

Specification

Formwall



PREPARED FOR:

CONTRACT: Installation of Allnex Construction Products
Formwall

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DATE: November 2016

- SCOPE:**
1. General conditions of contract.
 2. General assessment and scope of work.
 3. Pre Start Execution
 4. Substrate Requirements.
 5. Applying Primer / Sealer
 6. Installation: Allnex **Formwall**
 7. Remove Debris
 8. Cleaning Maintenance
 9. Quality Assurance
 10. Completion & Protection of the Work
 11. Warranty
 12. Installation Companies
 13. Documents to be Consulted

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1.0 GENERAL CONDITIONS OF CONTRACT

- 1.1 All materials shall be installed using best trade practices and in accordance with the manufacturers recommendations or instructions. If any doubt exists please contact Allnex Construction Products Limited for advice.
- 1.2 Materials may only be installed by contracting companies using staff skilled in the installation of all products covered by this specification. Contractors are to make available senior skilled staff to supervise the work while in progress.
- 1.3 The contractor shall take reasonable steps to protect the general public, his work and adjacent surfaces during the time that his work is in progress.
- 1.4 Contractors are required to provide an acceptable Health and Safety programme which meets all the requirements of the current "Health & Safety in Employment" legislation. Contractors must also comply with any other relevant government legislation or local body laws, regulations or requirements.
- 1.5 Prior to starting work samples of Formwall showing finished colour and jointing method should be showed to the builder / owner.
Termination details to walls, ceiling and other finishes should be discussed and detailed.
- 1.6 This specification is to be read in conjunction with relevant product information and conditions of contract which may be issued by the client.
- 1.7 The contractor is to inspect all areas to be treated and must be satisfied that the surface is satisfactory to receive the proposed Allnex Formwall system. If any doubt exists it is the responsibility of the contractor to seek advice from Allnex Construction Products.
- 1.8 Any warrantee required will be supplied by the application contractor and backed up by our agreement with them.
- 1.9 Allnex Q.A. procedure and documentation is to be accurately recorded and kept on site during the contract. Allnex Construction Products reserves the right to inspect this documentation at any time. A copy of all relevant Q.A. information is to be returned to Allnex within one month of completion of the work on site.
- 1.10 No Substitute Materials unless by prior agreement with Allnex Construction products.

2.0 GENERAL ASSESSMENT

- 2.1 **Formwall** is commercial grade ridged sheet pvc wall cladding with the emphasis on durability and hygienic. The Formwall will have either sealant or heat welded joints.
Generally all process and associated areas are covered by this specification and the associated installation manual however contractors are required to refer to all relevant plans, specifications and other contract documents as requested.
- 2.2 Contractors will be required to work closely with the Main Contractor, and/or their designated Co-ordinator/Consultant to minimise disruption as a result of work undertaken. Specific time requirements and logistics are to be negotiated directly between the contractor and The Main Contractors **authorised personnel**.
- 2.3 Any change required during the course of the contract must be in **writing**.
- 2.4 The Main Contractor is to ensure the designated areas are clear, clean and ready for the commencement of the contract.
- 2.5 If for any reason the contractor is unable to carry out the installation of the Allnex Formwall System in accordance with this specification, and relevant material data sheets, it is the responsibility of the contractor to bring this to the attention of the client and/or Allnex Construction Products in writing. This must be done prior to the commencement of the work.
- 2.6 Contractors are required to clean up all debris etc from the work area once their work is completed.
- 2.7 Technical Data
Refer to www.Allnexconstruction.com for any data.

2.8 Materials

Primer: Formwall Colour: Weld Rod: Sealant:	Allnex NPU Adhesive Allnex Formwall White or TBC as specified White or TBC as specified White or TBC as specified
Tapes, Trims & Edging	9.2mm rebated strip or TBC as specified PVC Start & Finishing Trim Welding joint materials. Holding Tapes Joint Strips. Upper strip and lower joint Strips
Substrate Flushing Allnex smoothing compounds to smooth / level the substrate	Ultrafinish
Materials Guidance Note, delete the products and sections that do not apply or insert a non-listed product as appropriate, consult Allnex Construction Products as required.	

