



Altro Whiterock
Commercial Vinyl Wall Covering
SECTION 09 72 16.16
RIGID-SHEET VINYL WALL COVERING
(Commercial Vinyl Wall Covering)

PART 1 GENERAL

Specifier Note: List significant generic types of products, work or requirements

1.01 SECTION INCLUDES

- A. This section includes labor, materials and other services necessary to complete vinyl wall coverings.
- B. Conform with requirements of all Sections of Division 1, General Requirements, as it applies to the work of this Section.

1.02 RELATED SECTIONS

Specifier Note: List statements that draw the reader's attention to other specification sections dealing with work directly related to this section.

- A. Section 03300 - Cast-in-Place Concrete: Concrete finishing.
- B. Section 06100 - Rough Carpentry: Plywood floor sheathing.
- C. Division 7 - Thermal and Moisture Protection.
- D. Division 15 - Mechanical.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This Article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

1.03 REFERENCES

- A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.
- B. American Society for Testing & Materials (ASTM):
 - 1. AST ASTM E 84-05 Standard Test Method for Surface Burning Characteristics of Building



- 2. Materials. CLASS A
ASTM D5420 Gardner Impact Exceeds 160 inch pounds

1.04 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide hygienic Altro Whiterock wall covering which has been manufactured by Altro and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

1.05 SUBMITTALS

Specifier Note: Include requests for relevant data to be furnished by the contractor, before during or after construction.

- A. Product Data: Submit manufacturer’s current printed product literature, specifications, installation instructions, and field reports in accordance with Section 01330 - Submittal Procedures.
- B. Shop Drawings: Submit shop drawings to indicate materials, details, and accessories in accordance with Section 01330 - Submittal Procedures including but limited to the following:
 - 1. Submit a layout diagram indicating the location of each panel and joining method.
- C. Samples: Submit duplicate sample pieces of Altro Whiterock material, as well as accessory pieces in accordance with Section 01330 - Submittal Procedures.
- D. Quality Assurance Submittals: Submit the following:
 - 1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
 - 2. Manufacturer’s Instructions: Current published manufacturer’s installation and maintenance instructions.

Specifier Note: Coordinate paragraph below with Part 3 Field Quality Requirements Article herein. Retain or delete as applicable.

- 3. Manufacturer’s Field Reports: Specified herein.
- E. Closeout Submittals: Submit the following:
 - 1. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 1 Closeout Submittals (Maintenance Data and Operation Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
 - 2. Warranty: Warranty documents specified herein.

Specifier Note: This Article should include standards, limitations and criteria which establish an overall level of quality for products and workmanship for this section. Coordinate with Section 01430 - Quality Assurance.

1.06 QUALITY ASSURANCE



- A. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - 1. Training: Installer who has attended an Altro Whiterock installation training clinic.

Specifier Note: Retain paragraph below for erected assemblies required for review of construction, coordination of work of several sections, testing or observation of operation.

- B. Mock-ups: Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Consultant's acceptance of finish color, texture and pattern, and workmanship standards.

Specifier Note: Edit paragraph below to specifying mock-up size.

- 1. Mock-Up Size: [Specify mock-up size].
- 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
- 3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.

Specifier Note: Describe requirements for meetings to coordinate materials and techniques, and to sequence related work.

- C. Pre-installation Meeting: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements.

Specifier Note: This Article should include special and unique requirements. Coordinate with Sections 01650 - Product Delivery Requirements or Section 01660 - Product Storage and Handling Requirements.

1.07 DELIVERY, STORAGE & HANDLING

- A. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- B. Deliver, store and handle Altro Whiterock wall panels in accordance with Section 01610 - Basic Material Requirements.
- C. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer.
- E. Store panels in temperature controlled environments. Leave protective blue film on panel until ready to use.



1.08 WASTE MANAGEMENT AND DISPOSAL

Specifier Note: Include information that will assist the contractor in dealing with the disposal of construction waste materials in ways other than using landfill resources.

- A. Deposit all packaging materials in appropriate container on site for recycling or reuse.
- B. Avoid using landfill waste disposal procedures when recycling facilities are available.
- C. Keep all discarded packaging away from children.

1.09 PROJECT CONDITIONS

- A. Temperature Requirements: If storage temperature is below 65F (18C), the Altro Whiterock wall panel must be moved to a warmer place and allowed to reach this temperature before installation. For further information, refer to current Installation Guide.
- B. Maintain air temperature and structural base temperature at installation area between 65F (18C) and 80F (26C) for 48 hours before, during and 24 hours after installation.

Specifier Note: Coordinate Article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section.

1.10 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

Specifier Note: Coordinate paragraph below with manufacturer's warranty requirements. All Altro walling products are sold with a limited product warranty. The length of warranty is defined by the manufacturing process, the thickness of the product and the expected conditions for the specific product. Under normal use and service, Altro walling products are warranted to be free from defects in materials and workmanship within the specified term after the installation date, when installed and maintained in accordance with Altro's recommendations. Altro Whiterock has a 20-Year warranty.

