P23012 Wingates Unit 3

## **Drawing Register: ABS**

*Please note: All drawings listed below are hyperlinked to the drawings listed. Please click on the drawing title to go directly to the drawing of your choice.* 

## Works Completed:

Warehouse Concrete Floor

Drawing No.	Drawing Title	Rev
P23012-ABS-XX-00-DR-X-0001	Proposed Joint Layout	AB1
P23012-ABS-XX-00-DR-X-0002	Typical Details	AB1



HATCH DENOTES AREA BENEATH UNDERCROFT TO BE LAID ON GAS MEMBRANE. GAS MEMBRANE TO BE SUPPLIED AND INSTALLED BY ACS LININGS PRIOR TO ABS WORKS. MEMBRANE TO EXTEND 1000mm PAST GL '9' & 'E' INTO WAREHOUSE.

## SLAB SPECIFICATION

175mm THICK INTERNAL CONCRETE SLAB

C40 WELL GRADED CONCRETE

1 LAYER OF A142 MESH FABRIC WITH 400mm LAPS (MIN 300mm) PLACED ONTO 40mm SNAKE SPACERS AT 800mm CENTRES AS WORK PROCEEDS

ALL AREAS EXCLUDING THE UNDERCROFT AND OFFICE AREA TO BE LAID ONTO ONE LAYER OF 2000g POLYTHENE WITH 150mm LAPPED & TAPED JOINTS. JOINTS TO BE TAPED USING 75mm PROPRIETARY (GAFFA) TAPE BETWEEN SHEETS ONLY. MEMBRANE AT ANY COLUMN / JUNCTION OR PENETRATIONS TO BE LAPPED UP THE FACE ONLY. UNDERCROFT AREA TO BE LAID ON A GAS MEMBRANE SUPPLIED AND INSTALLED BY ACS LININGS

SURFACE TO RECEIVE A POWER FLOAT FINISH 1 COAT OF SPRAY APPLIED COMBINED CURE AND SURFACE SEALER

LAID UTILISING LASER SCREED

TOLERANCE TR34 (2013) FM2 PROPERTIES E & F SUB-BASE TOLERANCE TO ACHIEVE +/- 10mm WITH AN AVERAGE OF ZERO

## SLAB DESIGN

- THE SLAB CONSTRUCTION INDICATED ON THIS DRAWING FOR THE WAREHOUSING AREA HAS BEEN BASED UPON THE FOLLOWING DESIGN CRITERIA.:-
- UNIFORMLY DISTRIBUTED LOAD 50kn/M<sup>2</sup>
- OR - INDIVIDUAL RACK LEG LOAD OF 70kN
- INDIVIDUAL RACK LEG LOAD OF 70kN
  TAKEN IN A BACK TO BACK CONFIGURATION AT 300mm CENTRES.
   MINIMUM SIZE BASE PLATES OF 100mm X 100mm.
   CENTRE LINE OF RACKING BASE PLATES
- CENTRE LINE OF RACKING BASE PLATES POSITIONED A MINIMUM DISTANCE OF 300mm FROM ANY JOINTS IN THE SLAB.

THE MAXIMUM INDIVIDUAL MHE WHEEL LOAD ACTING IN COMBINATION WITH A SINGLE RACK LEG LOAD (AISLE SIDE) MUST NOT EXCEED 40kN. THE SLAB AS DESIGNED WILL SUSTAIN A LINE LOAD CAPACITY DIRECTLY ADJACENT A FLOOR JOINT OF

25kN/M. WHERE LINE LOADS EXCEED THIS VALUE UNDERSLAB THICKENINGS MAY BE REQUIRED AND SHALL BE DESIGNED AND INSTALLED BY OTHERS PRIOR TO SLAB WORKS COMMENCING. THE SLAB DESIGN IS BASED UPON A MINIMUM MODULUS OF SUB GRADE REACTION ACHIEVING A "K— VALUE" OF 0.054 N/mm³

THE REQUIREMENT FOR ANY UNDERSLAB INSULATION (DESIGNED, SUPPLIED AND INSTALLED BY OTHERS) SHALL BE BASED UPON ACHIEVING AN EQUIVALENT SUB GRADE REACTION AS NOTED ABOVE.

ALLOWANCE HAS BEEN TAKEN FOR WHEEL LOADING ASSOCIATED WITH STANDARD UK HEAVY GOODS VEHICLES DRIVING ON THE SLAB.

LOADING CONDITIONS WITHIN THE DESIGN ARE NOT CONCURRENT BUT ARE ASSUMED TO ACT SEPARATELY UNLESS NOTED OTHERWISE.

REFER TO SEPARATE CALCULATIONS PREPARED BY "KONTRAD LLP – INDUSTRIAL FLOORING CONSULTANTS" FOR FULL DETAILS OF SLAB DESIGN

REFERENCE SHALL ALSO BE MADE TO THE "OPERATION AND MAINTENANCE DOCUMENT" WHICH PROVIDES GUIDANCE ON CLEANING AND ROUTINE INSPECTIONS TO BE CARRIED OUT BY THE END USER.

