SUBSTRUCTURE

Foundations in accordance with SE details. Blockwork used below DPC to be frost resistant with a minimum compressive strength of 7N/mm². Structural Engineer to clarify all strengths in design. All blockwork to be properly bonded with 1:3 cement: sand mortar. Leaves to be tied together with stainless steel wall ties, horizontal spacing to be max. 900mm, vertical spacing max. 450mm. Cavity to be filled with lean mix concrete up to 225mm below lowest DPC. Facing brick to external leaf (Class 'B' Semi-Engineering grade) to BS EN 771-1: 2011+A1: 2015 - Category F2, from DPC to 3 courses below finished ground level(s) and where exposed by finished levels will match those approved by the Local Authority for the facing brickwork. Pre-stressed pre-cast concrete lintels (or similar) to be provided over openings through walls above drainage pipes and service ducts - but must not be

GROUND FLOORS (BEAM & BLOCK) To comply with BS EN 15037-5: 2013 and BS EN 1992-1-1:2004+A1:2014.

be provided to prevent vermin entry.

visible above finished ground levels. Rigid board to

Minimum 75mm thick mesh or fibre reinforced sand and cement screed at mid-span (allowing for camber in floor beams), to comply with BS 8204-2: 2003+A2:2011. Min. 500 gauge membrane separating layer (if insulation has no pre-laminated membrane)

beneath min. 80mm thick PIR insulation with minimum thermal conductivity of 0.022W/mK and a minimum 25mm thick up-turn to full depth of screed at perimeters. 1200 gauge Damp-Proof Membrane (DPM) in accordance with BS EN 13984: 2013 on nominal 5mm thick sand blinding, fully installed, lapped and

sealed in accordance with manufacturer's instructions and recommendations and fully lapped and sealed with all DPCs. Damp Proof Course to BS EN 14909: 2012 and BS

Where penetrations in DPM are un-avoidable, ensure that such penetrations are made fully watertight with an approved liquid DPM. U-Value = $0.18W/m^2K$ (TBC)

SLEEPER WALLS Sleeper walls, where required, (generally 215mm wide) to support floor beams.

by the Specialist Floor Manufacturer.

Masonry walls to comply fully with the relevant sections of BS EN 1996-1-1:2005 + BS EN 1996-2: Width of wall to suit bearing dimension as specified

Where cross-ventilation passes through wall, build brickwork in "Honeycomb" bond (or airbricks to match opposite in external walls) within 450mm of internal corners.

Provide DPC to BS EN 14909: 2012 + BS 8215: 1991, where floor system bears onto external / sleeper walls, in accordance with BS 8102: 2009.

SUB-FLOOR VENTILATION

Provide min.150mm ventilated void beneath floor with telescopic vents (including vertical adaptors as required) at 2.0m centres at a rate of 1500mm² per metre run, with air bricks to BS 493: 1995+A1: 2010. Vents not to be sited under doors or directly below floor beams. Cavity trays to be provided over telescopic vents with DPC in accordance with Manufacturer's recommendations. Ground beneath to have a surface free of vegetable matter.

EXTERNAL WALLS – 140mm TIMBER FRAME Refer to elevations for wall conditions

Brickwork: 102.5mm facing brickwork (frostresistant) to BS EN 771-1: 2011+A1: 2015 minimum Category F1. External leaf to be properly bonded and solidly put together with gauged mortar, generally a 1:1:6 mix to BS EN 998-2. 50mm clear cavity.

