

9 March 2026

Manhole Form Hire
2 Freight Street
YATALA QLD 4207

**STRUCTURAL CERTIFICATE
OUTER FORMWORK SCAFFOLD**

To whom it may concern,

MNCE have undertaken a structural review of the Manhole Form Hire Outer Scaffold system, including its typical configuration, loading assumptions and structural capacity in accordance with the following Australian Standards:

AS/NZS 1170.0 – 2002	Structural design actions: General principles
AS/NZS 1170.1 – 2002	Structural design actions: Permanent, imposed and other actions
AS 1576.1 – 2018	Scaffolding: General requirements
AS 3610 – 2018	Formwork for concrete
AS 4100 – 2020	Steel structures
AS 4576 – 2020	Guidelines for scaffolding
AS 4600 – 2018	Cold-formed steel structures

Referenced Documentation

This certification applies to the Manhole Form Hire Outer Formwork Scaffold System as illustrated in the following document:

- SAP-OUTERSCAF-V2, Revision 2, Dated 09/03/2026 – Outer Scaffold Dimensions, Component Quantities & Weights

This drawing provides a general arrangement of the scaffold system and identifies the major components comprising the proprietary system. This should be read in conjunction with the assembly guidelines provided by MFH.

System Classification and Loading

Based on the above assessment, the external scaffolding system:

- Complies with the relevant Australian Standards listed above when assembled in accordance with Manhole Form Hire's assembly guidelines.
- May be classified as a Light Duty Category scaffold.

The following loading limits apply:

- Maximum platform load: 225 kg total per scaffold segment
- Maximum point load: 120 kg



Assembly Requirements

The scaffold system shall be installed in accordance with the Manhole Form Hire assembly instructions and the following requirements:

- Partial scaffolding systems shall be constructed with a minimum of three bays.
- Lateral stability braces shall be installed where required as part of the system configuration.
- All components shall be genuine Manhole Form Hire system components.

Limitations

This certification is provided on the basis that:

- The scaffold system is assembled using the proprietary components supplied by Manhole Form Hire.
- The scaffold system is erected by competent persons in accordance with relevant Australian Standards and safe work practices.
- Site-specific factors including foundation conditions, crane or excavator lifting operations, and temporary works stability remain the responsibility of the installer or principal contractor.

Where site conditions or loading conditions differ from those assumed in the design, additional engineering assessment may be required.

Conclusion

Subject to the above conditions, the Manhole Form Hire Outer Formwork Scaffold System, when installed in accordance with the referenced documentation and assembly guidelines, is considered structurally adequate for the intended purpose.

We trust that the above is adequate for your requirements. Should you have any queries please do not hesitate to contact our office.

Yours faithfully,

Romain Decommer
Structural Engineer (RPEQ 17323)
Structural Office Manager
Milanovic Neale Consulting Engineers

SCAFFOLD SYSTEM

MANHOLE FORM HIRE OUTER FORM SCAFFOLDING SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING AUSTRALIAN STANDARDS:

1. AS/NZS 1170.0 – 2002 STRUCTURAL DESIGN ACTIONS: GENERAL PRINCIPLES
2. AS/NZS 1170.1 – 2002 STRUCTURAL DESIGN ACTIONS: PERMANENT, IMPOSED AND OTHER ACTIONS
3. AS 4100 – 1998 STEEL STRUCTURES
4. AS 4600 – 2018 COLD-FORMED STEEL STRUCTURES
5. AS/NZS 1576.1 – 2010 SCAFFOLDING GENERAL REQUIREMENTS

THE SCAFFOLD SYSTEM, WHEN CONSTRUCTED IN ACCORDANCE WITH MANHOLE FORM HIRE OUTER FORM SCAFFOLD ASSEMBLY INSTRUCTIONS WILL COMPLY WITH THE AUSTRALIAN STANDARDS LISTED ABOVE AND CAN BE CLASSIFIED AS A "LIGHT DUTY CATEGORY".

COMBINED WEIGHT OF THE PERSONS, MATERIALS, EQUIPMENT AND TOOLS ON ONE STAIR TREAD MUST NOT EXCEED 225 KG.

FOLLOW MANHOLE FORM HIRE'S ASSEMBLY INSTRUCTIONS FOR SCAFFOLD SYSTEMS AND ENSURE THAT YOU HAVE ALL CONTROLS IN PLACE AS OUTLINED IN THE ASSEMBLY INSTRUCTIONS.

STAIRS

SAFE SMART ACCESS STAIRS WITH SCAFFOLD TREAD TO BE USED ONLY FOR CONNECTION TO SCAFFOLDING SYSTEM. 9 STEP OPTION IS THE SUPPLIED SIZE BUT OTHER OPTIONS CAN BE USED DEPENDING ON THE SITES ACCESS REQUIREMENTS. SCAFFOLD TREAD IS A REQUIREMENT FOR OTHER SIZES FOR THE TOP STEP TO ALLOW CONNECTION. A 100MM GAP OR LESS MUST BE MAINTAINED AT THE TOP OF THE HANDRAIL TO SCAFFOLD. REFER PAGE 2 DRAWING FOR NOTE.