- 2.9 Other installation requirements
 Allnex specified mixing equipment
 Allnex specified application equipment
 Allnex specified thermoweld equipment
 Allnex specified thermoforming equipment

3.0 PRE-START EXECUTION

- 3.1 STORAGE
 Accept all sheets and accessories undamaged and dry. Store sheets and adhesive pails upright with other material on level surfaces in non-traffic, non-work areas that are enclosed, clean and dry.
- 3.2 HANDLING
 Avoid distortion, stretching, marking and damage to sheets and especially sheet edges.
- 3.3 PREPARATION
 Check all materials to be used, sheets are not damaged or marked and adhesives are sealed and batch controlled.
- 3.4 DO NOT START
 Do not start work before the building is enclosed, all wet work is complete, doors are hung and lockable, finishes and trims are completed and good lighting is available?
- 3.5 INSPECT
 Inspect the substrate to ensure it complies with the requirements for the selected finish.
- 3.6 PROTECTION
 Protect adjoining work surfaces and finishes during the installation.
- 3.7 SITE SAFETY
 Ensure a site meeting has been held to acquaint other site workers with the requirement for closed access to the work area. Ensure Health and Safety requirements are understood and agreed to prior to the commencement of the contract.
- 3.8 TECHNIQUE
 Before beginning the installation confirm the proposed layout of material, location of seams and other visual considerations of the finished work.

4.0 SUBSTRATE REQUIREMENTS

All surfaces must be smooth, sound, dry and free of contamination. Ensure walls are true flat and square. Joints in plaster lining boards or plywood are to be filled and sanded to provide a flat smooth finish. If necessary, the walls should be cleaned down prior to installation to remove any dust or loose debris. Where possible, plumbing and electrical fittings should be removed to a first fixed state.

4.1 NEW CONCRETE

Clear substrate of all debris, clean off surface contamination and carry out surface repairs using a flushing compound as detailed above carefully feather out perimeters of repaired areas grind level, then vacuum to remove dust.

4.2 PREPARING NEW TIMBER OR PARTICLE BOARD

Clear substrate of debris, clean off surface contamination and carry out surface repairs.

4.3 EXISTING TIMBER WALLS

Clear substrate of debris, clean off surface contamination and carry out surface repairs.

4.4 PREPARING EXISTING CONCRETE

Strip off existing wall coverings, clear substrate of all debris, adhesive and surface contaminants. Carry out minor repairs using a cement-based flushing compound as detailed above. Carefully feather out perimeters of repaired areas, grind level, then vacuum to remove dust.

4.5 POLYPANEL

Clean off surface contamination; carry out minor repairs to achieve a smooth even surface.

4.6 Tiles

For applications over existing tiles, consult Allnex Construction Products for further details.

5.0 APPLYING PRIMER OR SEALER FOR FORMWALL SHEET

Prime and/or seal porous plaster, concrete and timber substrates with Duraseal.

6.0 APPLICATION

6.1 SETTING OUT

Initial set out is undertaken by way of laser ensuring both horizontal and vertical planes are established (Data Lines) and sheet layout considerations to minimise sheeting jointing.

6.2 THERMO FORMING OF INTERNAL AND EXTERNAL CORNERS

All internal and external corners are to be formed by way of thermoform. There are to be no internal or external welds in this installation.

6.3 APPLICATION OF PRIMER/TAPES

Apply Primer to the wall surface.

Fix all holding tapes to the Formwall sheet following the manufacturer's instructions.

6.4 APPLYING FORMWALL SHEET

Mark, cut, and size the sheet to be fixed

Apply Adhesive and then Install sheet following manufacturer's instructions.

Ensure there are no air bubbles or twisting and that the seams are kept clear of adhesive. Immediately the sheet is adhered roll with a 68kg roller.

