

REFERENCED DOCUMENTS AND DRAWINGS:

- STRUCTURAL CERTIFICATE S11090: MILANOVIC NEALE CONSULTING ENGINEERS
- SAP-OUTERSCAF-V2 OUTER SCAFFOLD DIMENSIONS & WEIGHTS
- LIFT PLAN AND STAIR WEIGHTS: LP-SSA9STEP600WIDESTAIRS-V1
- ASSEMBLY GUIDELINES FOR OUTER FORM SCAFFOLD & STAIRS

USING AN EXCAVATOR FOR LIFTING FORMS

USING AN EXCAVATOR AS A CRANE (OR FOR LIFTING PURPOSES) IN AUSTRALIA IS PERMISSIBLE, BUT IT MUST COMPLY WITH SPECIFIC LEGAL, SAFETY, AND OPERATIONAL REQUIREMENTS UNDER AUSTRALIAN LEGISLATION AND STANDARDS. AN EXCAVATOR MAY NOT BE ABLE TO SAFELY LIFT ALL SIZES OF FORMS INTO POSITION. A MOBILE CRANE MAY BE REQUIRED FOR INSTALLING SOME FORM SIZES. THIS NEEDS TO BE TAKEN INTO ACCOUNT AT THE PLANNING STAGE. FURTHER LIFT STUDY, PLANNING OR 3RD PARTY ENGINEER SIGN OFF IS THE END USERS RESPONSIBILITY.

USING AN EXCAVATOR FOR LIFTING PURPOSES IT MUST MEET THE FOLLOWING REQUIREMENTS:

- WORK HEALTH AND SAFETY (WHS) REGULATIONS
- AUSTRALIAN STANDARDS – NOTABLY AS 1418.8: CRANES, HOISTS AND WINCHES – SPECIAL PURPOSE APPLIANCES
- MANUFACTURER'S SPECIFICATIONS AND LIMITATIONS
- STATE-SPECIFIC GUIDELINES (SUCH AS SAFEWORK NSW, WORKSAFE VIC, ETC.)

1. DESIGN & CAPACITY

- THE EXCAVATOR MUST BE DESIGNED AND RATED FOR LIFTING TASKS.
- A LIFTING POINT MUST BE PROVIDED AND RATED BY THE MANUFACTURER.
- THE LIFTING CAPACITY CHART (LOAD CHART) MUST BE AVAILABLE AND VISIBLE IN THE CAB.

2. LIFTING LIMITATIONS

- LIFTING MUST NOT EXCEED 75% OF THE EXCAVATOR'S TIPPING LOAD.
- YOU MUST HAVE LOAD CHARTS CERTIFIED AND, IF REQUIRED, LIFTING ATTACHMENTS ENGINEERED AND TESTED.

3. LIFTING EQUIPMENT

- CHAIN SLINGS MUST COMPLY WITH AS 3775.1 & 2
- REGULAR INSPECTION AND TAGGING OF LIFTING GEAR IS MANDATORY FOLLOW THE RECOMMENDATIONS IN AS3775.2 APPENDIX C, SITE EQUIPMENT INSPECTION REQUIREMENTS OR CONTACT YOUR NEAREST LIFTING EQUIPMENT SUPPLIER FOR ADVICE IN RELATION TO EQUIPMENT INSPECTION CRITERIA

4. COMPETENCY

- THE OPERATOR MUST BE COMPETENT AND TRAINED TO PERFORM LIFTING TASKS.
- THE PERSON SLINGING THE LOAD DOES NOT NEED A DOGMANS TICKET IF THEY ARE CONSIDERED A COMPETENT PERSON AND THE LIFT IS STRAIGHTFORWARD. ANY LIFTS THAT ARE NOT IN THE OPERATORS LINE OF SIGHT OR REQUIRE ADJUSTMENT OF CHAIN LEGS DUE TO THE CENTRE OF GRAVITY OF THE FORMWORK A LICENSED DOGGER OR RIGGER IS REQUIRED FOR THE LIFT. FOR LIFTS NOT IN THE LINE OF SIGHT THE DOGMAN MUST USE WHISTLE SIGNALS OR RADIO FOR COMMUNICATION WITH THE OPERATOR. THE OPERATOR MUST KNOW WHISTLE SIGNALS IF THIS IS USED AS A MEANS OF SIGNALING.