FORM DRUMS

1. DESIGNED IN ACCORDANCE WITH AS4100-2020 STEEL STRUCTURES
2. LOADING ASSESSED IN ACCORDANCE WITH AS3610 FORMWORK CODE FOR CONCRETE USING THE FOLLOWING PARAMETERS
 - MAX POUR RATE OF 3M/HR
 - MAX POUR HEIGHT OF 3M
 - CONCRETE DENSITY OF 2400KG/M3
 - TEMPERATURE OF 25°C
3. PANELS ARE CERTIFIED FOR LOADING IMPOSED BY 3.0M MAXIMUM FULL HEIGHT OF WET NORMAL WEIGHT CONCRETE. ADDITIONAL LOADS (INCLUDING WIND LOADS) SHALL BE ASSESSED ON A SITE SPECIFIC BASIS
4. FORMS ARE TO BE SUPPORTED/PROPPED IN A MANNER APPROPRIATE TO THE SITE CONDITIONS AND IN LINE WITH AS3610. THE STABILITY OF THE FORMS REMAINS THE RESPONSIBILITY OF THE INSTALLER.

REFERENCED DOCUMENTS AND DRAWINGS:

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

RPEQ: ROMAIN DECOMMER
RPEQ NO.: 17323
SIGNATURE: 

LIFTING OPERATIONS

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 DOGMAN'S TICKET IF THEY ARE CONSIDERED A COMPETENT PERSON AND THE LIFT IS STRAIGHTFORWARD. ANY LIFTS THAT ARE NOT IN THE OPERATOR'S 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

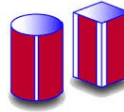
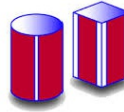
- A LIFTING PLAN, JSA, OR SWMS IS REQUIRED—ESPECIALLY FOR HIGH-RISK WORK.
- CONTROLS MUST BE IN PLACE TO AVOID OVERHEAD LIFTING OF PERSONNEL, LOAD SWING, OR COLLISION RISKS.

WHAT'S NOT ALLOWED?

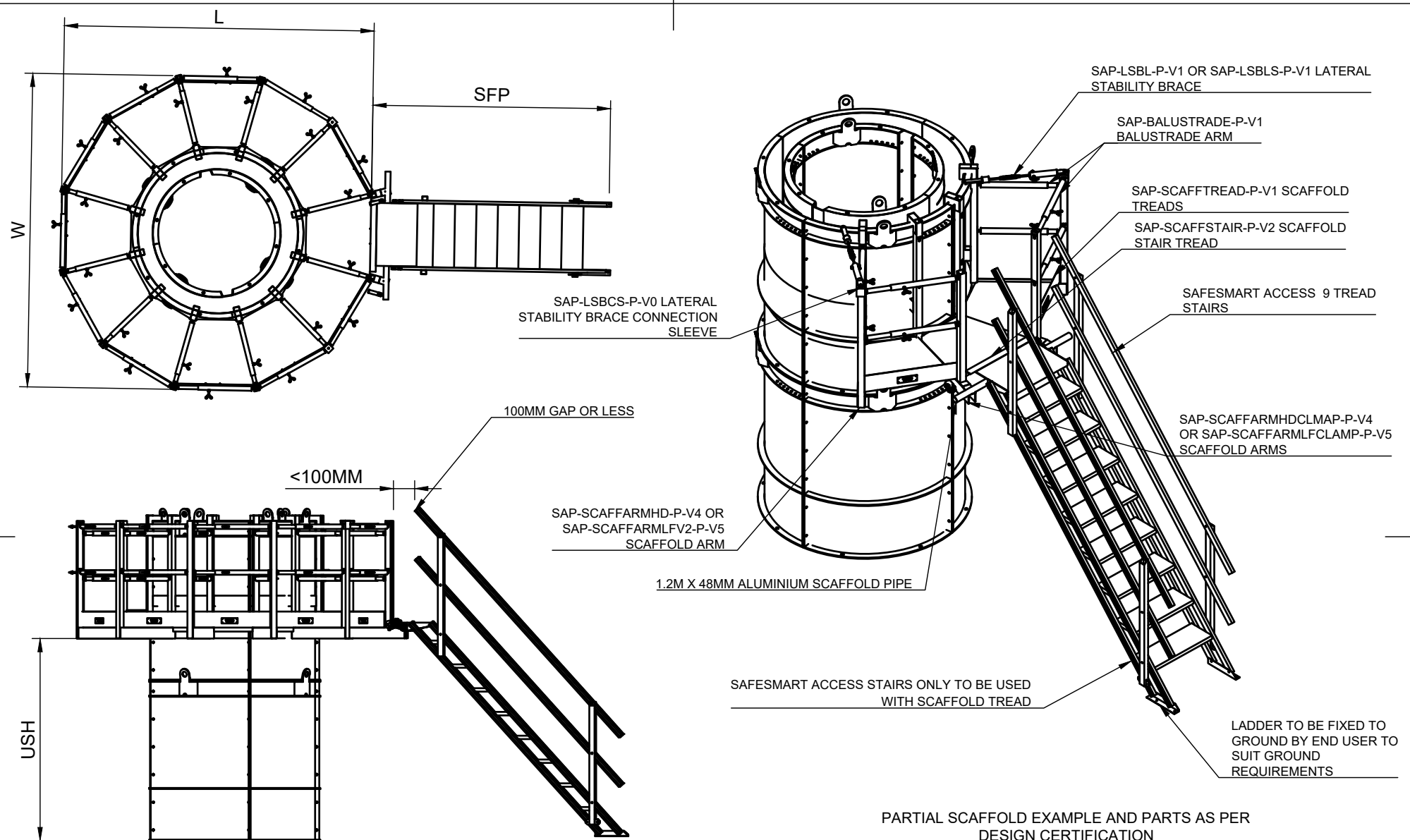
- HOMEMADE LIFTING POINTS OR NON-RATED ATTACHMENTS.
- LIFTING WITHOUT A LOAD CHART OR OUTSIDE THE RATED CAPACITY.
- USING AN EXCAVATOR AS A CRANE ON SLOPING, UNSTABLE, OR UNEVEN GROUND WITHOUT PROPER PLANNING.
- LIFTING OVER PEOPLE – THIS IS A CRITICAL SAFETY BREACH UNDER WHS LAWS.

