NBS M50
ALTRO WHITEROCK VANTAGE (ALTRO 2.5mm UPVC WALL CLADDING SHEET)

TYPE(S) OF COVERING

110 PVCu LININGS TO WALLS:

- Project:
- Location:
- Substrate:
- Preparation:
- Sheet: Extruded semi-rigid co-extruded PVCu sheet, EU Grade
- Maximum service temp: 60°C
- Fire rating: EN13501-1 B-s3, d0
- Manufacturer / Product reference:
  Altro Whiterock™ Vantage 107/W108
  hygienic wall cladding by Altro Limited,
  telephone +44(0)1462 707600,
  fax +44 (0)1462 707515, email enquiries@altro.com
- Width: 1220 mm
- Length: 2500mm (W107), 3000mm (W108)
- Thickness: 2.5 mm
- Surface finish: Satin
- Colour: White
- Light reflectance values: 81 (ask for details)
- Adhesive: AltroFix™ W139
- Joints**:**
- Accessories
- Maintenance and finishing:
- Special requirements:

This specification, in whatever format, is only valid if it is a true copy of the filed paper copy held by Altro. If you are in any doubt as to the authenticity of the copy you hold, please ask for verification.

GENERALLY

210 WORKMANSHIP GENERALLY:
- All bases must be rigid, dry, sound, smooth and free from grease, dirt and other contaminants before coverings are applied.
- Finished coverings must be accurately fitted, jointed as per manufacturer's instructions, securely bonded, smooth and free from air bubbles, rippling, adhesive marks and stains.

220 SAMPLES:
- Before placing orders, submit for approval a representative sample of each type of covering. Ensure that delivered materials match samples.

230 CONTROL SAMPLE(S): Complete area(s) of the finished work in approved location(s) as follows, and obtain approval of appearance before proceeding:

_____
_____
_____

251 LAYOUT:
- Set out sheet coverings so that joints are kept to a minimum.
- Internal and external corners to be thermoformed onsite, limiting the number of joints required.

310 MARKING:
- Ensure that materials are delivered to site in original packing, clearly marked with batch number.

320 STORAGE:

- Store materials in a clean, warm, dry, well-ventilated place. Keep in original packing until conditioning commences.

330 COMMENCEMENT:

- Do not lay materials until building is weather tight, wet trades have finished their work, the building is well dried out, all paintwork is finished and dry, conflicting overhead work completed, and service outlets, duct covers and other fixtures around which the materials are to be cut have been fixed. Inform CA not less than 48 hours before commencing fitting.

340 CONDITIONING:

- Sheets should be stored flat, fully supported and left for 24 hours to attain the ambient room temperature prior to installation (min 14°C). Minimum conditioning time to be increased by a factor of 2 for materials stored or transported at a temperature of less than 10^0C immediately prior to installing.

350 Environment: General

- Before during and after laying, provide adequate ventilation and maintain temperature and humidity approximately at levels which will prevail after the building is being occupied.

350 Environment: Heat

Areas where open cooking or open flame equipment is being used should comply with the following:

- Altro Whiterock panels once installed should not be exposed to temperatures above 60 degrees Centigrade.
- Before the testing of Kitchen equipment which is likely to expel severe heat, extraction systems must be operational. Failure to do so may result in expansion problems.
- With the construction of a dry wall system in a kitchen area or where the area has been adapted to form a wall behind cooking ranges. Altro Walls recommends the substrate or dry wall lining should be constructed with a Calcium Silica board. Stainless steel panels should then be used to clad these areas.
- Hot pipes and steam pipes should be insulated and a 3-5mm expansion gap should be created when installing panels around these pipes.

PREPARING SUBSTRATES

410 SUITABILITY OF NEW SUBSTRATES AND CONDITIONS: Fitting of coverings will be taken as joint acceptance by the Main Contractor and Subcontractor of the suitability of the substrates and conditions within any given area.

420 SUITABILITY OF EXISTING SUBSTRATES AND CONDITIONS:

- Before commencing work the subcontractor must confirm (through the Main Contractor) that existing substrates will, after the specified preparation, be suitable to receive the specified coverings.
- Fitting of coverings will be taken as further acceptance of the suitability of the bases and also of the conditions within any given area.

430 DAMPNESS: Where linings are to be fitted on new wet-laid substrates:

- All substrates to be dried to minimum of 16% WME (Wood Moisture Equivalent) on Protimeter 'Surveymaster' equipment or similar.
- Take readings in all corners, along edges, and at various points over the area being tested.

