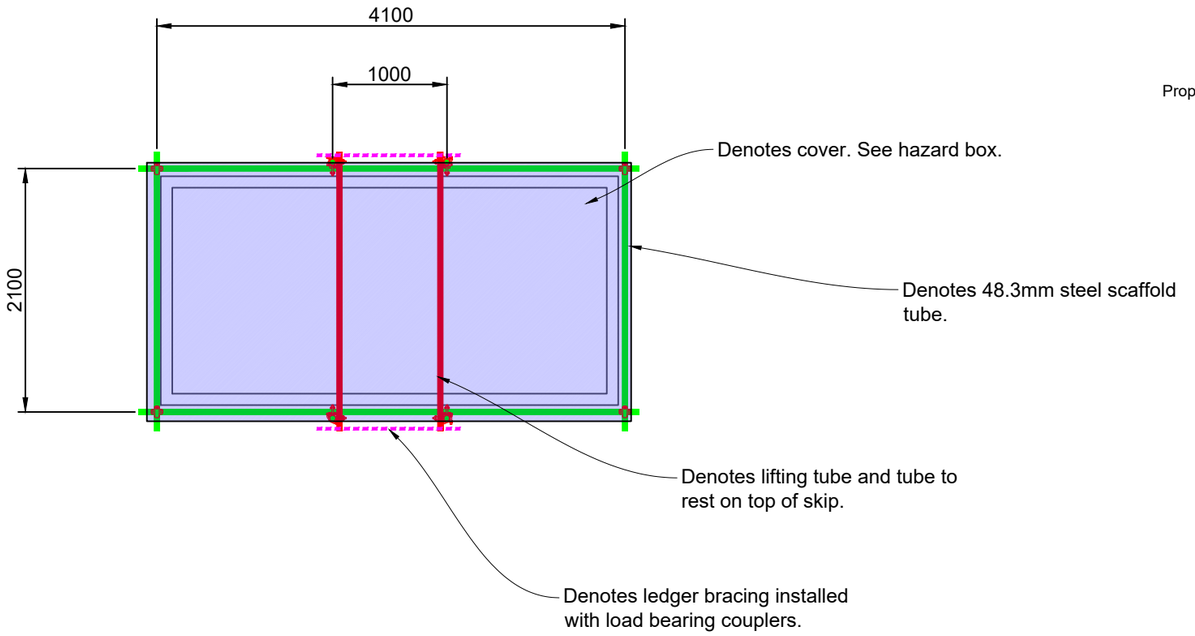
Scaffold is to be used as skip cover only and as such no contractor access has been allowed for within the design.

Main client responsible for the maneuvering of the skip cover safely. Skip cover to be lifted by tubes depicted in red.

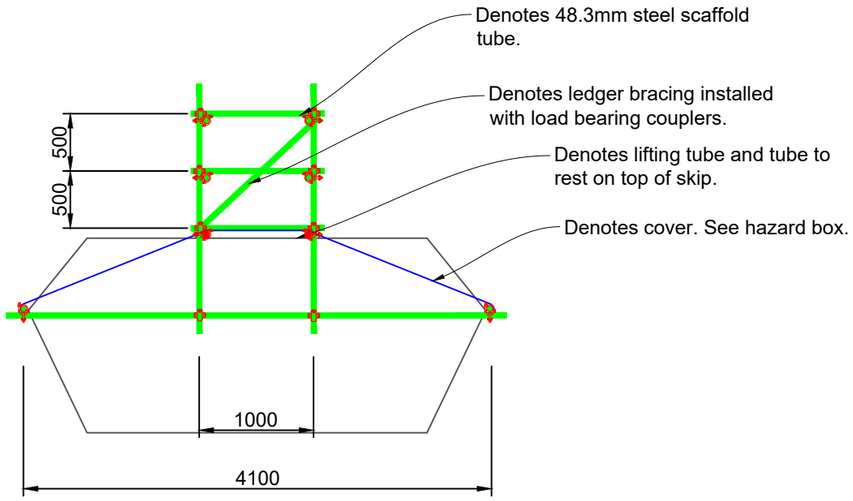
Class 'B' 90° Couplers to be used throughout.

