



RESIDUAL RISK ASSESSMENT

Wherever possible, risk is designed-out of this proposal during the design process. Where this is not possible, the risk will be minimised and any residual risk will be noted and indicated by the symbol.

1. Materials must NOT be stacked or leaned against the edge protection.
2. Site team are to consider the risk of falls from height whilst installing, dismantling and maintaining the support system and edge protection.
3. Alternative methods of preventing fall must be in place whilst edge protection is incomplete. Access should be limited to essential operatives only.
4. Regular inspections are required to ensure the integrity of the system is maintained. Any damaged parts should be replaced at the earliest opportunity. If a hazard is noticed it must be reported to the supervisor immediately.
5. Check concrete strength before Loading Anchors
6. Follow Pour rates indicated on the drawing with attention to concrete temperatures & Rate of Rise Per Hour



Concrete Pressure 56.4KN/m² F/Head
 Max Rate of Pour 2.4mtr per Rise Hour
 Concrete Type Group 4
 Concrete Temperature 15° C



SHUTTER WEIGHT
 4.270 High x 2.440
 = 630 Kg

Heavy Duty Waler Plate

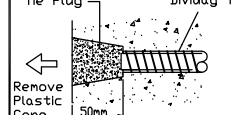
AWL = 90kN *



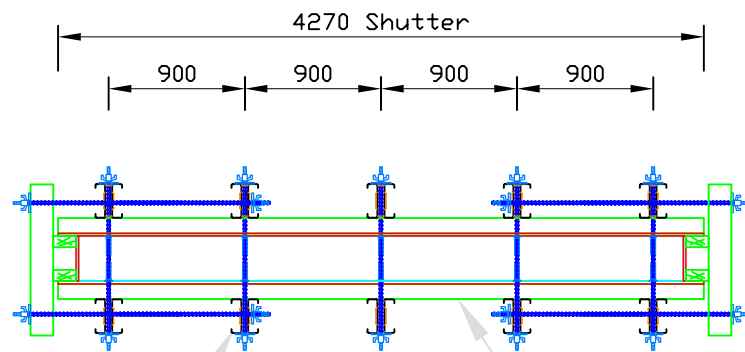
*AWL for 16mm Dividag Tie = 90kN

Tie Plug for 16mm Tie Bar

Fill with Tie Plug Tie left in Dividag Tie



Remove Plastic Cone 22x50mm

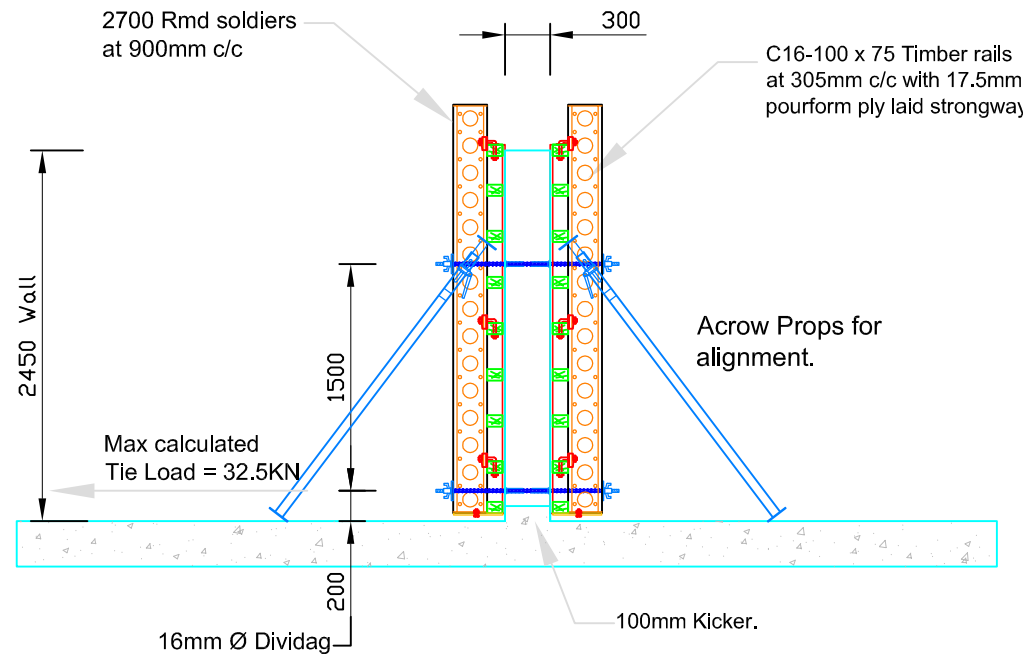


2700 Rmd soldiers at 900mm c/c

C16-100 x 75 Timber rails at 305mm c/c with 17.5mm pourform ply laid strongway.