Cladding: Vertical rebated T&G cladding fixed to pre-treated horizontal support battens at 600m centres, with angled top edge (15°) to shed water away from wall. Pre-treated vertical battens at 600mm centres fixed through to frame. Softwood battens shall be pre-treated by an industrial process in accordance with BS8417 for a BSEN335:1 Use Class 3 application. Loadbearing Timber Frame inner leaf consisting of nom. 9mm marine grade plywood / min. grade OSB 3 sheathing with breathable membrane to outside face extending below DPC by min.150mm. Void of frame filled with 140mm thick factory-fitted rigid insulation with Thermal Conductivity ≥0.025W/mK. Vapour Control Layer (VCL) to inside face. 50 x 50mm timber battens over VCL, with 2no. layers of 15mm Fireline board o/e, with staggered joints, to BS EN 520: 2004+A1: 2009 to provide min. 60 minutes fire protection to Timber Frame to BS 476. Use of moisture-resistant grade board to 'wet' areas with nom. 3mm plaster skim coat finish. For wall reinforcement where required (handrails, guarding, Kitchens, Bathrooms, En-Suites, WCs etc.), fix 9mm plywood sheathing before application of plasterboard linings.

Inner leaf blockwork below sole plate of Timber Frame to be wrapped in DPC on cavity side, fully lapped and sealed with DPM to at least 150mm above external finished ground level/s. Timber Frame tied to outer leaf masonry with Ancon or equal approved stainless steel wall ties to BS EN 845-1: 2013 + BSI PD 6697:2010 at max. 900mm horizontal spacings, and vertical spacings max. 450mm, laid in staggered formation. Debonded wall ties to be used at Movement Joints. Min U-Value to be achieved = 0.22W/m²K

LINTELS TO EXTERNAL LEAF MASONRY In accordance with SE detail. 'Ancon ST50' o/e approved galvanised steel lintels for Timber Frame in accordance with BS EN 845 Part 2. 2003 fixed back onto timber frame inner leaf. All lintels to be installed with cavity tray DPC with weep vents at max. 450mm c/c (min 2no. per opening).

CAVITY BARRIERS / CLOSERS

6515: 1984 + BS 8215: 1991

Provide 'Rockwool Firepro PWCB' o/e continuous

fire resistant cavity barriers between timber frame

and external leaf masonry, on line of Separating /

Provide 'Rockwool Firepro TCB' or equal approved

continuous fire / sound resistant cavity barriers

to BS 476: 1987, installed horizontally, on line of every Separating / Compartment Party upper

Continuous cavity tray above horizontal barriers

with weepholes at max. 1500mm centres, to BS

to BS 476: 1987 around all door and window

reveals / openings within external walls.

Provide 'Isover Ultimate' o/e fire-rated cavity barrier

Party walls, as indicated on the drawings.

DAMP-PROOF COURSE (DPC) DPC to BS 6515: 1984, BS 8215: 1991 and BS EN 13984: 2013, in accordance with BS 8102: 2009, set at least 150mm above external ground level. Cavity tray on DPC line where bridged by raised path (where relevant).

PARTY WALL, TIMBER FRAME Comprising 2no. leaves of 38 X 89mm open panel timber framing, filled with min. 60mm mineral wool (min. density of 10kg/m3), with 9mm OSB sheathing lined to cavity face, tied together with 'PWT200' by Simpson Strong Tie o/e. 50mm clear cavity between leaves. 2no. layers of gypsum based board, (22kg/m²), to both sides with staggered joints and skim finish. Board detail/lining requirements as External

02-00-11 Unit 7

36.63 m²

Walls. Where Party wall meets external wall,

rated to performance levels matching wall.

cavities to be separated by a flexible cavity stop.

Wall sockets fixed into wall to be acoustic and fire

studs at max. 600mm c/c filled with 50mm thick 'Isover Acoustic Partition Roll' o/e mineral wool (min. 10kg/m²). gypsum-based board to BS EN 520: 2004+A1:

To comprise of 38mm x 89mm open panel timber

INTERNAL TIMBER STUD PARTITION

02-00-10 Unit 6

Both sides of stud to be lined with layer of 12.5mm

STAIR TO FIRST FLOOR Galvanised steel stair and landings as plan layout. Total rise 3300mm, 20no. risers at 165mm with 250mm goings, pitch 33°.