Dimensions based on 12 yard skip. Skip cover may be reduced in size to suit size of skip.

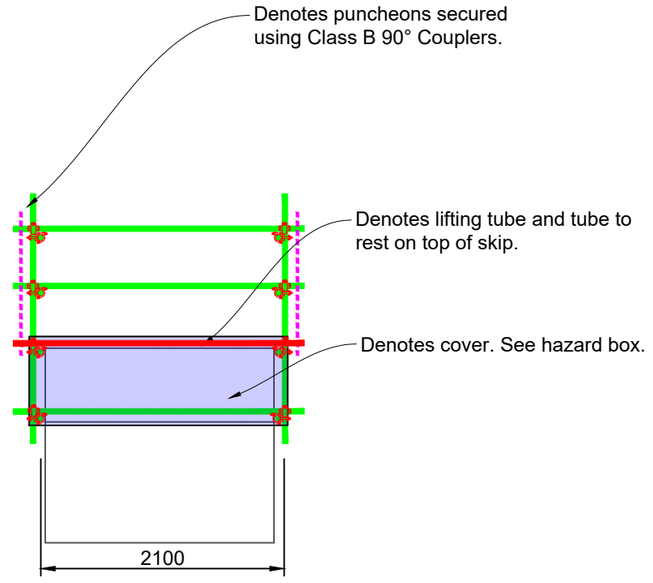
Skip cover to be securely tied to the lower frame using suitablee cords.



Plan View



Side Elevation



Front Elevation

Drawing Status:

Proposal / For Comment

SCAFFOLDING ASSOCIATION Associate Member

General notes:

Property
This drawing remains the property of Oryx Scaffold Design Ltd. No unauthorised use, copy or disclosure may be made without written permission from Oryx Scaffold Design Ltd.

Basis of design
This drawing has been prepared from the information supplied to us by, or on behalf of the contractor, who should check that the requirements have been correctly interpreted and that loading, dimensions, lift heights, bay sizes and erection sequences etc, are as required and practicable.

This drawing has been prepared in accordance with the following:

BS EN:12811-1 & BS EN:12811- 2
Working at Height Regulations 2005;
BS EN 1991-1-4:2005+A1:2010
BS EN 1991-1-3:2003

Reference has been made to the following Documentation

BS: 5975: 2019
BS: 5973: 1993
NASC Document *TG20:21.*

All scaffold materials forming this structure are to comply with *BS EN:12811-1 & BS: 5973:1993;* All proprietary equipment must be used in accordance with the manufacturers information.

Design loads
This scaffold has been designed for the following:
Scaffold is to be used as skip cover only and as such no contractor access has been allowed for within the design.

Working platforms
All working platforms must comply with the statutory regulations at all times. SG4:15 to be used for best practice guidance.

Foundations/supports
The contractor must prepare all foundations and ensure that they are capable of taking the imposed scaffold loads without undue deflection.Where equipment is supported or suspended from an existing structure the contractor must ensure that the existing structure is adequate to safely support the imposed scaffold loads.
Reaction to skip/forklift: 1.08kN

Tie Loads
Where scaffold has been designed to be tied to adjacent structure, tests may be required to ensure structure is suitable. TG4:19 to be used for best practice guidance

Shoring work
Oryx Scaffold Design Ltd cannot and will not pass comment on the building being shored.It is the contractors responsibility to ensure that the existing structure will safely span between our supports and can be safely shored in the way indicated.

Sheeting/fans
No additional wind protection, sheeting or fans etc, to be added to the scaffold structure unless otherwise stated on this drawing.