- C. Warranty Period for Altro Whiterock shall be 20 years commencing on Date of Substantial Completion.

1.11 EXTRA MATERIALS

- A. Provide extra materials of product and adhesives in accordance with Section 01780 - Closeout Submittals.
- B. Provide [_____] sq.ft ([_____] m2) of each color, pattern and type material required for project for maintenance use.



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- C. Provide [] sq.ft ([] m2) of extra materials in one piece and from same production run as installed materials.
- D. Clearly identify each wall panel and each container of adhesive.
- E. Deliver to Consultant, upon completion of the work of this section and store where directed.

PART 2 PRODUCTS

Specifier Note: For information on Altro Whiterock hygienic wall system, contact Altro directly to obtain information and assistance.

2.01 MANUFACTURERS

- A. Manufacturer: Altro
 - 1. USA: 80 Industrial Way, Wilmington, MA 01887
Toll-free: 800.377.5597 Fax: 978.694.0433
 - 3. E-mail: support@altrofloors.com Web Site: www.altrofloors.com.

2.02 HYGIENIC WALL COVERINGS

Specifier Note: Select material to suit project requirements.

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- A. Altro Whiterock™ is 100% pure vinyl, extruded, semi-rigid PVCu sheet. Altro Whiterock contains no plasticizers or fillers. Altro Whiterock is homogenous.
- B. Acceptable material: Altro Whiterock™ (measurements and product weights given below are approximate):
 - 1. Standard White 3 / 4: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
 - 2. Cream / Linen 41: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
 - 3. Champagne / Oyster 32: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
 - 4. Praline / Fenland 219: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
 - 5. Sage / Promenade 212: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).



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6. Lagoon / Flint 201: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
7. Snowdrift / Ice 44: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
8. Sapling / Seafoam 43: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
9. Jasmine / Cesco 53: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
10. Ghost / Echo 208: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
11. Platinum / Urban 210: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
12. Mocha / Fawn 206: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
13. Mint 203: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
14. Ozone 211: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
15. Vibrance 213: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
16. Olea 218: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
17. Bergamot 220: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
18. Zandra 217: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
19. Viola 214: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9'



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- 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).
20. Scarlett 221: Thickness: 0.10" (2.5 mm); Panel Width: 4' (1.22m) Panel Height: Either 8'2" or 9' 10.25" (2.5m or 3m); Weight 4'x8'2" Panel: 24 lbs (10.7 kg) Weight 4'x9' 10.25" Panel: 28 lbs (12.8 kg).

2.03 ACCESSORIES

- A. Vinyl welding rod: Acceptable material:
1. Altro weld rod – WSR01 White, WSR/** color
- B. Joint Strips:
1. 1-Part Joint Strip – [G831/25 White] Length 98.5"
 2. 1-Part Joint Strip – [G831/30 White] Length 118"
 3. 2-Part Joint Strip – [A831/25 White] [A831/25/** color] Length 98.5"
 4. 2-Part Joint Strip – [A831/30 White] [A831/30/** color] Length 118"
- C. Cut-Tile Transition Strips:
1. 1-Part Transition Strip – [G832/25 White] Length 98.5"
 2. 2-Part Joint Strip – [A832/25 White] [G831/30/** color] Length 98.5"
 3. C4 CAP Strip – [C4 CAP White] Length 72"
- D. Start and Edge Trim:
1. 1-Part Start and Edge Trim – [G833/25 White] Length 98.5"
 2. 1-Part Start and Edge Trim – [G833/30 White] Length 118"
 3. 2-Part Start and Edge Trim – [A833/25 White] [A833/25/** color] Length 98.5"
 4. 2-Part Start and Edge Trim – [A833/30 White] [A833/30/** color] Length 118"
- E. Stainless Steel Accessories:
1. Stainless Steel Corner Protector – [A861/12 Brushed Steel] Dimensions: 4' x 3" x 3"
 2. 1-Part Stainless Steel Joint Strip – [A855 Brushed Steel] Length 7'
 3. Stainless Steel Capping – [A865 Brushed Steel] Length 8'
 4. 18 Gauge Stainless Steel 304 Sheet – [W123/20 Brushed Steel] 6'6" X3'3"
 5. 18 Gauge Stainless Steel 304 Sheet – [W123/25 Brushed Steel] 8'2" X4'
- F. Acrylic Adhesive: For dry, climate controlled areas, use AltroFix W157, a one-part, water-based, acrylic adhesive as recommended by manufacturer.
- G. Polyurethane Adhesive: The default adhesive for most installations, suitable for wet area, non-climate controlled areas, and non-absorbent surfaces, use AltroFix W39, a two-part resin-based polyurethane adhesive as recommended by manufacturer.
- H. Caulking and Sanitary Sealant Sealant Compounds and Tools:
1. Altro Sanitary Sealant Sealant – [A802 White, A803 Clear, A806/** color] 10.5 oz Tube

2.04 SOURCE QUALITY

- A. Source Quality: Obtain wall products from a single manufacturer.



PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog, installation instructions and product label instructions for installation.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 SUBSTRATE PREPARATION

- A. Walls should be smooth and level. High points must be removed and low points filled with filler intended for the substrate and environmental conditions.
- B. Wall tiles must be fixed firmly to the wall. As long as the tile edges do not protrude you do not have to skim grout joints.
- C. Surfaces must be permanently dry and free from all substances that may contribute to adhesive bond failure.
- D. Remove loose paint and conduct an adhesive bond test with paint.
- E. Exterior walls must be adequately damp-proofed and insulated.
- F. Dry wall substrates should be paint ready.

3.04 PREPARATION

- A. All surfaces must be free from dust and cleaned prior to Altro Whiterock installation. The working environment must also be dust free. Failure to comply with these conditions will reduce the bond strength between the adhesive and substrate, and may cause the Altro Whiterock panels to debond.
- B. Very absorbent / porous substrates (particularly plaster finishes and unprimed sheetrock) must have a proprietary sealer e.g. PVA primer or similar, applied to the surface a minimum of 12 hours prior to the installation.
- C. All electrical switches, power points etc., should be in a first fix / installation state. All electrical equipment should only be moved or altered by a qualified electrician.
- D. All plumbing should have pipe-work removed to a first fix or installation state and "tails" left protruding from the substrate. Altro Whiterock panels can then be drilled and slid over the pipe tails. All holes should be drilled 1/8" (3mm) oversize to allow for expansion, then sealed with Altro Sanitary Sealant. Plumbing should always be done by a qualified plumber.
- E. Hot pipes and steam pipes should be insulated and a 1/8" to 1/4" (3-6mm) expansion gap should be created when installing panels around these pipes, then sealed with Altro Sanitary Sealant.
- F. All pipes, fixing bolts, etc. extending through the Altro Whiterock panels should have a minimum 1/8"



(3mm) expansion gap and be sealed using Altro Sanitary Sealant.

- G. If fitting to door frames, these must be in place prior to installation of Altro Whiterock.
- H. Prior to installation, it is advisable to complete any painting which comes in contact with Altro Whiterock, as sealant used at junctions is non-paintable.
- I. Panels should be stored flat and be pre-conditioned a minimum of 24 hours in ambient temperatures similar to the prevailing operational conditions.
- J. The panels must be stored on a level flat surface off the ground (risk of condensation on the panels if stored on damp surfaces). Storage on uneven surfaces could cause the panels to distort prior to installation.
- K. First, check the room using a 6' (2 m) level to ensure all walls are flat, paying particular attention to the corners, window reveals, and door entrances. These need to be inspected to ensure they are free of any debris or irregularities, which could prevent the panels laying flat to the substrate after the adhesive has been applied and the panel installed.

Specifier Note: Coordinate Article below with manufacturer's recommended installation details and requirements.

3.05 INSTALLATION

- A. Hygienic Wall Installation: Install Altro Whiterock in accordance with the current published Altro Installation Guide. All joints should be joined by approved methods as detailed in the installation guide. Failure to install Altro Whiterock in accordance with recommended procedures will void the Altro Limited Product Warranty.

Specifier Note: Coordinate Article below with Division 1 Quality Assurance and Quality Control Sections.

3.06 FIELD QUALITY REQUIREMENTS

Specifier Note: Establish number and duration of periodic site visits with Owner and manufacturer, and specify below. Consult with manufacturer for services required. Coordinate paragraph below with Division 1 Quality Assurance Section and Part 1 Quality Assurance Submittals herein. Delete if manufacturer's field service not required.

- A. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.
 - 1. Site Visits: [Specify number and duration of periodic site visits].

3.07 CLEANING



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Specifier Note: Once all panels and joints are installed, remove protective film and clean all surfaces down with antistatic solution or antistatic wipes. This is required as the panel may have static build up and any dust in the atmosphere will adhere to the surface of the panel.

- A. Altro Whiterock can be cleaned with a diluted soap/detergent solution, such as Altro 44 Cleaner.
- B. When cleaning the Altro Whiterock surface, we recommend the temperature of water does not exceed 140° F (60° C).
- C. Pressure cleaning with hot water may be used with the pressure nozzle a minimum of 2 feet (600mm) away from the surface.
- D. To reduce the buildup of static, cleaning the panels with an anti-static solution is recommended.
- E. Stubborn stains use AltroClean 44 cleaner or equivalent alkaline cleaner.

Specifier Note: If a construction waste separation and disposal workplan is incorporated as part of the project, ensure that this section makes reference to how the excess material can be recycled or otherwise disposed of. Avoid sending construction waste to landfill sites if alternative means of disposal are available.

- 6. Remove construction debris from project site and legally dispose of debris.

3.08 PROTECTION

- A. Do not install near open heat sources (ovens, etc). Stainless steel panels should be used in such areas.

END OF SECTION