5. LIFT PLAN & RISK ASSESSMENT

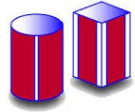
- A LIFTING PLAN, JSA, OR SWMS IS REQUIRED—ESPECIALLY FOR HIGH-RISK WORK.
- CONTROLS MUST BE IN PLACE TO AVOID OVERHEAD LIFTING OF PERSONNEL, LOAD SWING, OR COLLISION RISKS.

WHAT'S NOT ALLOWED?

- HOMEMADE LIFTING POINTS OR NON-RATED ATTACHMENTS.
- LIFTING WITHOUT A LOAD CHART OR OUTSIDE THE RATED CAPACITY.
- USING AN EXCAVATOR AS A CRANE ON SLOPING, UNSTABLE, OR UNEVEN GROUND WITHOUT PROPER PLANNING.
- LIFTING OVER PEOPLE – THIS IS A CRITICAL SAFETY BREACH UNDER WHS LAWS.

USING A CRANE FOR LIFTING FORMS

WHERE A CRANE IS TO BE USED FOR LIFTING FORMS INTO PLACE IT IS THE END USERS RESPONSIBILITY IN ENSURING THAT THE CRANE COMPANY USES THIS LIFT PLAN AS A GUIDE IN ASSESSING CRANE SUITABILITY TO LIFT AND PLACE THE FORM WITHIN THE REQUIRED RATED CAPACITY OF THE CRANE, AND PROVIDING ALL OTHER DOCUMENTATION ASSOCIATED WITH THE LIFT.

1	ISSUED FOR CONSTRUCTION	9/3/26	PW	<b>GENERAL NOTES</b> - THIRD ANGLE PROJECTION UNLESS NOTED - REMOVE ALL SHARP EDGES, CORNERS & DEBURR HOLES - LINEAR DIMENSIONS IN mm UNLESS NOTED - BEND ANGLES ARE INTERNAL UNLESS NOTED - WELDS TO CONFORM TO AS 1554.1:2000 UNLESS NOTED - DO NOT SCALE DRAWING IF IN DOUBT ASK - NOT APPROVED FOR CONSTRUCTION UNLESS MARKED ON THE DRAWING	<b>TOLERANCES</b> UNLESS NOTED OR STATED ON DRAWING	Client MANHOLE FORM HIRE	 <b>MANHOLE FORM HIRE</b>	Newb Office: 2 Freight Street, Yatala Qld 4207, Aust Ph: 1500 543 676 Other Locations 3 Kommer Place, St Marys NSW 2760 10 Fitzgerald Road, Leventon North VIC 3026 Web: manholeformhire.com.au Email: info@manholeformhire.com.au	1/2
0	INITIAL DRAWING	7/1/26	PW			Drawing No. LP-FORMSCAFFOLD-V2			
REV	DESCRIPTION	DATE	DRAWN			Description OUTER FORM WITH SCAFFOLD FULL & PARTIAL LIFT PLAN			
REVISION HISTORY				THE INFORMATION CONTAINED WITHIN THIS DRAWING IS CONFIDENTIAL AND IS THE SOLE PROPERTY OF MANHOLE FORM HIRE. ANY USE, DUPLICATION, RETENTION OR TRANSMITTAL TO OTHERS WITHOUT WRITTEN PERMISSION OF MANHOLE FORM HIRE IS PROHIBITED. SOME PRODUCTS CONTAINED WITHIN DRAWINGS ARE COVERED BY AUSTRALIAN AND INTERNATIONAL PATENTS.					

APPROXIMATE LEG LENGTH		
INNER FORM	OUTER FORM	CHAIN LEG LENGTH MINIMUM
900	1200	2M
1050	1350	2M
1200	1450	2M
1350	1500	2M
1500	1600	2M
1600	1650	2.5M
1650	1700	2.5M
1800	1800	2.5M
2100	1950	2.5M
2400	2000	2.5M
2700	2100	3M
2800	2200	3M
2900	2250	3M
3000	2300	3M
3400	2400	3M
3600	2450	3M
4000	2550	3.5M
-	2600	3.5M
-	2700	4M
-	2800	4M
-	2900	4M
-	3000	4M
-	3300	4.5M
-	3600	4.5M
-	3800	5M
-	4200	5M
-	4600	5.5M
-	5100	6M
-	5600	7M
-	5700	8M

**LIFTING NOTES:**

**RECOMMENDED CHAIN SLING:**

4 LEG 8MM GRADE 100 CHAIN SLING WITH LATCH HOOKS & SHORTENERS.

CHAIN LEG LENGTH REQUIRED WILL VARY DEPENDING ON THE CONFIGURATION AND THE CENTRE OF GRAVITY IF IT IS A FULL SCAFFOLD OR PARTIAL SCAFFOLD BEING LIFTED.

