

Turing House Specification

10 October 2019

This document includes:

Code	Section	Revision	Dated
F30	Accessories/ sundry items for brick/ block/ stone walling	P01	9 Oct 2019

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**Accessories/ sundry items for brick/ block/ stone
walling**

Section Revision History

No.	Purpose	
P01	Contractors Proposals	9th Oct 2019

Clauses amended in Revision P01

This is the first revision stamp for this section. For all future revision stamps, details of all clauses amended at that revision will be included here.

F30 Accessories/ sundry items for brick/ block/ stone walling

To be read with Preliminaries/ General conditions.

CAVITIES

120 CLEANLINESS

- Cavity base and faces, ties, insulation and exposed dpcs: Free from mortar and debris.

132 PERPEND JOINT PLASTICS WEEP HOLES

- Manufacturer: Contractor's choice .
 - Product reference: Contractor's choice.
- Locations: Through outer leaf immediately above base of cavity, at cavity trays, stepped dpcs and external openings. 75 mm above top of cavity fill at base of cavity.
- Provision: At not greater than 1000 mm centres and not less than two over each opening.

151 FULL FILL CAVITY INSULATION BELOW DPC

- Manufacturer: Jablite Ltd. www.jablite.co.uk sales@jablite.co.uk Tel 0870 600 3666. Infinity House, Anderson Way, Belvedere, Kent DA17 6BG or equal approved..
 - Product reference: Jabfloor White 100.
- Note: there is no certification for the use of this product in a full fill cavity application
- Face size (nominal length x width): 2500 x 600 mm.
- Thickness (nominal): 100mm. Manufacturer to confirm thickness to provide required U-value. Refer to M+E Consultant's Thermal Report; additional use of 60mm insulation between ground slab edge and pre-cast concrete edge beam as per Architect's details...
Additional requirements: polyethylene separation sheet between insulation and underside of concrete floor slab if required by manufacturer. .
- Placement: Continuous and free of mortar and debris.

156 PARTIAL FILL CAVITY INSULATION (LIGHTWEIGHT SCHOOL SYSTEM)

- Insulation: Rock Mineral Wool boards to BS EN 13162..
 - Product certification: British Board of Agreement (BBA) Certificate number 95/3197 + 09/4667.
- Manufacturer: Knauf Insulation.
 - Product reference: EARTHWOOL RAINSCREEN SLAB.
- Recycled content: Not applicable.
- Face size (length x width): 1200 x 600 mm.
- Thickness (nominal): 50mm.
- Thermal conductivity: 0.034 W/(m.K).
- Reaction to fire class: A1.
- Fire performance: Class 0
- Additional requirements: Contractor must ensure Minimum 50mm clear cavity.
- Placement: Secure against face of inner leaf.
 - Residual cavity: Clear and unobstructed.
- Joints between boards, at closures and penetrations: No gaps and free from mortar and debris.

181 CAVITY CLOSERS used with partial fill masonry cavity - LIGHTWEIGHT SCHOOL SYSTEM

- Manufacturer: Rockwool Ltd.
 - Product reference: Rockwool TCB Cavity Barrier suit cavity widths - refer to drawings.
- Accessories: To include integral dpc and insulation. Jointing clips, Wall fixing ties, Extended fixing flange, Profile brackets .

REINFORCING/ FIXING ACCESSORIES

Refer to the project Structural Engineer's separate specification and drawings in respect of reinforcing / fixing accessories, including restraints, reinforcement, masonry supports, prefabricated lintels etc.

245A CHANNEL/ SLOT TIES TO BRICKWORK - (LIGHTWEIGHT SYSTEM)

- Manufacturer: Ancon Building Products.
 - Web: www.ancon.co.uk.
 - Email: info@ancon.co.uk.
 - Product reference: Restraint System
- Channel: 25/14.
 - Material: Stainless steel grade 1.4301 (304).
 - Mounting: Surface fixed.

248A SLOT TIES USED WITH PARTIAL FILL INSULATION TO BRICKWORK (LIGHTWEIGHT SYSTEM)

- Manufacturer: Ancon Building Products.
 - Web: www.ancon.co.uk.
 - Email: info@ancon.co.uk.
 - Product reference: SP25 Cavity Wall Tie
- Size: To suit cavity widths - refer to drawings.

251A WALL HEAD RESTRAINT SLIP TIES

- Manufacturer: Ancon Building Products.
 - Web: www.ancon.co.uk.
 - Email: info@ancon.co.uk.
 - Product reference: IHR-B Head Restraint - To Structural Engineer's Specification.
- Length: To Structural Engineer's Specification.
- Material: Stainless steel grade 1.4301 (304).

