

65000



Membrane set on 20mm sand blinding over consolidated hardcore laid in layers no greater than 150mm. Floor to offices / amenities area to be 100mm thick with 50mm insulation below slab. BLOCKWORK

trims to be fixed to 170\16 Galvanised Zed or Cee Sheeting Rails (butted) bolted to frames at 2.0m ctrs (max.).

To be 140mm thick dense concrete blockwork to perimeter of building (except for doorways), to a level of 1 block above FFL. Internal Compartment walls to be 60 minute firewall to be 140mm dense concrete blockwork forming compartments between units





Scale: 1:100









Building B

Total Floor Area = 748m²



Consisting of 6 Individual Industrial Start up Units

above door heads or byway of ceiling grill ducted to the external air. All Trickle vents to be positioned at 1.75 (minimum) above FFL. AIR INFILTRATION

B. Sealing cladding panels at window / door openings with 6mm mastic bead

H. Applying vapourflex sealant over any breaks in secondary steelwork supporting panels at joints or panel abutment points.

ACCESS / ESCAPE

Personnel doors to be steel with emergency lighting inside & out. All doors to open to level 1500x1500mm concrete plat. External doors fitted with push pad ironmongery to BS EN179:1997 and non maintained emergency lighting inside and out. All escapes to have a Minimum clear opening width of 850mm.

GENERAL

FIRE FIGHTING WATER SUPPLY Units are to be un-heated. Toilets to have a heater with an output of less than 25W/m² for frost protection.

All blockwork to have a minimum of 7N/mm² compressive strength All Mortar to be Designation (iii) to BS5628-1:2005 EXTERNAL WALLS (CLADDING

All side and gable walls to have 80mm thick Kingspan KS1000RW composite panel cladding, down to levels show. All cladding to be complete with flashings &

Sheeting rails to have anti sag system and rail / column stays (at positions indicated) installed. Cladding and rails to be fitted and fixed in accordance with manufacturers written instructions.

Cladding is Low Risk category.

Where the external cladding forms part of a boundary fire wall, then the external sheeting is to provide a 60/30 fire rating. Composite panels are therefore to be upgraded to KS1000RW/FW 80mm composite panels to give the required 60/30 fire rating. Sheeting rails to fire walls to have slotted holes and the supporting steel work (portal frame) is to have 60mins intumescent paint applied. Painting to be up to the underside of haunch where a side column, where wall forms a gable wall then the entire portal frame required to be intumescently painted (including gable columns) Cladding colour to be - MERLN GREY

Scale: 1:100

Trims & Flashings colour to be - GOOSEWING GREY

ROOF To be 80mm thick Kingspan KS1000RW composite panel cladding, complete with flashings & trims to be fixed to 170\16 Galvanised Zed Purlins (Sleeved) bolted to frames at 1.5m ctrs (max.). Purlins to have anti sag system installed. Cladding and rails to be fitted and fixed in accordance with manufacturers written

Cladding is Low Risk category.

Cladding colour to be - MERLN GREY Trims & Flashings colour to be - GOOSEWING GREY

WALL LIGHTS

Walls to be fitted with GRP roof lights supported on purlins at 1.5m ctrs. Wall lights to have a Class '1Y' surface spread of flame. Wall lights locations as shown on plan.

INTERNAL PARTITIONS (to accessible toilets). To be 100mm dense concrete blockwork (built off floor) to a height of 2.4m above FFL. SURFACE WATER DRAINAGE

To be pre-formed plastisol coated gutter complete with pvc downpipes connecting to sub-surface drainage system. All Gutters & downpipes to be fitted and fixed in accordance with manufacturers written instructions.

All surface water drainage to discharge into surface water attenuation system and thereafter to combined sewer with an outflow restricked to 5 l/s/ha. Surface water drainage to be in accordance with General Binding Rules (GBR 10 & 11) of schedule 3 of The Water Environment (Controlled Activities) (Scotland) Regulations 2005 (CAR).

Regulations 2005 (CAR). All surface water discharge subject to Scottish Water Technical Approval. <u>FOUL WATER DRAINAGE / TOILET PROVISION</u> Sinks to have 50mm diam UPVC drain pipe with U bend with Air admittance valves (AAV) fitted to to sink drainage lines. Toilets have 100mm drain set 150mm in from face of wall. 22mm Copper pipe feeding each room 15mm copper pipe feeding each sanitary fitting. All drains run at min 1 in 60 gradient to main sewer line of 110mm diam. UPVC pipe. 110mm Ø Soil vent pipe to be fitted at head of drainage line to allow termination to the external air. SVP to extend a minimum of 600mm above eaves level (and any openings drawing air into the building)

All installation of pipe work to current Building Regulations. Drainage to be tested in accordance with BS EN 12380:2000 & Building Standards Part 3.6. Any drainage to vehicular areas to be laid with 1200mm cover. All under ground drainage to comply with BS EN 752-3, 1997 (amendment 2), BS EN 752-4 1998 & BS EN 1610:1998 All drainage runs to full roddable. All drainage to be set in full granular surround. Drainage to have a min gradient of 1:60.

