change in Volume: Less than 4 percent.
				3. Open Cell Content, ASTM D6226: Greater than 97 percent.
				4. Surface Burning Characteristics, ASTM E84:

Flame Spread Index: Less than 25.

Smoke Developed Index: Less than 450.

* + - 1. Description: Two-component, light-density, one to one by volume system.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. ACCESSORlES

\*\* NOTE TO SPECIFIER \*\* Consult Manufacturer for substrate conditions requiring application of a primer. Delete if not required.

* + 1. Primer: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Include water vapor retarder coating if required. Delete if not required.

* + 1. Class II Water Vapor Retarder Coating: SealTite PRO VRC-2 as manufactured by Carlisle Spray Foam Insulation

\*\* NOTE TO SPECIFIER \*\* Include intumescent coating if required. Delete options not required.

* + 1. Intumescent Coating: DC315 as manufactured by International Fireproof Technology, Inc.
		2. Intumescent Coating: Fireshell BMS TC as manufactured by TPR Corporation.
		3. Intumescent Coating: No-Burn Plus ThB as manufactured by No-Burn, Inc.
		4. Intumescent Coating: Specified in 09960.
1. EXECUTION
	1. EXAMINATION
		1. Examine areas to receive polyurethane foam insulation.
		2. Notify Architect of conditions that would adversely affect application.
		3. Do not begin surface preparation or application until unacceptable conditions are corrected.
	2. PREPARATION
		1. Protection of In-Place Conditions:
			1. Protect adjacent surfaces from contact with overspray.
			2. Protect electrical outlet and junction boxes from contact with polyurethane foam insulation.
		2. Surface Preparation:
			1. Prepare surfaces in accordance with manufacturer's instructions.
			2. Remove dirt, dust, debris, oil, grease, rust, loose scale, ice, frost, moisture, and other surface contaminants which could adversely affect application of polyurethane foam insulation.
	3. INSTALLATION
		1. Spray-apply polyurethane foam insulation in accordance with manufacturer's instructions at locations indicated on the Drawings.
		2. Material Temperature: Maintain materials in containers at 65 to 85 degrees F (18 to 29 degrees C) while in use.
		3. Ensure substrates are dry during application.
			1. Total Thickness: Indicated on the Drawings.
		4. Apply polyurethane foam insulation to uniform thickness without voids, pinholes, cracks, and crevices.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Intumescent Coating:
			1. Cover polyurethane foam insulation with intumescent coating at locations indicated on the Drawings.
			2. Apply intumescent coating as specified in Section 09 96 13 - Abrasion-Resistant Coatings.
	1. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Modify as required.

* + 1. Inspect completed application of polyurethane foam insulation, including:
			1. Total thickness.
			2. Free of voids, pinholes, cracks, and crevices.
			3. Adhesion to substrate.
	1. CLEANING AND PROTECTION
		1. Promptly clean surfaces that receive overspray of polyurethane foam insulation.
		2. Do not use harsh cleaning materials or methods that could damage surfaces.
		3. Protect Work of this Section from damage during construction.

END OF SECTION