- PRIOR TO PLACING CONCRETE, ALL ROOF AND WALL SHEETING SHALL BE COMPLETED WHERE PRACTICAL TO PROVIDE PROTECTION FROM THE SUN, WIND AND RAIN. LOADING DOORS SHALL BE FIXED IN PLACED AND OPENINGS SHEETED.
- THE JOINTS ARE TO BE INITIALLY SEALED USING A SEALANT WITH A SHORE "A" HARDNESS IN THE RANGE OF 30–50 & M.A.F IN THE RANGE OF 25%–35%, INSTALLED BY OTHERS (UNLESS NOTED OTHERWISE). THE SEALANT IS DESIGNED TO BE A TEMPORARY APPLICATION AND THE INSPECTION AND MAINTENANCE OF SAID SEALANT IS THE RESPONSIBILITY OF THE TENANT / BUILDING USER. ALL INSPECTION, MAINTENANCE AND CLEANING OPERATIONS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS OF CHAPTER 13, TR34 4TH EDITION 2013. SEALING JOINTS SHOULD BE LEFT AS LATE IN THE CONSTRUCTION PROCESS AS POSSIBLE.

SPACING BETWEEN FIXINGS INTO THE SLAB AND ANY SAWN OR FORMED JOINT IS TO BE A MINIMUM 5 X HOLE DIAMETER AND MAXIMUM 2/3 SLAB DEPTH.

GENERAL NOTES THE SLAB CAN BE USED BY LIGHT TRAFFIC 7 DAYS AFTER IT IS POURED. THE LOADS SHALL NOT EXCEED 30% OF THE DESIGN CAPACITY. THE FLOORS SHALL NOT BE LOADED TO ITS FULL DESIGN CAPACITY REFORE 28 DAYS HAVE PASSED DESIGN CAPACITY REFORE 28 DAYS HAVE PASSED					ABS		ABS BRYMAR FLOORS LTD Jnit 40 Drumhead Road Chorley North Ind Park		CLIENT WINVIC CONSTRUCTION LTD
SINCE POURING.							Chorley		PROJECT TITLE
AREA NUMBERS DO NOT REPRESENT POUR - THE JOINT LAYOUT SHOWN ON THIS DRAWING					FLUORS	'	PR6 /BX		
SEQUENCE BUT ARE FOR IDENTIFICATION HAS NOT BEEN CO-ORDINATED WITH ANY PURPOSES ONLY. RACKING. SHOULD A RACKING LAYOUT BE MADE AVAILABLE PRIOR TO CASTING THE FLOOR SLAB							Tel: 0161 972 5000.	le	WINGATES, PLOT 3, BOLTON
JOINT SEALANT WORKS ARE BY OTHERS THE JOINT POSITIONS CAN BE ADJUSTED TO SUIT					•		=: general@absbrymariloors.co	D.UK	
THE EXACT POSITION OF SHUTTERING/JOINTS AT	AB1	18.04.2024.	AS BUILT STATUS.						
DOORWAYS IS TO BE CONFIRMED ON SITE BY - REFER TO ABS DRAWING P23012-ABS-XX-00- MAIN CONTRACTORS SITE ENGINEER TO SUIT THE DR-X-0002 FOR TYPICAL DETAILS.	C04	22.02.2024.	SLAB SPECIFICATION UPDATED TO INDICATED TAPED MEMBRANE BETWEEN SHEETS.	CATION UPDATED TO INDICATED TAPED ETWEEN SHEETS. NE AREA REDUCED. 1200g POLYTHENE REPLACED WITH 2000g POLYTHENE. PIT ADDED TO PLAN. PLEASE NOTE:- THIS DRAWING WILL BE DEEMED ACCEPTABLE FOR CONSTRUCTION BY THE MAIN CONTRACTOR/CLIENT IF NO COMMENTS TO THE CONTRARY ARE RECEIVED PRIOR TO COMMENCEMENT ON SITE. AS BUILT				DRAWING TITLE	
IT IS THE MAIN CONTRACTORS RESPONSIBILITY TO	C03	19.02.2024.	GAS MEMBRANE AREA REDUCED. 1200g POLYTHENE					PROPOSED JOINT LAYOUT	
ENSURE THAT 'DOCK LEVELLERS' ARE FULLY	C02	07 02 2024							
SHUTTERED AND/OR SEALED TO PREVENT CONCRETE INFILL OR GROUT LOSS DROPPING		07.02.2024.	ELECTRICAL FIT ADDED TO FLAN.						
INTO THE PIT BELOW DURING SLAB PLACEMENT.	C01	31.01.2024.	ISSUED FOR CONSTRUCTION.						PROJECT-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NO
ABS BRYMAR ARE UNABLE TO ACCEPT ANY RESPONSIBILITY FOR LEAKAGES INTO THE PIT.	P01	18.01.2024.	ISSUED FOR APPROVAL.	DRAWN	DATE	SCALE	ABS DRAWING NO.	REV	P23012 - ABS - XX - 00 - DR - X - 0001
	REV	DATE	DESCRIPTION	MT	18.04.2024	DNS	2354 - 01	AB1	

