



AMERICAN ROCKWOOL MANUFACTURING, LLC
Manufacturer of Premium Rockwool Products

Insulation * Acoustical * Cryogenic * Horticultural Wools

OVERHEAD (O/H) WITH ADHESIVE

PART 1 – GENERAL

1.1 RELATED WORK AND SECTIONS

- A. American Rockwool Manufacturing provides spray applied Rockwool Premium Plus O/H insulation systems that can be applied in a high-density application using a commercial pneumatic blowing machine.

1.2 WORK INCLUDED: Provide all labor, materials and equipment necessary to provide a complete installed application of spray applied Rockwool Premium Plus O/H.

1.3 QUALIFICATIONS OF APPLICATORS: All applicators performing the work of this section must be approved by the manufacturer of Rockwool Premium Plus O/H and shall also have been in business a minimum of three (3) years. Individual installers must have attended training provided by the manufacturer.

1.4 SAMPLE/MOCK-UP: If requested, provide individual product samples or provide a product mock-up that will be a representation of the finished installation.

1.5 MANUFACTURER'S LITERATURE: Copies of the manufacturer's literature, clearly indicating conditions of acceptance and methods of applications shall be available on site before, and during, the period of installation of work of this section.

1.6 DELIVERY: Materials must be delivered to the site in original labeled and unopened packages. Storage and temperature restrictions shall be followed.

1.7 STORAGE: Storage and temperature restrictions shall be followed. Materials to be stored on site in a dry place. Rockwool Premium Plus O/H Adhesive must be kept from freezing at all times.

1.8 ENVIRONMENTAL CONDITIONS

- A. Work in this section shall only be performed under the conditions stated in the manufacturer's printed application instructions.
- B. Sufficient heat and ventilation must be provided at all times during installation and drying of spray insulation according to manufacturer's printed instructions.

1.9 PATCHING: All patching and repairing of sprayed thermal insulation due to cutting by other trades shall be performed under this section and will be paid for by the trade performing the cutting.

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1.10 PROTECTION

- A. Provide adequate protection to adjacent surfaces from being sprayed by means of drop cloths or polyethylene sheets with necessary taping.
- B. Close off and seal any ductwork in areas where Rockwool Premium Plus O/H is being applied.

1.11 MANUFACTURER’S REPRESENTATIVE: Allow the manufacturer’s representative full access to the site.

PART 2 – MATERIALS

2.1 MATERIALS

- A. Material shall be Rockwool Premium Plus O/H with NO substitutions.
- B. Adhesive shall be FST Overhead Adhesive with NO substitutions allowed.
- C. Rockwool Premium Plus O/H will meet the following standard compliances:

PROPERTIES	TEST METHOD	RESULTS
Fire Hazard Classification	ASTM E84	Flame Spread: 0 Smoke Development: 0 Fuel Contribution: 0
Non-Combustibility	ASTM E136	Non-Combustible
Air Erosion	ASTM E859	.01 gram loss over 24 hr. period
Adhesion / Cohesion	ASTM E736	Minimum 200 psf
Deflection	ASTM E759	Pass
Moisture Absorption	ASTM E553	Pass
Thermal Conductivity	ASTM C518	R-Value/inch = 4.14
Noise Reduction Coefficient	ASTM C423	NRC = .85 @ 1.5” on solid backing
Mold and Fungus Resistance	ASTM 1338	Pass

PART 3 – EXECUTION

3.1 EXAMINATION: Examine all surfaces and conditions to which the material is to be applied. Ensure the surface is adequate to provide a satisfactory application of

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Rockwool Premium Plus O/H. Report any deficiencies to the designated authority and manufacturer for approval.

3.2 PREPARATION:

- A. All surfaces where Rockwool Premium Plus O/H is to be installed shall be free of oils, loose paint/primers, dust, dirt, foreign materials, etc. These contaminants will create a false bond or staining of insulation. Clean and seal as required. Report unsatisfactory conditions in writing. DO NOT proceed until acceptable conditions are achieved.
- B. All surfaces shall be an acceptable temperature for application (Above 40° F) Report unsatisfactory substrate temperatures in writing. DO NOT proceed until acceptable conditions are achieved.
- C. Perform test spray to verify bond requirements and compatibility of all surfaces to receive installation of Rockwool Premium Plus O/H.
- D. Project Schedule: Ensure that all ducts, piping, equipment, or other items, which would interfere with application of Rockwool Premium Plus O/H are not positioned until Rockwool Premium Plus O/H installation is complete. If this is not possible, consult with manufacturer to identify proper installation techniques to address these areas.

3.3 APPLICATION

- A. Install Rockwool Premium Plus O/H in strict accordance with manufacturer's guidelines.
- B. Apply Rockwool Premium Plus O/H to the substrate as specified in the site drawings. Apply Rockwool Premium Plus O/H to a maximum 3" at a nominal density of 5 - 6 pcf.
- C. Rockwool Premium Plus O/H Adhesive temperature should be between 60 - 80° F. Failure to do so could impact yields and product adhesion ratings.

3.4 EQUIPMENT

- A. Fiber blowing Machines: Machine must be capable of generating satisfactory air volume to move the conditioned Rockwool Premium Plus O/H through the size and length of hose (3" x 150').
- B. The selected machine must be able to produce a product/air volume needed to move the required amount of material (1.5 psi minimum air pressure at the end of 3" x 150' hose).
- C. Operate the fiber-blowing machine in accordance with the manufacturer's instructions.
- D. Adhesive Pumps must be capable of 200 psi with a flow rate to meet the manufacturer's recommended flow rate of .22 gpm utilizing a 3" 2 jet spray nozzle equipped with 400050 stainless steel spray tips with 100 mesh strainers installed inside each tip to prevent clogging .

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- E. Proper equipment to adequately heat/cool adhesive to a temperature range of 60 - 80° F. Failure to do so could impact adhesion and desired product yield.

3.5 CLEAN-UP AND PROTECTION

- A. Remove Rockwool Premium Plus O/H from surfaces where overspray may have occurred at the end of each workday. Failure to do so will result in increased difficulty once material has properly cured.
- B. Proper protection of any interior conditions is recommended. Removal of protection and cleanup shall take place once all final materials have been installed, including coloring if required.
- C. Proper protection of finished product shall be required. This includes minimizing vibration or traffic for a period of (48) hours to all areas where material was installed.

- 3.6 OPTIONS: ProCoustic Acoustical Coating; each shall be installed per manufacturers instructions.**

END OF SECTION