KITCHEN/ BATHROOM/ WC WALL FIXINGS Provide 12mm plywood to BS EN 636: 2012+A1: 2015 or min. grade OSB3 backing to all studwork, including walls containing doors.

Nosing colour to contrast with treads to be fitted, with a slip-resistant finish. Handrails on both sides to be between 32mm and 50mm in diameter, and suitably fixed to achieve clearance of 50mm and 75mm between outside edge of handrail and adjacent fixing surface. bottom step at each floor, and be terminated in caught. Handrail between 900mm and 1000mm BS 6180 and BS-EN 1991. Vertical balusters centred to prevent sphere of 100mm passing between.

02-00-09

Entrance

1 4 W/m²K

Handrails to extend at least 300mm beyond top and such as way as to prevent clothing etc. from being above pitch line of steps and 1000mm high at half and full landings. All guardings are to be designed, made and installed to resist the forces as given in

ALUMINIUM CURTAIN WALLING

frames complete with double glazed units. Manifestation to be provided in two rows between 850-1000mm and 1400-1600mm comprising of min 50mm dia dots at max 250mm centres. Unit to achieve a weighted average u-value of 1.3W/m²K -

ALUMINIUM DOORS

and BS 6262-4: 2005.

Safety double-glazed panels of 4mm toughened

Letter box apertures and plates to BS EN 13724:2013.

1.3W/m²K - 1.4 W/m²K

ALUMINIUM WINDOWS

24: 2012. Sealed low 'E' double-glazing to BS 6262-2: 2005. Toughened glass to all glazing within 800mm of finished floor level. Acoustic rating to be fully compliant with BS EN ISO 717-1: 2013.

sills in Bathrooms) Fire-rated, insulated cavity closers to window respective Accredited Construction Details (ACDs).

restrictors.

LEVEL THRESHOLD

02-00-07 **Unit 4**

36.95 m²

Flush combined threshold with max. 15mm upstand weather-seal by 'Sealmaster' or equal approved. DPC to be taken up the face of the threshold in the joint between threshold and paving.

Aluminium curtain walling with thermally broken

To be fully compliant with BS 8213-1: 2004, PAS inner / 4mm laminated outer pane, 6mm gap to BS 6206: 1981, BS EN 12600: 2002, BS 6262-3: 2005

Draft excluders and mastic seal to all doors. Fire-rated, insulated cavity closers to door openings. Upon installation, frame to overlap insulation by min 30mm in accordance with respective (ACDs). Line jambs and soffits internally with 27mm thick 'Thermaline PLUS' o/e insulated plasterboard Level Thresholds to Project no greater that 15mm.

Unit to achieve a weighted average u-value of

To be fully compliant with BS 8213-1: 2004, PAS

Draft excluders and mastic seal to all windows. 25mm MDF Window boards, gloss painted (tiles

openings. Upon installation, frame to overlap insulation by min 30mm in accordance with Line jambs and soffits internally with 27mm thick 'Thermaline PLUS' o/e insulated plasterboard. All upper floor windows to be fitted with opening

All windows to be internally beaded. Unit to achieve a weighted average u-value of 1.3W/m²K - 1.4 W/m²K

BUILDING REGULATIONS SPECIFICATION NOTES. INTERNAL FIXTURES & FITTINGS Completion of interior fit out to tenant specification

INTERNAL DOORS

Timber door sets to BS EN 14221: 2006, BS EN 942: 2007. Safety glass to all internal doors to BS 6262: Part 4: 2005, Laminated: BS EN 14449: 2005. Toughened: BS 6206 or BS EN 12600. Ironmongery design by Others. Fire-rated doors where noted on Plan, to comply with BS 8214: 2008 (including frame and ironmongery). Any glazing within fire-rated doors to match door in terms of fire-rated performance. Fire Safety Signage to be provided to fire doors

within Communal areas (where applicable), to read "Fire Door Keep Closed" (doors to Circulation etc.), and "Fire Door Keep Locked" (Cupboards, Stores, Internal doors to have a min. clear opening of

Refer to Door Schedule for additional detail.