261 ANGLE SUPPORTS

- Manufacturer: Ancon Building Products.
 - Web: www.ancon.co.uk.
 - Email: info@ancon.co.uk
 - Product reference: AnconOptima 10/12/14 Support System or equal and approved by Architect and Structural Engineer.
- Fixing: TBC.
- Accessories: Thermal break, BK03-135.
- Refer to Structural Engineer's Specification / drawings

262 BESPOKE PREFABRICATED ANGLE SUPPORTS WITH MECHANICALLY FIXED BRICK SOFFIT

- Manufacturer: IG Lintels, Avondale Road, Cwmbran, Gwent, NP44 1XY.
 - Web: www.iglintels.com
 - Email: info@igltd.co.uk.
 - Product reference: Bespoke prefabricated masonry support with mechanically fixed brick soffit by IG Lintels.
- Fixing: TBC.
- Accessories: Thermal break, BK03-135.
- Refer to Structural Engineer's Specification / drawings

271 MESHWORK JOINT REINFORCEMENT

- To Structural Engineer's Design

281 LATERAL RESTRAINT PROPRIETARY SLIP TIES FOR MOVEMENT JOINTS IN EXTERNAL LEAF

- Manufacturer: Ancon Building Products. Web: www.ancon.co.uk Email: info@ancon.co.uk.
 - Product reference: Ancon PPS Movement Tie with Debonding Sleeve.
- Material/ finish: Austenitic stainless steel.
- Fixing centres: Alternate courses.

FLEXIBLE DAMP PROOF COURSES/ CAVITY TRAYS**331 DAMP PROOF COURSE -**

- Manufacturer: Visqueen or equivalent (to be compatible with DPM including gas retardant grade if necessary - to be confirmed following site investigation. Visqueen Building Products, Maerdy Industrial Estate, Rhymney, Tradegar, NP22 5PY. Tel: 01685 804672 Fax: 01685 842580 Email enquires@visqueenbuilding.co.uk Web: www.visqueenbuilding.co.uk .
 - Product reference: Visqueen Zedex CPT High Performance DPC system, Agrément Certificate No. 94/3059.
- Preparation / Installation: Ensure Zedex CPT DPC is installed following good practice set out in BS 5628: Part 3: 2005. All DPCs must extend through the full thickness of the wall leaf, including pointing, applied rendering or other facing materials, and project beyond the external face by 5mm. Zedex CPT DPC must be laid on an even bed of wet mortar and perforations in adjacent courses of brickwork must be completely filled with mortar. All lap joints in the DPC must have 100mm overlap and be completely sealed using Zedex DPC Jointing Tape. Complete all work strictly in accordance with Agrément Certificate 94/3059

346 SITE FORMED FLEXIBLE SHEET CAVITY TRAYS

- Material: To be compatible with DPM including gas retardant grade if necessary - to be confirmed following site investigation.
- Manufacturer: Visqueen Building Products or equivalent, Maerdy Industrial Estate, Rhymney, Tradegar, NP22 5PY. Tel: 01685 804672 Fax: 01685 842580 Email: enquires@visqueenbuilding.co.uk Web: www.visqueenbuilding.co.uk .
 - Product reference: Visqueen Zedex CPT High Performance DPC system, Agrément Certificate No. 94/3059.
- Preparation / Installation: Ensure Zedex CPT DPC is installed following good practice set out in BS 5628: Part 3: 2005. All cavity trays must be laid on an even bed of wet mortar in both internal and external walls or alternatively face-fixed to the internal leaf using Zedex DPC Fixing Strip & Pins (Grey Fixing Pins for masonry/ Black Fixing Pins for RUF insulation) and laid in the external mortar bed. All lap joints in the cavity tray must have 100mm overlap and be completely sealed using Zedex DPC Jointing Tape. All changes in direction and/ or level require the application of a Visqueen Preformed Unit. Ensure all joints between Preformed Unit and Zedex CPT DPC are sealed as above. Complete all work strictly in accordance with Agrément Certificate 94/3059

386 PREFORMED DPC/ CAVITY TRAY JUNCTION CLOAKS/ STOP ENDS

- Manufacturer: Visqueen Building Products or equivalent, Maerdy Industrial Estate, Rhymney, Tradegar, NP22 5PY. Tel: 01685 804672 Fax: 01685 842580 Email: enquires@visqueenbuilding.co.uk Web: www.visqueenbuilding.co.uk .
 - Product references : Visqueen Zedex CPT High Performance DPC system, Agrément Certificate No. 94/3059.
 - Preparation / installation: Ensure Visqueen Preformed Units are installed following good practice set out in BS 5628: Part 3: 2005. All Preformed Units must be laid on an even bed of wet mortar in both internal and external walls or alternatively face-fixed to the internal leaf using Zedex DPC Fixing Strip & Pins and laid in the external mortar bed. All lap joints with the cavity tray must be 100mm overlap and be completely sealed using Zedex DPC Jointing Tape. Complete all work strictly in accordance with Agrément Certificate 94/3059. Placement: Seal laps with dpcs and/ or cavity trays.

390 SITE FORMED DPC/ CAVITY TRAY JUNCTIONS/ STOP ENDS

- Three dimensional changes in shape: Form to provide a free draining and watertight installation. Seal laps.
- Alternative use of preformed junction cloaks/ stop ends: Submit proposals.