All foul drainage to discharge to the existing combined sewer system by way of the existing disconnecting manhole on site. All Foul water discharge subject to Scottish Water Technical Approval.

ELECTRICAL

All electrical installations are to designed, constructed, installed and tested in accordance with the recommendations of BS7671:2008, as amended. Certification to be submitted upon completion of the electrical installations by aperson or company having a membership to S.E.L.E.C.T or N.I.C.E.C or other approved Electrical scheme as recognised by the Scottish Building Standards Agency in compliance with Technical Standard 4.5.0. smoke alarms to be ceiling mounted at least 300mm away from any wall or light fitting. Alarms to comply with BS 5446 part 1 1990 and to be interconnected and wired to a protected circuit.

LIGHTING

The lighting design to be in accordance with the Society of Light and Lighting (CIBSE) Code for Lighting 2002. Switching in accordance with the advice and guidance given in the Society of Light and Lighting (CIBSE) Code for Lighting 2002. Emergency Lighting to be in accordance with BS 5266:Part 1:1999 or BS EN 1838:1999 and Building Standards 2.10.

VENTILATION

Ventilation to toilet to be provided by way of extract fans installed in accordance with manufacturer's written instruction

Mechanical extract fan fitted to toilets ducted to external air and wired to light switch

All extract fans to be ceiling mounted and ducted by 100 flexible ducting to external

Any Mechanical Ventilation to be in Accordance with CIBSE Guide B: 2001, Installation and equipment data, section B2, Ventilation and air-conditioning Any Natural Ventilation to be in Accordance with CIBSE AM10: Natural Ventilation in Non-Domestic Buildings (2005) Applications Manual AM10: 2005.

All Ventilation to comply with Building Standards Part 3.14. Trickle ventilation to be by way of Tickle Ventilators to window heads and where there are no windows to the room by way of high level closable ventilators

A. Sealing joints between cladding panels with 6mm butyl strip.

C. Infilling of points where panels meet at corners with alfasbond canister insulation.

D. Sealing at service pipe penetrations through the fabric of the building and around pipe and other service boxing.

E. Fitting of draft exclusion strips in the frames of opening sections of windows / external doors.

F. Fitting of foam fillers where flashings meet cladding panel upstands of profile. G. Infilling of any gaps between panels where applicable.

Insulated sectional doors to be installed as per the floor plan. Doors to have 3 phase electrical operation with manual pull chain override.

All structural and external timbers to be pressure impregnated against insect, rot and fungal attack all finishes to be to satisfaction of client All Exit doors to be readily operable from within the building. All Exit doors to open onto a level plat and be ramped down in Accordance with Part 4.3.10, 4.3.11 & 4.3.12. All Exit Doors to be min. 800mm Clear Opening Building to be designed in Accordance with BS 5250:2002, (Control of Condensation in Buildings). Building is to be partially heated. Building to be Designed in Accordance with BS 8300:2001; Needs for Disabled Persons.

Existing Fire Hydrants to be utilised

HEATING



	DATE:13.11.14
Campbell of Do Consulting Civil and Structura 78 King Street, Crieff, Perthsh	I Engineers
Job No. Drawing Status 4075-13 PLANNING	
Proposed New Industrial Star Consisting of 2 Buildings from	
Ramsays Properties Ltd	
Site & Location Plans, Elevati	ONS & Floor Plans
	DRAWING No. PAPER SIZ
DRAWN SCALE DATE J.Robb As Noted 21.11.1 BUILDING DESIGN CLASSIFICATION D BS5502 Class II Agricultural Image: Classification industrial Domestic Image: Classification industrial	DRAWING No. PAPER SIZ
DRAWN SCALE DATE J.Robb As Noted 21.11.1 BUILDING DESIGN CLASSIFICATION D BS5502 Class II Agricultural S5950 Industrial S5950	DRAWING No. PAPER SIZ 13 01 A0 ESIGN CHECK LEVEL DCL1 - Self Check DCL2 - Simple Check DCL3 - Intermediate Check