Plan Layout

Centre Wall Shutter



Section A - A

General Construction Notes

1. CDM Regulations
2. Design risk assessment are conducted throughout the design stage of this project, in accordance with company procedures. Where reasonably practicable, all areas of risk applicable to our design have been identified & noted for action.
3. Basis of Design
4. Imposed Loads
5. Wind loads where applicable have been calculated in accordance with BS 5975 and BS 5973 (CP.3 Chapter V part 2)
6. Timber
7. Plywood 19mm Douglas Fir (unless otherwise noted). Plywood laid strongway. Deflection has been limited to 1/270th of the span for each member.
8. Modifications
9. Foundations/Support
10. Temporary working platforms
11. Monitoring
12. Edge Protection
13. Dismantling Procedures
14. Specialist Contractor to ensure that the Falsework and Formwork is dismantled in a safe manner, by competent personnel, as stated in the method statement
15. See note 8.
16. This drawing to be read in conjunction with:-

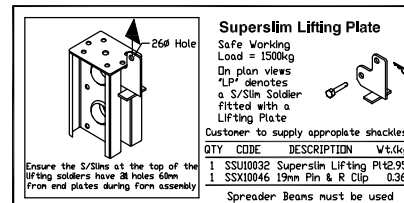
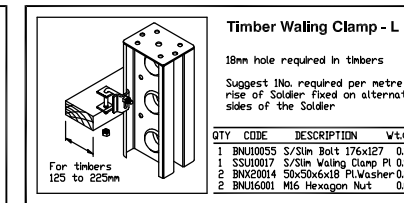
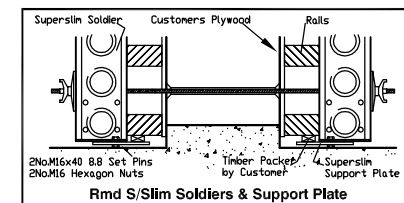
ERECTION CONSIDERATIONS

1. Specialist Contractors to ensure that Falsework & Formwork is assembled in a safe manner, by competent personnel, as stated in the method statement on the erection and dismantling of equipment.
2. Unless otherwise noted no sole plates or other means of spreading the imposed loads are supplied. The client must ensure that the foundations provided are adequate. Where equipment is supported, suspended, anchored or tied to an existing structure on the ground, the client must ensure that the structure or ground is adequate to safely support the additional imposed loads.
3. Specialist Contractor to determine requirement for Backpropping.
4. Unless specifically stated, it is assumed that any other working platforms (for erection & dismantling purposes) will be designed, supplied and fitted by others, all tube and/or fittings to comply with BS 1139
5. Primary beams to be connected by 2 No. fixings per leg. Secondary beams to be connected at intersections with all primary beams by means of 1 No. Clamp.
6. Vertical legs/extension pieces to be connected with 4 No. M12 x 35 nuts & bolts unless stated otherwise.
7. All narrow width Tables/Supports should be stabilized against overturning from either wind force or horizontal loadings due to construction loads.
8. Narrow width Supports should also be stabilized against overturning during erection & dismantling.
9. The user to ensure a planned maintenance and inspection scheme is in operation to reflect the use of the system.
10. Adequate edge protection or fall preventative method must be in place where access and egress of operatives is provided by the system.
11. Specialist Contractor to ensure that the Falsework and Formwork is dismantled in a safe manner, by competent personnel, as stated in the method statement
12. See note 8.
13. This drawing to be read in conjunction with:-

PRELIMINARY



CONTRACT		Minworth STW	
TITLE		Aeration Tank Walls Rmd soldiers & Timber rails	
(A3 Sheet) SCALE		1/50 & 1/75	
STATUS		PRELIMINARY ISSUE	
APPROVED FOR CONST.		YES	
DESIGNED	RAP	DRG No.	MCH/RP/MW 01
DRAWN	RAP		
DATE	30/4/12	Revision	
CHECKED		-	



QTY	CODE	DESCRIPTION	VL (kg)
1	SSU10032	Superslim Lifting Plate	142.95
1	SSX10046	19mm Pin & R Clip	0.36

Spreader Beams must be used

QTY	CODE	DESCRIPTION	VL (kg)
1	BNJ10055	S/Slim Bolt 176x127	0.35
1	SSU10017	S/Slim Waling Clamp Pl 0.91	
2	BNX20014	50x50x6x18 PL Washer 0.22	
2	BNJ16001	M16 Hexagon Nut	0.02