APPLICATION OF ADHESIVE

Apply adhesive (chosen from above chart) by trowel. Use notch sizes and spread rates as specified in the Allnex datasheets. Follow requirements for open time, taking note of the substrate porosity, ambient temperature and relative humidity. Remove excess adhesive as the work proceeds using required techniques.

6.5 HOT WELDING WHITEROCK SHEET

Under no circumstances is this to be carried out until the correct cure times for the adhesives have been reached and recorded.

After grooving, thermoweld seams, heating the sheet and weld rod to a sufficient temperature to melt and

fuse them together in a single mass. Trim and glaze the weld to leave a smooth, flush surface with the sheet.

SEALANT SEALING

Under no circumstances is this to be carried out until the correct cure times for the adhesives have been reached and recorded.

After grooving, apply sealant seams and allow to cure,

Trim and glaze the seal to leave a smooth, flush surface with the sheet.

6.6 WALL TO CEILING FINISH DETAIL

As designed, Trim finish or Install Allnex sealant to top of Formwall sheet

6.7 FINISH TO WINDOW AND DOOR REVEALS

As Designed, Trim Finish or Install Allnex Sealant to all areas of sheet termination.

6.8 DADO HEIGHT TERMINATION

Install designed Heavy Duty start / edge trim.

6.9 PENETRATIONS

All pipes, fixing bolts etc. fixed through the Formwall panels should have a minimum 3mm expansion gaps and sealed using Allnex approved silicone sealant.

6.10 COVES

Note: The height and radius and top cove curve detail must be fully specified.

NOTE Coves are often installed before the Formwall.

If 9.2 rebated cove trim is installed lay Formwall sheet into the designed cove top termination trim, if a flush trim is utilised lay the Formwall onto the top trim edge.

6.11 APPLYING up to WALL PAINT **Note: Delete not applicable**

Apply Formwall in conjunction with the wall coating / paint under the guidance of installer and painter

7.0 REMOVE

Remove debris, unused materials and elements from the site.

8.0 CLEANING MAINTENANCE

Once all work has been completed, remove protection film, spray and wipe panels down with Allnex anti-static solution. 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

See Separate Technical Data Attached

9.0 QUALITY ASSURANCE

A log shall be kept by the Allnex contractor and made available to Allnex at their request. Information to be recorded daily is but not limited to:-

- a) Material Batch Numbers
- b) Sequence of Application & Adhesion Quantities
- c) Substrate Moisture Content
- d) Substrate Temperature
- e) Ambient Temperature
- f) Ambient Relative Humidity

Refer: Documents QC.RF.1, QC.RF.2, QC.RF.3

10.0 COMPLETION & PROTECTION OF WORK

Leave protection film on the Formwall sheets for the period between completion of installing and completion of the contract works.

The contractor shall take reasonable steps to protect his work and the work of others trades during the time that his work is in progress. The General Contractor during the same time shall keep the wall areas free and clear of traffic. Thereafter, until the building is completed, it shall be the responsibility of the general Contractors to protect the Allnex Formwall from damage, paint droppings, or other contamination that may prove difficult to remove or detrimental to the finish floor characteristics and performance.

11.0 WARRANTY

The contractor shall provide a warranty for a period of:

10 Years

Refer: Allnex Product Warranty Document Warranty for:
Formwall

12.0 ALLNEX APPROVED REGIONAL INSTALLATION COMPANIES

Allnex will provide individual advice for specific projects and should be consulted.
It is the nature on the trade that contractor skill levels, capability and experience vary.

13.0 DOCUMENTS TO BE CONSULTED

- Allnex Product Technical Data Sheets
- Allnex Formwall Details
- Allnex Cleaning Recommendations
- Allnex Surface Preparation Document
- Allnex Technical Bulletins
- Allnex Formwall Installation Manual

GUIDANCE NOTE

Delete from the DOCUMENTS clause any document not cited.
List any additional cited document

For further advice or information do not hesitate to contact the allnex technical team.

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