INSTALLATION OF DPCS/ CAVITY TRAYS**415 HORIZONTAL DPCS**

- Placement: In continuous lengths on full even bed of fresh mortar, with 100 mm laps at joints and full laps at angles.
- Width: At least full width of leaf unless otherwise specified. Edges of dpc not covered with mortar or projecting into cavity.
- Overlying construction: Immediately cover with full even bed of mortar to receive next masonry course.
- Overall finished joint thickness: As close to normal as practicable.

425 GROUND LEVEL DPCS

- Joint with damp proof membrane: Continuous and effectively sealed.

435 STEPPED DPCS IN EXTERNAL WALLS

- External walls on sloping ground: Install dpcs not less than 150 mm above adjoining finished ground level.

445 SILL DPCS

- Form and placement: In one piece and turned up at back when sill is in contact with inner leaf.

455 COPING/ CAPPING DPCS

- Placement: Bed in one operation to ensure maximum bond between masonry units, mortar and dpc.
- Dpcs crossing cavity: Provide rigid support to prevent sagging.

475 SITE FORMED CAVITY TRAYS

- Requirements to prevent downward ingress of water:
 - Profiles: To match those shown on drawings. Firmly secured.
 - Joint treatment: Use unjointed wherever possible, otherwise lap at least 100 mm and seal to produce a free draining and watertight installation.
 - Horizontal cavity trays: Support using cavity closer.
 - Sloping cavity trays: Prevent sagging.
 - Cleanliness: Free from debris and mortar droppings.

485 CAVITY TRAYS OVER OPENINGS AND OTHER CAVITY BRIDGINGS

- Length: To extend not less than 150 mm beyond ends of lintels/ bridgings.

535 DPC/ CAVITY TRAY LEADING EDGE IN FACEWORK - PROJECTING

- Treatment at face of masonry: Projecting 5 mm from face of wall at the following locations: Generally

560 VERTICAL DPCS GENERALLY

- Form: In one piece wherever possible.
 - Joints: Upper part overlapping lower not less than 100 mm.

570 JAMB DPCS AT OPENINGS

- Joint with cavity tray/ lintel at head: Full underlap.
- Joint with sill/ horizontal dpc at base: Full overlap.
- Projection into cavity: Not less than 25 mm.
- Relationship with frame: In full contact.

JOINTS**611 MOVEMENT JOINTS WITH SEALANT TO EXTERNAL FACING BRICKWORK**

- Joint preparation and sealant application: As section Z22.
- Filler: Closed cell polyethylene foam.
 - Thickness: To match design width of joint.
 - Manufacturer: Fosroc Expandite or similar approved.
Product reference: Hydrocell.
 - Placement: Build in as work proceeds with no projections into cavities and to correct depth to receive sealant system.
- Sealant:
 - Designation: Low modulus gun grade polysulphide.
 - Manufacturer: Fosroc Expandite or similar approved.
Product reference: Thioflex or equal approved.
 - Colour: To match Brickwork or as otherwise agreed.

630 UNEXPOSED CONTRACTION JOINTS

- Formation: Close butt as work proceeds.

650 POINTING IN FLASHINGS

- Joint preparation: Free of debris and lightly wetted.
- Pointing mortar: As for adjacent walling.
- Placement: Fill joint and finish flush.

660 PINNING UP TO SOFFITS

- Top joint of loadbearing walls: Fill and consolidate with mortar.

670 TOPS OF NONLOADBEARING WALLS

- Restraints: As Structural Engineer's specification and/or details .
 - Fixing: Secure to soffit.
- Joint filler: As Clause 616 .
 - Placement: Full, no gaps.

PROPRIETARY SILLS/ LINTELS/ COPINGS/ DRESSINGS**750 PREFABRICATED STEEL LINTELS**

- Refer to Structural Engineer's Specification / drawings

751 BESPOKE PREFABRICATED STEEL LINTELS WITH MECHANICALLY FIXED BRICK SOFFIT

- Manufacturer: IG Lintels, Avondale Road, Cwmbran, Gwent, NP44 1XY.
 - Web: www.iglintels.com
 - Email: info@igltd.co.uk.
 - Product reference: [Bespoke prefabricated steel lintel with mechanically fixed brick soffit by IG Lintels].
Fixing: [TBC].
- Refer to Structural Engineer's Specification / drawings

MISCELLANEOUS ITEMS

830 BUILDING IN FRAMES

- Preparation: Remove horns and provide support.
- Fixing cramps: Fully bed in mortar.

840 OPENINGS FOR FRAMES

- Formation: Use accurate, rigid templates to required size.

850 WALL PLATES

- Placement: On full bed of mortar to correct horizontal level.

980 GREEN WALL TRELLIS SYSTEM

- Manufacturer: MMA Architectural Systems Ltd
35c Fourth Avenue
Westfield Industrial Estate
Midsomer Norton
Somerset
BA3 4XE.
 - Product reference: Green Wall rope and rod system.
- Fixings: suitable for fixing into masonry.
- Accessories: All necessary components to complete system