440 SUITABLE SUBSTRATES: GENERAL

The specifications for finishes to receive PVCu wall cladding require:

- Good quality fairfaced brick or blockwork. Well aligned joints bagged up flush. Straight to within 3mm over a 2m straight edge and bricks/blocks flush with ones adjacent.
- Sand & cement rendering 1:3 to steel trowel finish.
- 12.5mm thick plasterboard. (do not seal with sealers as for decorating). If wall is affords fire protection ensure joints between plasterboard sheets filled with

appropriate fillers.
- Minimum 9mm W.B.P. resin bonded plywood fixed at 200mm centres to suitable studwork or direct to solid substrate.
- Minimum 9mm MDF dense wood based panels fixed at 200mm centres to suitable studwork, or direct to solid substrate.
- Ceramic tiles which are clean and securely bonded to substrate.
- Certain sound painted surfaces (an adhesive test is advisable to ascertain compatibility).
- Plastered surfaces - finished with steel trowel. (pink lightweight plasters generally not suitable).
- Porous surfaces to be thoroughly sealed with diluted PVA applied to the surface 12 hours prior to the installation. The sealer should be used in a diluted ratio of 1:10. Alternatively use Altro Primer Seal Ref: AGCPNF/01

440A SUITABLE SUBSTRATES - WELDED FINISH:
- Surface straight to within 3mm over a 2m straight edge.
- Sand & cement rendering 1:3 to steel trowel finish.
- 12.5mm thick plasterboard. (do not seal with sealers as for decorating). If wall is affords fire protection ensure joints between plasterboard sheets filled with appropriate fillers.
- Minimum 9mm W.B.P. resin bonded plywood fixed at 200mm centres to suitable studwork or direct to solid substrate.
- Minimum 9mm MDF dense wood based panels fixed at 200mm centres to suitable studwork or direct to solid substrate.
- Ceramic tiles which are clean securely bonded to the substrate and are level and true without any undulations or raised edges
- Certain sound painted surfaces (an adhesive test is advisable to ascertain compatibility).
- Plastered surfaces - finished with steel trowel. (pink lightweight plasters generally not suitable).
- Porous surfaces to be thoroughly sealed with diluted PVA applied to the surface 12 hours prior to the installation. The sealer should be used in a diluted ratio of 1:10. Alternatively use Altro Primer Seal Ref: AGCPNF/01

470 SUBSTRATE PREPARATION - EXISTING WALL FINISH TO BE REMOVED:
- All loose paint and dust to be removed.
- Friable surfaces should be removed or made sound.
  (Please consult Altro regarding approved sealing treatments)
- Make good as needed by local patching or filling with a repair mortar or sand and cement with Unibond mix, to give a smooth, even surface.
- Straight to within 3mm over a 2m straight edge

480 EXISTING WALL FINISH TO BE OVERLAID:
- Make good as needed by local patching or filling with a repair mortar or sand and cement with Unibond mix, to give a smooth, even surface.
- Ceramic tiles should be thoroughly degreased, using suitable degreasing agent and scouring pad, rinsed with clean water and allowed to dry. Tiles should be abraded with diamond disc and all dust removed. Loose tiles should be removed and the area made good using Ardurapid 45 repair mortar or sand and cement with Unibond mix, if drying time permits. Alternatively, suitable thickness WBP plywood, screwed and plugged, (maximum 200mm centres) may be used.

FITTING COVERINGS

640 ADHESIVE FIXING GENERALLY:
- Adhesive should not be stored at temperatures below 5°C.
- Recommended ambient temperature of 14°C / 57°F for all installation areas.
- Back of sheets to be cleaned prior to applying adhesive.
- Adhesive should be applied with the recommended notched trowel applicable to the adhesive selected.
- Apply firm even pressure with suitable roller to whole surface area of the panel as work proceeds, to ensure adequate adhesive transfer and good overall bond.
- Use Altro double sided tape Ref A815 or A915 (for welded system) as support whilst adhesive cures.

641A ADHESIVE FIXING – BY ALTROFIX W139:
- Use AltroFix W139 (Ref: A814) two-part polyurethane adhesive spread with a 5mm

square notched trowel (Ref: A860).
- On application immediately apply sheet to the wall.
- Support the panel on double sided tape (Ref: A815 or A915 or welded system) whilst adhesive cures (approx. 3-5 hours - full cure 24 hours).
- Support the panel on double sided tape (Ref: A815 or A915 or welded system) whilst adhesive cures. (can be 24hours and upwards)

NB. On completion, the installation should not be subject to an increase in ambient temperature to more than 30°C until the adhesive is fully cured. Full cure will be dependent on porosity of substrate.

680 SEAM WELDING COVERINGS:
- Do not commence welding of coverings until a minimum of 24 hours after fitting or until adhesive has completely set.
- Use Altro double sided tape (Ref: A915) applied to the wall bridging the joint to be welded. Bring the edges of the sheets to be welded together leaving a 1.5mm - 2mm gap between sheets. Hot weld using hot air welding gun and Altro Whiterock welding rod. Clean off flush with sheet face to form a neat, smooth, strongly bonded joint. Recommended tool is Mozart trimming knife.
    - See Altro Whiterock detail drawing W9.

