

**NBS/M50 ALTRO ENSEMBLE
LUXURY VINYL TILE FLOORING COMBINED PARAGRAPHS**

TYPE(S) OF COVERING

- 110 PLASTICS TILING:
- Location:
Base:
Preparation: Clauses
 - Fabricated underlay: _____ as clause _____
 - Tiles: Heterogeneous PVC to EN 651.
Manufacturer and reference: Altro **ENSEMBLE** by Altro Floors, telephone 01462 480480, fax 01462 480010.
Size: **various**
Thickness: **2.6mm**
Colour: **TBC**
 - Adhesive (and primer if recommended by manufacturer): **Altrofix A15 or similar approved**
 - Skirting and Accessories: Clauses
 - Maintenance and Finishing: Clauses
 - Special requirements: **NB THIS PRODUCT MUST BE INSTALLED WITH AN ADHESIVE IN ITS WET STATE DUE TO ITS UNIQUE TEXTILE BACK**

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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, tightly jointed, 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.
- 252 LAYOUT: Agree setting out of pattern before ordering materials for covering type M50/110A.
- 270 EXTRA MATERIAL: Provide **5%** extra of each type of covering to be handed over to the Employer at completion.
- 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 weathertight, wet trades have finished their work, the building is well dried out, all paintwork is finished and dry, conflicting overhead work completed, and floor 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 laying.
- 340 CONDITIONING:
Before laying commences thoroughly condition materials by unpacking and separating in the spaces where they are to be laid. Ensure tiles are kept flat before installation. Minimum conditioning time and temperature to be as recommended by manufacturer. Extend period by a factor of 2 for materials stored or transported at a temperature of less than 10°C immediately prior to laying.

- 350 ENVIRONMENT: Before, during and after laying, provide adequate ventilation and maintain temperature and humidity approximately at levels which will prevail after the building is occupied.
- 360 UNDERFLOOR HEATING: Do not commence laying on floors with underfloor heating for a period of 48 hours after the heating has been turned off. Slowly return heating to its operative temperature not less than 48 hours after completing laying.

PREPARING BASES

- 410 SUITABILITY OF NEW BASES AND CONDITIONS: Laying of coverings will be taken as joint acceptance by the Main Contractor and Subcontractor of the suitability of the bases and conditions within any given area.
- 420 SUITABILITY OF EXISTING BASES AND CONDITIONS:
- Before commencing work the subcontractor must confirm (through the Main Contractor) that existing bases will, after the specified preparation, be suitable to receive the specified coverings.
 - Laying 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 coverings are to be laid on new wet-laid bases:
- Ensure that drying aids have been turned off for not less than 4 days, then
 - Test for moisture content using an accurately calibrated hygrometer in accordance with BS 5325, Annex A or BS 8203, Annex A.
 - Take readings in all corners, along edges, and at various points over the area being tested.
 - Do not lay coverings until all readings show 75% relative humidity or less.
- 440 SUBSTRATES: The specifications for trowelled finishes to receive thin floor coverings require:
- A uniform, smooth surface free from trowel marks and other blemishes, and suitable to receive the specified floor finish material.
 - Adequate protection from construction traffic.
 - Allowance for making good by application of a smoothing compound by and to the satisfaction of the flooring subcontractor in the event of the surface being unsuitable due to inadequate finishing or protection.
- 462A SMOOTHING UNDERLAYMENT COMPOUND:
- Manufacturer and reference: **Ardex UK Ltd, Arditex 'NA' smoothing compound.**
 - Apply to base at a minimum thickness of 3mm in accordance with manufacturer's product data sheet incorporating aggregate for applications more than 12mm thick.
 - Allow to dry before laying floor tiling/sheeting.
- 470 EXISTING FLOOR COVERING TO BE REMOVED: Completely remove covering and as much adhesive as possible. Skim with smoothing underlayment compound to give a smooth, even surface.
- 480 EXISTING FLOOR COVERING TO BE OVERLAID: Make good by local resticking and patching or filling with smoothing underlayment compound to give a smooth, even surface.
- 531A SURFACE DAMP PROOF MEMBRANE:
- Manufacturer and reference: **AltroProof Solo 'Universal' epoxy surface damp proof membrane by Altro Floors effective up to 97% R.H.**
NB: Please note AltroProof Solo 'Fast Track' is also available where floor coverings are to be laid same day. Conditions apply.
 - In the event of underfloor heating please consult Altro Technical for conditions of use.
 - Apply in accordance with manufacturer's instructions.

- 560 PLYWOOD UNDERLAY:
- To an approved national standard.
Bonding quality to BS EN 314:Part 2: Class 3
Finish: _____
Thickness: _____ mm.
Sheet size: _____ x _____ mm.
 - Ensure that existing floor boards are securely fixed and acceptably level. Remove or fill any gross irregularities. Punch in any protruding fasteners.
 - Lay sheets with cross joints staggered such that no joint within the base and underlay is coincident and with a 0.5-1 mm gap between sheets.
 - Fix with 25 mm ring shanked or twisted shank nails or divergent staples, commencing at the centre of one side of each sheet, at 150 mm grid centres over the area of each sheet and at 100 mm centres along perimeter, set in 12 mm from edge.
 - Ensure that fasteners are driven well in, with heads set flush with surface, and do not project through underside of base. Remove and replace fasteners that deform while being driven.