USING A CRANE FOR LIFTING FORMS

WHERE A CRANE IS TO BE USED FOR LIFTING FORMS AND SCAFFOLD INTO PLACE IT IS THE END USER'S RESPONSIBILITY IN ENSURING THAT THE CRANE COMPANY USES INFORMATION ON MANHOLE FORM HIRE FORM DRUMS AND SCAFFOLD WEIGHTS AS A GUIDE IN ASSESSING CRANE SUITABILITY.

REV	DESCRIPTION	DATE	DRAWN	GENERAL NOTES	TOLERANCES	Client	 MANHOLE FORM HIRE	
2	ISSUED FOR CONSTRUCTION	9/3/26	PW	- 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	UNLESS NOTED OR STATED ON DRAWING	MANHOLE FORM HIRE	 MANHOLE FORM HIRE	
1	ISSUED FOR CONSTRUCTION	5/3/26	PW			Drawing No. SAP-OUTERSCAF-V2		
Description OUTER SCAFFOLD DIMENSIONS COMPONENT QUANTITIES & WEIGHTS							<small> Melbourne Office: 2 Freight Street, Ylatata Qld 4207, Aust Ph: 1500 543 676 Other Locations 3 Kommer Place, St Marys NSW 2760 10 Fitzgerald Road, Leveon North VIC 3026 Web: manholeformhire.com.au Email: info@manholeformhire.com.au </small>	
REVISION HISTORY								1/6

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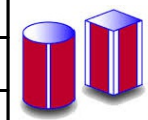
PARTIAL SCAFFOLD EXAMPLE AND PARTS AS PER DESIGN CERTIFICATION

RPEQ: ROMAIN DECOMMER
 RPEQ NO.: 17323
 SIGNATURE:

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TOLERANCES
 UNLESS NOTED OR STATED ON DRAWING

Client
MANHOLE FORM HIRE
 Drawing No.
SAP-OUTERSCAF-V2
 Description
OUTER SCAFFOLD DIMENSIONS
COMPONENT QUANTITIES & WEIGHTS