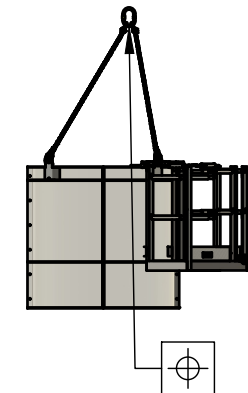
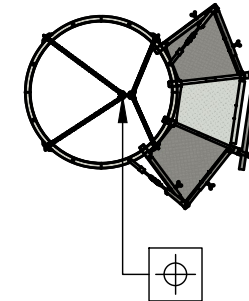
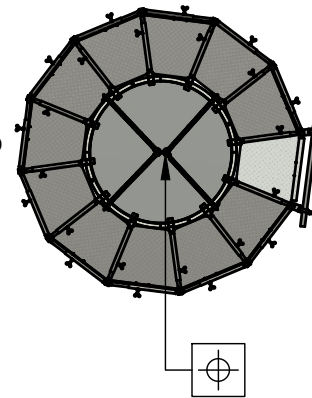
CHAIN LEGS MAY BE NEED TO BE SHORTENED FOR A PARTIAL SCAFFOLD IN ORDER FOR THE LOAD TO BE LIFTED LEVEL.

ENSURE THAT THE CHAIN ANGLE DOES NOT FALL BELOW 60° FROM HORIZONTAL.

ENSURE THAT PRIOR TO LIFT THAT THE WEIGHT OF THE FORM AND THE SCAFFOLD CONFIGURATION HAS BEEN CALCULATED TO ENSURE THAT THE CHAIN SLING IS WITHIN THE WLL OF THE CHAIN SLING IF USING A GRADE 80 CHAIN SLING.

TO CALCULATE A PARTIAL SCAFFOLD REFER TO PAGES 5 & 6 OF SAP-OUTERSCAF DRAWING AND TAKE THE WEIGHT OF THE 1.2 OR 1.5M AND MINUS THE FULL SCAFFOLD AND ADD THE PARTIAL WEIGHT SCAFFOLD TO CALCULATE THE NEW WEIGHT OF THE LOAD.

**FULL SCAFFOLD & PARTIAL SCAFFOLD ASSEMBLY CENTRE OF GRAVITY**



NOTE: CENTRE OF GRAVITY WILL CHANGE DEPENDING ON THE CONFIGURATION.

**GENERAL NOTES**

- THIRD ANGLE PROJECTION UNLESS NOTED
- REMOVE ALL SHARP EDGES, CORNERS & DEBURR HOLES
- LINEAR DIMENSIONS IN mm UNLESS NOTED
- BEND ANGLES ARE INTERNAL UNLESS NOTED
- WELDS TO CONFORM TO AS 1554.1:2000 UNLESS NOTED
- DO NOT SCALE DRAWING IF IN DOUBT ASK
- NOT APPROVED FOR CONSTRUCTION UNLESS MARKED ON THE DRAWING

**TOLERANCES**

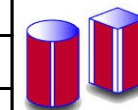
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Client  
**MANHOLE FORM HIRE**

Drawing No.  
**LP-FORMSCAFFOLD-V2**

Description  
**OUTER FORM WITH SCAFFOLD FULL & PARTIAL LIFT PLAN**



**MANHOLE FORM HIRE**

Head Office:  
Freight Street, Yatala Qld 4207, Aust  
Ph: 1500 643 676  
Other Locations  
Korinner Place, St Marys NSW 2760  
10 Fitzgerald Road, Leventon North VIC 3026  
Web: manholeformhire.com.au Email: info@manholeformhire.com.au