Temporary Roofs
No roof is guaranteed to be 100% watertight. Additional preventative measures must be looked into if required.

Modifications
No major alterations are to be made to the scaffold detailed in this drawing without written permission to Oryx Scaffold Designs.

Dimensions
All Dimensions are in Millimeters.Written dimensions will take precedence over scaled dimensions. Contractor should note all site dimensions and notify Oryx Scaffold Design Ltd of any discrepancies. The contractor is responsible for accurately setting the position of the scaffold structure.

CDM
This drawing constitutes the design risk assessment in accordance with regulation 8,9 & 11 of the current CDM regulations 2015. Good practice is to be used in the elimination of general risk in the use of temporary works.For guidance please see the relevant codes as provided in HSE publications.

L&C SCAFFOLDING LTD

ORYX SCAFFOLD DESIGN

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Bristol.
BS30 6ES.
Tel: 01173 290050
Email: chris@oryxdesignltd.co.uk

Client:
L&C Scaffolding Ltd.

Drawing Title:
Barratt Homes.

Job Description:
Skip Cover.

Scale:	Drawing Number:	Drawn: CH	Date:	Rev:
1:100 IS0 A3	24/ORYX/08/324	Checked:LS	22/08/24	A

ORYX
SCAFFOLD DESIGN

Date : 22/08/2024
Sheet : 1 of 3

Client	L&C Scaffolding Ltd
Site	Barratts Homes
Description	Skip Cover
Job ID	ORYX/22/08/324
Prepared	CH
Checked	LS
Drawing No	24/ORYX/08/324

DESIGN RISK ASSESSMENT
BS:EN 12811 performance Requirements and General Design & TG20:21

Table 2.1: Load Classes for Working Scaffolds	X
Table 5.1: Scaffold Component Weights	X
Table 5.9: Sectional Properties of Steel tube	X
Table 5.10: Safe axial loads for Steel tube	X
Table 5.15: Working Capacities of Couplers	X
Table C1: Sectional Properties of Aluminium tube	
Table C2: Safe axial loads for Aluminium tube	

Other Codes / British Standards

BS EN:12811-1 Temporary Works Design	X
BS EN:12811-2 Temporary Works Equipment	X
BS 1991-1-4; 2005 General actions. Wind actions	X
BS:6399: Part 3: 1988 Loading for Buildings	
Working at Height Regulations 2005	X
BS: 5975: 2019 (Temporary Works Procedures)	X
NASC Document TG20:21	X

Manufacturers Information

Type	M.R.	S.R	Self Weight
350 Steel Beams	11.7kNm	20.0kN	0.13kN/m
Generation R 450 Beam	20.2kNm	11.7kN	0.05kN/m
DESSA D78	38.8KNm	23.7kN	0.06kN/m
DESSA Asterix HD	102.2kNm	32.6kN	0.13kN/m

Scaffold Equipment

Type		Max Capacity	Self Weight
90° Coupler		9.1kN	1.4kg
Swivel Coupler		6.1kN	1.4kg
Scaffold Tube		1.12kNm	4.4kg/m
Scaffold Board		0.468kNm	0.25kN/m²

Loading Considerations

Loading type	X	Comments
Dead / Imposed		
Wind		
Snow		
Horizontal		
Other		

Stability Considerations

Item	X	Comments
Erection Bracing		
Final Bracing	X	As shown
Type of Tie		
Buttress		
Kentledge / Anchor		
Other		

Assembly Considerations

Beams	X	Comments
Built in-situ	X	In-situ Scaffold erection
Craned into position		
Additional Bracing		
Lifting Point		
Lifting Beam Required		
Other		

Hazards to the Public

Item	X	Comments
Side Sheeting		
Walkthrough		
Protection lift		
Protection fan		
Crash deck		
Other		

Site Considerations

Item	X	Comments
Types of foundations	X	Firm and Level ground
Obstructions	X	Checked by main contractor
Services (Gas, etc)	X	Checked by main contractor
Overhead wire	X	Checked by main contractor
other		