MANHOLE FORM HIRE

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SCAFFOLD DIMENSION COMPONENTS NUMBERS & WEIGHTS

OUTER DRUM ØMM	L (mm)	W (mm)	STAIR FOOT PRINT (SFP) (mm)	1.5M @ 3M HIGH FORM UNDERSIDE SCAFFOLD HEIGHT (USH) (mm)	1.2M @ 2.4M HIGH FORM UNDERSIDE SCAFFOLD HEIGHT (USH) (mm)	WEIGHT 1.2H FORM + SCAFFOLD (KG)	WEIGHT 1.5H FORM + SCAFFOLD (KG)	FULL SCAFFOLD TARE WEIGHT
1200	2926	2926	3000	1885	1585	626	662	406
1350	3076	3076	3000	1885	1585	650	686	406
1450	3176	3176	3000	1885			702	406
1500	3226	3226	3000	1885	1585	670	710	406
1600	3326	3326	3000	1885			760	406
1650	3376	3376	3000	1885			766	406
1700	3426	3426	3000	1885			772	406
1800	3526	3526	3000	1885			790	406
1950	3676	3676	3000	1885	1585	928	1030	406
2000	3726	3726	3000	1885			790	406
2100	3826	3826	3000	1885			1030	598
2200	3926	3926	3000	1885			1048	598
2250	3976	3976	3000	1885	1585	988	1054	598
2300	4026	4026	3000	1885			1060	598
2400	4126	4126	3000	1885			1078	598
2450	4176	4176	3000	1885			1090	598
2550	4276	4276	3000	1885			1070	534
2600	4326	4326	3000	1885			1070	534
2700	4426	4426	3000	1885			1110	534
2800	4526	4526	3000	1885			1046	534
2900	4626	4626	3000	1885			1054	534

NOTE:

TO CALCULATE A PARTIAL SCAFFOLD 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. FOR PARTIAL SCAFFOLD WEIGHTS REFER PAGES 5&6 FOR WEIGHTS

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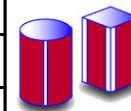
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Client
MANHOLE FORM HIRE

Drawing No.
SAP-OUTERSCAF-V2

Description
**OUTER SCAFFOLD DIMENSIONS
COMPONENT QUANTITIES & WEIGHTS**



**MANHOLE
FORM HIRE**

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3000	4726	4726	3000	1885	1585	1126	1190	534
3300	5026	5026	3000	1885			1494	790
3600	5326	5326	3000	1885			1620	790
3800	5526	5526	3000	1885			1526	790
4200	5926	5926	3000	1885			1812	982
4600	6326	6326	3000	1885			2098	790
5100	6826	6826	3000	1885			2206	790
5700	7426	7426	3000	1885			2350	790

NOTE:

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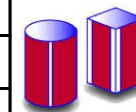
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SCAFFOLD DIMENSION COMPONENTS NUMBERS & WEIGHTS

OUTER DRUM ØMM	# OF BAYS	STAIR ARMS	SCAFF TUBE	# STANDARD ARMS	# BALUSTRADE RAILS	TOTAL WEIGHT
1200-2000	12	2	1	10	24	406
	11	2	1	10	24	396
	10	2	1	9	22	364
	9	2	1	8	20	332
	8	2	1	7	18	300
	7	2	1	6	16	268
	6	2	1	5	14	236
	5	2	1	4	12	204
	4	2	1	3	10	172
	3	2	1	2	8	140
2100-2450	18	2	1	16	36	598
	17	2	1	16	36	588
	16	2	1	15	34	556
	15	2	1	14	32	524
	14	2	1	13	30	492
	13	2	1	12	28	460
	12	2	1	11	26	428
	11	2	1	10	24	396
	10	2	1	9	22	364
	9	2	1	8	20	332
	8	2	1	7	18	300
	7	2	1	6	16	268
	6	2	1	5	14	236
	5	2	1	4	12	204
	4	2	1	3	10	172
	3	2	1	2	8	140
2550-3000	16	2	1	14	30	528
	15	2	1	14	30	518
	14	2	1	13	30	492
	13	2	1	12	28	460
	12	2	1	11	26	428
	11	2	1	10	24	396
	10	2	1	9	22	364
	9	2	1	8	20	332
	8	2	1	7	18	300
	7	2	1	6	6	268
	6	2	1	5	14	236
	5	2	1	4	12	204
	4	2	1	3	10	172
	3	2	1	2	8	140

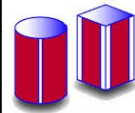
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4200	30	2	1	28	60	982
	29	2	1	28	60	972
	28	2	1	27	58	940
	27	2	1	26	56	908
	26	2	1	25	54	876
	25	2	1	24	52	844
4200	24	2	1	23	50	812
3300/3600/3800/4600/ 5100 /5700	24	2	1	22	48	790
3300/3600/3800/4600 4200 / 5100 /5700	23	2	1	22	48	780
	22	2	1	21	46	748
	21	2	1	20	44	716
	20	2	1	19	42	684
	19	2	1	18	40	652
	8	2	1	17	38	620
	17	2	1	16	36	588
	16	2	1	15	34	556
	15	2	1	14	32	524
	14	2	1	13	30	492
	13	2	1	12	28	460
	12	2	1	11	26	428
	11	2	1	10	24	396
	10	2	1	9	22	364
	9	2	1	8	20	332
	8	2	1	7	18	300
	7	2	1	6	16	268
	6	2	1	5	14	236
	5	2	1	4	12	204
	4	2	1	3	10	172
	3	2	1	2	8	140

GENERAL NOTES

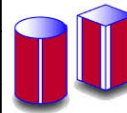
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