

NBS M50
ALTRO WHITEROCK™ CEILING SYSTEM

TYPE(S) OF COVERING

110 PVCu LININGS TO CEILINGS
(using Altro P250 direct fix system)

- Project: _____
- Location: _____
- Substrate/Structural Soffit: _____
(Any ceiling substrate which provides a fixing point at maximum 600mm centres, eg timber joists, timber battens, PVCu battens, galvanised steel battens, or plasterboard which is mechanically fixed to joists).
- Preparation: _____
- Sheet: Extruded rigid PVCu boards, EU Grade
- Maximum service temp: 60°C
- Fire rating: BS 476 Part 7 (1987) surface spread of flame - Class 1
BS 476 Part 6 (1989) fire propagation - Class 0*
(*when fixed to a non-combustible substrate)
- Manufacturer / Product reference:
Altro Whiterock™ P250
hygienic ceiling system by **Altro Limited**,
Works Road, Letchworth Garden City, Herts, England SG6
1NW. Telephone +44(0)1462 707600, fax +44 (0)1462 707504,
email @altro.com
- Board Sizes: P250/60 6000mm x 250mm x 9mm
 P250/50 5000mm x 250mm x 9mm
 P250/40 4000mm x 250mm x 9mm
 P250/30 3000mm x 250mm x 9mm
- Colour: White
- Surface finish: Satin
- Accessories: _____
- 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.
- 251 LAYOUT: Set out sheet coverings so that joints are kept to a minimum.
- 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 install 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°C immediately prior to installing.
- 350 Environment: General
- Before during and after installation, provide adequate ventilation and maintain temperature and humidity approximately at levels which will prevail after the building is being occupied.
- 350A 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.
 - 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.
- 440 SUBSTRATE: Any ceiling substrate which provides a fixing point at maximum 600mm centres such as timber joists, timber battens, galvanised steel battens or plasterboard which is mechanically fixed to joists.

FITTING COVERINGS

640A METHOD OF FIXING - GENERAL

- Mechanically fix P259 PVCu trim to perimeter of ceiling with 13mm wafer head drill point screws (Ref: A611).
- Altro P250 PVCu ceiling boards mechanically fixed to suitable battens or joists with 13mm wafer head drill point screws (Ref: A611)
- Concrete soffits should be counter battened with galvanised steel battens (Ref: PMF6), or similar at a maximum of 600mm centres. Perimeter channels (Ref: PMF6) secured to the wall along perimeter line.

- Ask for Altro detailing diagram: CF6 and CF7

640B METHOD OF FIXING - PLASTERBOARD

- Mechanically fix P259 PVCu perimeter trim direct to underside of plasterboard using 25mm wafer head screws. Fix Altro P250PVCu ceiling boards direct to underside of plasterboard with 25mm wafer head screws, ensuring alignment with timber joists above. Slot the Altro P250 PVCu ceiling boards into P259 PVCu trim. Altro Whiterock PVCu wall cladding fixed behind PVCu trim and joint sealed with silicone sealant (A802/A806)

731 SEALANT:

- Manufacturer and reference: Altro Whiterock silicone sealant (Ref: A802 white) contact Altro Limited, telephone +44(0)1462 707600, fax +44 (0)1462 707515, email [@altro.com](mailto:)

- A substantial bed of Altro Whiterock sealant (Ref: A802) to be placed within the perimeter trim (Ref: P259) and any intermediate 'H' section

(Ref: P258) PVCu jointing trims as the work proceeds. The ends of the boards are pushed firmly into the sealant ensuring a complete seal.

740 ACCESSORIES

Where voids or cavities exist within the ceiling structure which allows for concealed lighting units or M & E services to be incorporated above the ceiling line, access panels and light diffusers can be installed within the ceiling system.

Access panels: constructed from P250 ceiling boards or Altro Whiterock PVCu panels bonded to 19mm plywood/masterboard, sealed in a white powder coated aluminium trim mechanically fixed through ceiling boards to the support structure above (Ref: A626) Ask for Altro detail drawings: CF2

Light Diffusers: Constructed from polycarbonate prismatic material secured in a white powder coated aluminium trim, mechanically fixed through ceiling boards to the support structure above (Ref: A621). Ask for Altro detail drawings: CF3

Coving detail: (A851) 2 part PVCu/Alloy coving, for secondary fixing to ceiling/wall junction. Mechanically fixed through alloy back plate to the substrate.

Bulkhead or boxing detail: internal and external angles formed with PVCu trims P255 or P257. Mechanically fixed with 13mm wafer head drill point screws. Ask for Altro detail drawing: CF8

Pliable joint section (Ref: P253) for finished junction of sloping/angled bulkheads. Fixed with AltroFix 25nf contact adhesive direct to P250 PVCu boards.

773 ABUTMENTS: GENERAL

To walls, wipe clean and seal with Altro Whiterock silicone sealant (Ref: A802)

773A ABUTMENTS: TREATMENT TO SERVICE PREPARATIONS

All holes to be cut to allow 3-4mm silicone seal around all penetrations. Clean with Altro cleaner (Ref: A810/ALU) and seal with Altro Whiterock silicone sealant (Ref: A802 white or A806 coloured).

774 SERVICE FITTINGS:

Sprinklers, luminaries, and air diffusers supplied by others, apertures for luminaries and air diffusers trimmed out with PVCu perimeter channel (Ref: P259). Altro PVCu ceiling boards ref: P250 cut out to suit apertures. Provisions of fixing points for surface mounted lighting should be attached to ceiling substrate.

821A FINISHING:

Wipe off any marks and dirt using Altro Whiterock cleaner/thinner (Ref: A808) or Desolvit wipes (Ref: A817). When dry, apply Altro Whiterock antistatic agent to all surfaces (Ref: A809)

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.altro6steps.com

Altro recommends that all Altro Whiterock products are fitted by certified installers who have attended the Altro Walls Technical Training School - for confirmation and further information please contact your nominated installer or Altro.