Other Design Considerations

Notes

ORYX
SCAFFOLD DESIGN

Date : 22/08/2024
Sheet : 2 of 3

Client	L&C Scaffolding Ltd
Site	Barratts Homes
Description	Skip Cover
Job ID	ORYX/22/08/324
Prepared	CH
Checked	LS
Drawing No	24/ORYX/08/324

Specification:
Skip cover.
Calculation to determine axial loads to the puncheons

Self weight of scaffold per upright

Item	Quantity	Length	Tube	Fittings
Standards	1.00	2.00	2.00	1.00
Ledgers	1.00	2.00	2.00	1.00
Ledgers	3.00	0.50	1.50	3.00
Transoms	5.00	1.00	5.00	5.00
Section Bracing	1.00	1.20	1.20	1.00
			11.7	11.00

SW Tube @ 4.4kg/m	0.51	kN
SW Fittings @ 1.4kg/fit	0.15	kN

Total weight of bay	0.66	kN
Total load per bay	0.66	kN

<29.1kN
Pc @ 2000mm
Table 5.10

ORYX SCAFFOLD DESIGN

Date : 22/08/2024
Sheet : 3 of 3

Client	L&C Scaffolding Ltd
Site	Barratts Homes
Description	Skip Cover
Job ID	ORYX/22/08/324
Prepared	CH
Checked	LS
Drawing No	24/ORYX/08/324

Specification:
Skip cover.
Calculations to check tube capacities and reactions

Tube Length	=	4.20 m
Cantilever Length	=	3.20 m
Moment of inertia	=	13.80 cm^4
Sectional modulus	=	5.01 cm^3
Youngs Modulus	=	200.00 Gpa

Loading applied

UDL's

0.04 kN/m — 1x Tube Self Weight

0.04 kN/m — Total UDL

Point Loads

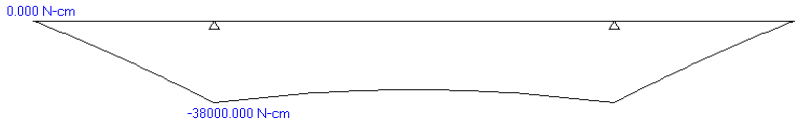
0.66	kN	@	0.00	m
0.66	kN	@	2.10	m

Reactions +ve ↑

1.08	kN	@	0.50	m
1.08	kN	@	1.60	m

Maximum Bending Moment

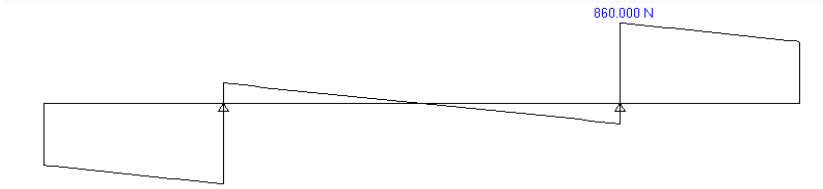
0.38 kNm @ 0.50 m



1No 48.3mm Steel Scaffold Tube <1.12kNm Tube OK

Maximum shear

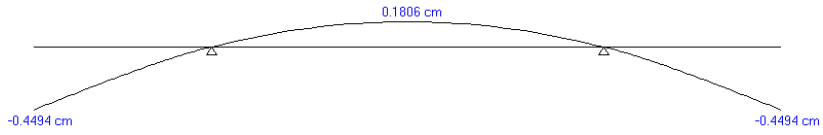
0.86 kN @ 1.60 m



1No 48.3mm Steel Scaffold Tube <29.1kN Tube OK

Deflections

0.45 cm



1No 48.3mm Steel Scaffold Tube 0.45cm each Tube OK

Reaction loads to supporting structure	=	1.08	kN	
Capacity of coupler connections	=	9.10	kN	OK