731 SEALANT:
- Manufacturer and reference: Altro Whiterock silicone sealant (Ref: A802/VAN) contact Altro Limited, telephone +44(0)1462 707600, fax +44 (0)1462 707515, email enquiries@altro.com

740 EDGINGS/COVER STRIPS: ALTRO PVC JOINT STRIP
- All joints should be covered with high impact PVCu 'H' joint sections (Ref: A831 two-part joint trim
- Internal/external corners: Altro Whiterock to be thermoformed on-site as needed, so limiting the number of joints required.
- Vulnerable external corners are usually over-clad with stainless steel corner protectors, to a height of 1200mm.

740B EDGINGS/COVER STRIPS: ALTRO SILICONE JOINT
- Form a flush joint using a 3-4mm bead of Altro Whiterock silicone sealant. (Ref: A802/VAN).
- Internal/external corners: Altro Whiterock to be thermoformed on-site, so reducing the number of joints needed.
- Vulnerable external corners are usually over-clad with stainless steel corner protectors, to a height of 1200mm.

740C EDGINGS/COVER STRIPS: ACCESSORIES
- High impact PVCu two-part start and edge trim (Ref: A833)
- White powder coated aluminium 'H' joint sections (Ref: A854)
- White powder coated aluminium start and edge trim (Ref: A853).

773 ABUTMENTS: GENERAL
- To window frame, door frames, architraves, ceiling & quarry tile - seal with Altro Whiterock silicone sealant (Ref: A802/VAN) 3-4mm width joint.
    - See Altro Whiterock detail drawings W1, W2 and WF3.

773A ABUTMENTS: TREATMENT TO SERVICE PREPARATIONS
- All holes to be cut to allow 3-4mm silicone seal around all penetrations. seal with Altro Whiterock silicone sealant (Ref: A802/VAN).

773B ABUTMENTS: PVC FLOORING
- To PVC flooring with coved skirting - joint to be covered with high impact PVCu transition strip (Ref: A832 two-part trim).
    - Ask for Altro Whiterock detail drawing WF2.
- Alternatively use Altro concealed wall/floor transition strip with overlap detail (Ref G835 / 25) mechanically fixed or bonded to the wall with adhesive (Ref Altro AP600).
    - Ask for relevant Altro Whiterock detail drawing

773C ABUTMENTS: PVC FLOORING, SHOWER/WET AREAS
- To PVC flooring with coved skirting overlapped by 50mm with Altro Whiterock, close bottom of sheet with silicone (Ref: A803 clear).
    - Ask for Altro Whiterock detail drawing WF4.

773D ABUTMENTS: RESIN FLOORING:

- To resin flooring with coved skirting, close bottom of sheet with single part high impact PVCu trim section (Ref: G834)
  - Ask for Altro Whiterock detail drawing WF6.
- Alternatively, close bottom of sheet with high impact PVCu transition strip (Ref: A832 two-part trim) to resin cove upstand.
  - Ask for Altro Whiterock detail drawing WF5
- Alternatively cove resin skirting feather out to nothing overlap by minimum 50mm with Altro Whiterock seal out bottom edge of sheet with Altro clear silicone sealant (Ref A803)

773E ABUTMENTS: TO SHOWER TRAY

- Use Altro Shower trim (Ref A918 bedded onto wall and shower tray with Altro Adhesive (Ref AP600)
  - See Drawing WS3.

773F ABUTMENTS: TO SHOWER TRAY WITH INTEGRAL UPSTAND.

- Apply Altro Whiterock over upstand ensuring sheet adhered to upstand leave 3mm gap between bottom of sheet and tray. seal with Altro Silicone sealant (REF A802/VAN, A803)

COMPLETION

810 CLEANING GENERALLY:

- Remove all scrap, dust and dirt. Carefully remove adhesive and other marks from coverings and adjacent surfaces, using approved cleaning agents and methods.
- When cleaning the Whiterock surface, the temperature should not exceed 60 degrees Centigrade.
- Do not use cleaning materials of an abrasive nature
  - Contact Altro for detailed cleaning instructions: Altro Limited, tel: +44(0)1462 707600, email: enquiries@altro.com

821 FINISHING PVC WALL CLADDING:

- Protective film to be removed.
- When dry, apply antistatic solution to all surfaces (Ref: A809).

870 PROTECTION: If required, tape appropriate protective material to sheet ensuring compliance with surface spread of flame, as per Building Regulations.

880 WASTE RECYCLING: ALTRO RECOWALL™

- Clean, adhesive-free off-cuts to be removed from site and taken to an Altro Recowall collection points for recycling.
  - Contact Altro for further details of this scheme and the Recofloor flooring recycling scheme. Altro Limited, tel: +44(0)1462 707600, fax: +44 (0)1462 707515, email: enquiries@altro.com, website www.altro.com