LAYING COVERINGS

- 610 SET OUT TILES from centre of space/room unless specified otherwise, so that wherever possible:
- Tiles along opposite edges are of equal size, and
 - Edge tiles are more than 50% of full tile width.
- 611A SET OUT **ALTRO Ensemble** FLOOR TILES according to installation instructions, ensuring that the arrows on the underside of the flooring are all pointing in the same direction.
Bond type: _____
- 620 COLOUR CONSISTENCY: In any one area/room use only coverings from the same production batch to prevent banding or patchiness resulting from colour/flash variation.
- 640A ADHESIVE FIXING GENERALLY:
- Adhesive: when not specified otherwise, type to be as recommended by covering/underlay manufacturer as appropriate or, in the absence of such recommendation, type to be approved.
 - Use a primer where recommended by adhesive manufacturer. Allow to dry thoroughly before applying adhesive.
 - Spread adhesive to the subfloor only with a 1:5mm x 5mm notched trowel. The modular flooring **MUST** be laid into the adhesive whilst the adhesive is still wet, it is vitally important to ensure that full adhesive transfer is achieved to the underside of the flooring, if the adhesive has 'set' or has become dry it must be re-applied. **Failure to place flooring into the adhesive whilst wet will result in insufficient adhesive being transferred to the underside of the flooring which will result in it not being properly adhered.**
 - Only apply enough adhesive that can be overlaid whilst wet and this will ensure good transfer of adhesive. Roll with a 68kg roller following placement of flooring in both directions. Clean any adhesive residue with a damp cloth ensuring all edges are firmly adhered to the subfloor and level in abutment **before leaving site.**
 - Trowel ridges and high spots caused by particles on the substrate will not be accepted.
- 720 DOORWAYS: Make joint on centre line of door leaf unless specified otherwise.
- 740 EDGINGS/COVER STRIPS:
- Manufacturer and reference(s): Quantum
Material/finish: Aluminium / PVC.
 - Fix securely (using matching fasteners where exposed to view) ensuring that edge of covering is firmly gripped.

750A STAIR NOSINGS:

- Manufacturer and reference(s): Altro _____.
Material/finish:
Inserts: Altro safety flooring, colour _____
Adhesive: Laybond Gripfill / Similar Approved.
- Bevelled underlay strips: Quantum
Lay under adjacent flooring to provide smooth joint with nosing.
- Fix securely and level with neatly mitred joints. Screw fixing with matching plugs _____ required.

751A STAIR TRIM:

- Manufacturer and reference: Altro _____ stairs trim with welded mitre angle by Altro Floors.
Material:
Length of each return leg: 360 mm.
Outer angle between treads and risers: ____
- Fixing: Securely bond with top edge parallel with stair tread. Accurately mitre inner junction of each tread and riser.
Adhesive: Laybond Gripfill / Similar Approved.

751B LANDING TRIM:

- Manufacturer and reference: Altro _____.
- Material:
Fixing: Securely bond with top edge straight and aligned with floor. Accurately mitre at corners.
Adhesive: Laybond Gripfill / Similar Approved.

760 STAIR COVERINGS: Neatly cut and tightly fit risers first, then treads.

770B SIT-ON COVERED SKIRTINGS:

- Manufacturer and reference(s): Quantum
Size: 100 mm high x 19 mm wide at base.
Colour: TBA
- Seal between wall and floor perimeter with Altromastic 100, prior to fixing skirting.
- Securely bond with top edge straight and parallel with floor. Accurately mitre at corners.

➤ See Altro detail drawing D2.

772A SET-IN COVERED STAIR RISER:

- Manufacturer and reference: **Altro PR3180 riser and coving section** by Altro Floors.
Colour: **TBC**
- Securely bond with top edge straight and aligned with stair tread.

775A STAIR STRINGER:

- Manufacturer and reference: Quantum
Thickness: _____ mm
Colour: _____
- Accurately cut to profile of tread and riser. Securely bond to background with top edge straight and parallel to pitch of stairs.
Height: _____ mm, measured normal to stair pitch, from inner junction between tread and riser.
Top edge: _____

780A TRAFFIC: After laying, keep floor covering type M50/110A free from traffic until adhesive is set.

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.

821A FINISHING PLASTICS FLOORING:
GENERAL

- Use AltroClean 44 cleaner or equivalent and mop wash or spray clean with soft pads after initial clean.

Contact Altro for detailed cleaning instructions: Altro Limited, tel: +44(0)1462 707600, fax: +44 (0)1462 707500, email: enquiries@altro.com

870 PROTECTION: Cover flooring with clean dust sheets, or other nonstaining suitable material to prevent damage from dirt and traffic prior to Practical Completion. Ensure any material with printed information on one face is laid with printed face uppermost.

880 WASTE: Retain spare covering material suitable for patching. On completion hand over to Employer pieces selected by CA.