

DESCRIPTION

AFS LOGICWALL comprises a steel frame made up of metal C section studs, with 6mm fibre cement sheets bonded to each side to form a sandwich panel in varying thicknesses of 120mm, 150mm, 162mm, 200mm and 262mm. The panels are erected on site, braced and core-filled with concrete to achieve load-bearing, fire and sound rated walls.

APPROVED INSTALLERS

AFS LOGICWALL is a proprietary system developed by AFS Products Group Pty Ltd. It is manufactured by AFS Products Group Pty Ltd and installed by approved Supply & Install Contractors. Contact details of approved installers are available from AFS Products Group Pty Ltd, phone 1300 727 237.

SCOPE OF INSTALLATION

Supply and install complete walling system, placement of reinforcing bars, core filling, including but not limited to:

1. All labour and materials
2. Forming and providing openings
3. Building in items provided by others
4. Making good of any damages or deformation to walls
5. Clean-up and removal of waste.

NB: Items not within scope of installer:-

1. Cranage of panels to deck
2. Set out
3. Supply of reinforcing steel
4. External setting of joints

CORNERS

AFS prefabricated 90° corner units must be used in any 90° corner location. This ensures continuity at corners and minimizes setting.

AFS corners are available in configurations as follows:

- 90° modules
- Standard plan dimensions 450mm x 450mm
- Pre-installed corner bars – in accordance with the structural engineer's details

AFS LOGICWALL PANEL TYPES

The following AFS LOGICWALL panel types are available and are to be used in locations shown on architectural and structural drawings.

- AFS 120 RW 48 Dnt, W+Ctr 42 FRL 240/240/180
- AFS 150 RW 52 Dnt, W+Ctr 47 FRL 240/240/240
- AFS 162 RW 54 Dnt, W+Ctr 49 FRL 240/240/240
- AFS 200 RW 55 Dnt, W+Ctr 50 FRL 240/240/240
- AFS 262 RW 57 Dnt, W+Ctr 52 FRL 240/240/240

SERVICES

Hydraulic pipes are typically not installed within AFS LOGICWALL walls but either face fixed and battened over or installed in separate leaf walls. Where plumbing and services are to be installed in LOGICWALL walls they should be poly pipes and run vertically only from the slab above.

Electrical conduits are typically installed within AFS LOGICWALL walls. Conduits are made up prior to installation with elbow at top and electrical box fitted to bottom. Conduit is lowered into wall void and box fixed to pre-cut opening. A render plate is used to hold box secure until core filling and then removed. Electrical boxes are to be separated by at least one core in wall.

Care must be taken by services contractors to maintain integrity of fire and acoustic ratings when installing services, pipes and fittings. Refer to project specifications.

SHOP DRAWINGS

Detailed shop drawings will be prepared and submitted to builder or architect for approval prior to manufacture of panels. Shop Drawings are to be by AFS nominated drafting company. Please contact AFS on 1300 727 237 for contact details.

PRE-COREFILL INSPECTION

A pre-corefill inspection must be undertaken to ensure all panels are straight and plumb, all corners are square and the required reinforcement on structural drawings is correctly installed inside the AFS LOGICWALL panels. Ensure all joints are properly secured and screw fixed at 450mm centres and all openings adequately braced.

CORE FILLING

Refer to Chapter K 'Installation Guide' of AFS LOGICWALL Designer for concrete requirements and core-filling techniques.

CONSTRUCTION SEQUENCING

1. Form-up first slab
2. Place L bars in slab
3. Pour and cure of first slab
4. Erect AFS LOGICWALL panels, placing horizontal bars in sequence
5. Erect formwork of second slab
6. Run electrical services
7. Place vertical bars in walls using formwork as working platform
8. Core fill AFS LOGICWALL using formwork as a working platform
9. Set joints once joints are waterproofed.

NB: where a prefab floor system is used, the LOGICWALL may be core filled from a mobile scaffold prior to forming of second slab.

Sufficient notice should be given by the builder prior to core filling for inspection of AFS LOGICWALL panels, reinforcement and services. A sign-off system should be implemented by the builder to ensure any services within the walls are correctly placed prior to core filling.

TOLERANCES

All walls and openings must be square, straight and plumb and comply with drywall construction tolerances to AS2589.

REFERENCE STANDARDS

AS 4055 Wind loads for housing
AS 1170.4 Earthquake loads
AS 1650 Galvanised coatings
AS 1315 Portland cement
AS 3600 Concrete structures
AS 3700 Masonry structures
AS 2589 Plasterboard