SANITARYWARE: WASHBASIN

White 360 x 350mm washbasin with 32mm or 50mmØ x75mm deep seal trapped waste to SVP or SS according to length of waste run.(Recessed version of basin to vanity units). Chromium-plated conventional lever taps with aerated or flow restriction.

SANITARYWARE: WC

White low level, close-coupled, lever flush WC with 100mmØ P trap outlet to SVP or SS (or S trap direct connection to manhole). Double flap seat.

To be fitted with flow regulator.

DOC M SHOWER & WC Full Doc M shower and WC pack to achieve layout

as desiged to include folding shower seat and back support in grey, 3 x 60cm grab rails, 2 x hinged rails and 2 x 45cm grab rails, lever operated thermostatic mixer for concealed supplies, shower handset holder, handset & hose, fixed short projection shower head. lever operated diverter.

CUBICLE PARTITIONS Proprietary cubicle partition system comprising solid grade laminate partitions. Colour and ironmognery/general finishes to be confirmed.

VANITY UNITS Solid grade laminate vanity units for recessed

counter top basins. Treated softwood framework. **TEA POINT SINK**

-Inset stainless steel sink with 40@x75mm deep seal trapped waste to standing waste. Chromium-plated conventional taps. Taps to be fitted with flow regulators

FLOW RATES

All flow rates for taps are to be no more than 105l/pp/pd to comply withApproved Document Part 'G' of the Building Regulations. This will be achieved with the following Specification:

- Toilets = 4 / 2.6 L - Basin Taps = 4 L/min

- Kitchen Taps = 12 L/min

Contractor to provide evidence that the above flow rates have been met, and submitted to Building Control.

Communal Training/Meeting Rm

FIRE / SOUND STOPPING THROUGH FLOORS **CEILINGS AND WALLS**

(for penetrations less than 40mm), 'Rockwool Firestop' collar (for pipes between 40 to

'Rockwool Firepro' Ablative Coated Batt (for large openings / voids),

(e.g. 60 minutes fire-rated wall = 60 minutes firerated product).

Any exposed steel or other Load-bearing / Structural elements to be afforded at least 60 minutes fire-rated construction to BS 476: 1987, with one of the following methods: Encased in 60 minutes fire-rated construction, with either British Gypsum's 'Glasroc-F Firecase'. 'Gypliner ENCASE' System or equal approved – generally 20mm thick board - Class 'A1' / '0' firerated, installed in accordance with the Manufacturer's Instructions.

Alternatively, protect all areas of exposed steelwork with a suitable intumescent paint by 'Envirograf' or equal approved, preparing / priming steelwork prior to application.

EMERGENCY SIGNAGE (COMMUNAL AREAS)

'Rockwool Firepro' Acoustic Intumescent Sealant

160mm internal ∅)

'Rockwool Firepro' Firestop Compound (for large openings / voids - LOADBEARING). Walls where acting as a Fire-Rated wall, all gaps to be fully sealed with one of the above as appropriate, to maintain fire / smoke performance. Fire-stopping products must be at least equal in performance to the element to where it is fitted

FIRE PROTECTION TO STRUCTURAL STEEL

BS EN 12056-2: 2000 and BS EN 1401-1: 2009. SVP encased and framed out with 2no. layers gypsum board (8kg/m²) with WPB ply screwed access panels to SVP, with access plates at all junctions, changes in direction and 150mm above finished ground floor level. SVP to terminate at ridge vents where possible. Where SVP penetrates Separating / Party floors, provide 25mm (min) mineral wool quilt (10-36kg/m³) around pipe. Pipe to be boxed in with

Signage of a permanent nature to be installed in prominent positions in strict accordance with the Health and Safety (Safety Signs and Signals) Regulations, 1996, and well as BS 5499-10: 2014, BS ISO 7101: 2012+A6: 2016. Doors to Communal areas to be designated with the correct Fire Signage.

FD30

Scale Bar 1:50

Access W.C

SOIL VENT PIPES (SVP)

relevant Standards including BS EN 15012:2007,

2no. layers of gypsum based board combined

Fire collars maintaining 60 minutes fire resistance

admittance value in roof space, where not at head

All plumbing to BS EN 12056-2: 2000 and BS EN

All fittings to connect to wastes via. 75mm deep

Bath/Shower/Urinal 40mm∅ (18-90mm fall p/m);

All waste connections to SVP to be min 215mm

Rodding access to be provided at all bends, with

The entire internal waste system is to be designed

withstanding an Air Test of positive pressure of at

Every trap should maintain a water seal of at least

02-00-04 **Cup'd** 2.36 m²

Unisex W.C

in accordance with AD Part H and be capable of

least 38mm water gauge for at least 3 minutes.

appropriate access hatches in any surrounding

Minimum waste sizes to be (with gradient in

- WC 100mmØ (18-90mm fall p/m);

Sink/WHB 32mmØ (18-44mm fall p/m);

- Washing Machine/Dishwasher 40mmØ

from WC branch connections.

nominal 16kg/m². All voids around pipe to be

to be provided to SVP where these penetrate

compartment floors. SVP to terminate 900mm

above any opening windows with tile or ridge

ventilator. (Alternatively BBA approved air-

PLUMBING – WASTE PIPES

discharge to drain.

suitably sealed.

of drain).

1401-1: 2009.

brackets):

seal anti-syphon traps.

BUILDING REGULATIONS SPECIFICATION NOTES (MEP)

100mmØ uPVC soil and vent pipe with rodding point to ground floor and large radius bend

comply with BS EN 12200-1: 2000 and BS EN 607: Plastic Pipework, fittings, joints etc. to comply with Metal roofs: Aluminium box gutters and 100mm square downpipes. STANDING WASTE 50mmØ uPVC standing waste with rodding point

RAINWATER GOODS

COLD WATER SUPPLY (CWS) Supply pipe run within Ø100mm duct with 38mm

insulation (thermal conductivity of 0.035W/mK or better), capped-off at ground end. Connect to in-the-ground type water meter/s as indicated on the drawings, all to the local Water Authority's requirements. Refer to MEP design.

connected to 110mmØ. Easy bend outlet to drain.

Ingleton Wood LLP shall have no liability to the Employer arising out of any unathorized modification or amendment to, or any transmission,

copy or use of the material, or any proprietary work contained therein, by

This drawing is to be read in conjunction with all other relevant drawings

All dimensions are to be checked and verified on-site by the Main

Contractor prior to commencement; any discrepancies are to be reported to the Contract Administrator.

Pantile roofs: Ø112mm aluminium deep flow

gutters with Ø68mm matching downpipes to

VENTILATION REQUIREMENTS Refer to MEP design.

ELECTRICAL REQUIREMENTS Refer to MEP design.

Each unit to be provided with 3-phase electrical supply via distribution board off 100A incoming

General note concerning all proposed work which is to be carried out in accordance with current: - Building Regulations

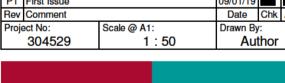
Refer to MEP design.

FIRE DETECTION

- CDM Regulations (2015) - British Standards

 Codes of Practice IEE Regulations

- All Manufacturer's details and instructions for installation of materials, systems and elements used in the build.



Wood Vision, form and function

Proposed Mixed Use Development Station Road Southwold

Southwold Town Council

Building 2 Ground Floor GA Plan & **Building Regulations Specification**

304529-IW-02-00-DR-A-3502 Status: | Purpose of Issue: Information

Building 2 Ground Floor GA Plan

02-00-08 Unit 5 39.16 m²

02-00-05 Tea Room Ingleton