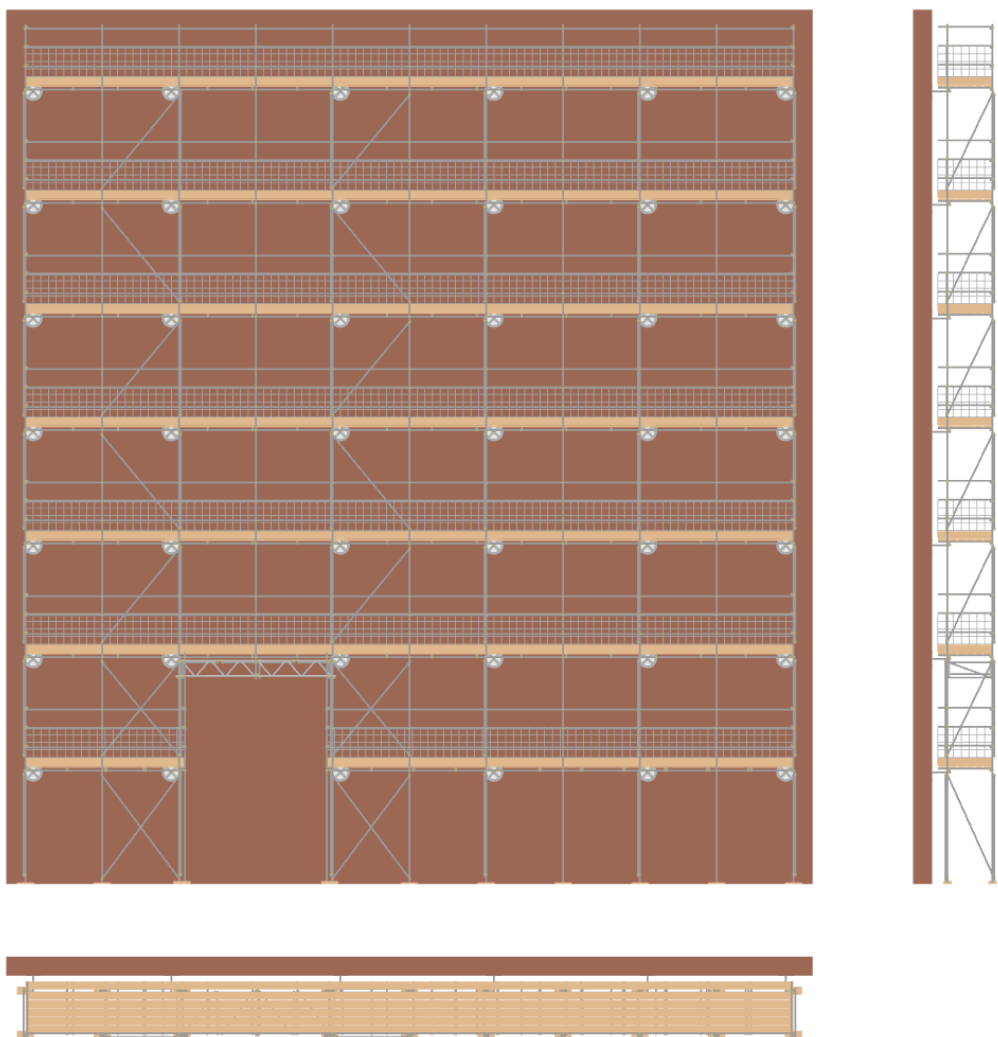


TG20:21 compliance sheet

A tied independent tube and fitting scaffold in accordance with TG20:21 chapters 06 and 07.



Sign-off

Contract no:
1938

Client:
MJM Contracts

Site reference:
Arthur House, Chorlton Street,
Manchester, Greater Manchester,
M1 3FH

Scaffold reference:

Company:
Lea Scaffolding & Access Ltd

NASC membership no:
600589

Prepared by:
Mark Crowther

Position:
Estimator

Signature:

Date:
20/11/2023

Wind factor
22

LOW

Maximum
height

21 metres

Maximum
boarded lifts

7

Maximum
lift height

3 metres

Maximum
bay length

2 metres

Maximum
boards wide

5 + 1

Maximum
loading

2.0 kN/m²

Tie load
Very light duty

1.0 kN

Maximum
leg load

12.8 kN



TECHNICAL



DESIGN



SERVICES

Construction

- ✓ Constructed from TG20 compliant high-tensile steel tubes.
- ✓ Maximum 7 boarded lifts permitted.
- ✓ Maximum transom spacing: 1.2 metres.
- ✓ Facade braced every 6 bays per elevation.
- ✓ Ledger braced at alternate standards and end frames.
- ✓ Triple guard rails and toe boards at boarded lifts.
- ✓ Internal edge protection may be provided where required.
- ✗ May not be clad with sheeting or debris netting.



Loading

- ✓ One lift loaded to 2.0 kN/m² (load class 3, general purpose) plus one lift 50% loaded per facade.
- ✓ Maximum inside board loading 0.75 kN/m² at the working lift.
- ✓ Maximum leg load 12.8 kN, to be supplied to the client for foundation design.
- ! This scaffold includes add-ons with additional leg loads stated on their TG20 compliance sheets.

Ties

- ✓ Tied at every lift to TG20 tie pattern A with 1.0 kN (very light duty) ties.
- ✓ Tie tubes may be connected to the inner face of the scaffold.
- ✗ The facade must not have significant openings.

Add-on features

- ✓ A gin wheel may be used to a maximum of 50 kg. The following add-ons are permitted with a TG20 compliance sheet:

☐ Pavement lift	☒ Two bay bridge	☐ Cantilever platform	☐ Loading bay
☐ Cantilever fan	☐ Three bay bridge	☐ Hop-up brackets	☐ Ladder-access tower

Sign-off

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Wind factor
22

LOW

Maximum
height

21 metres

Maximum
boarded lifts

7

Maximum
lift height

3 metres

Maximum
bay length

2 metres

Maximum
boards wide

5 + 1

Maximum
loading

2.0 kN/m²

Tie load
Very light duty

1.0 kN

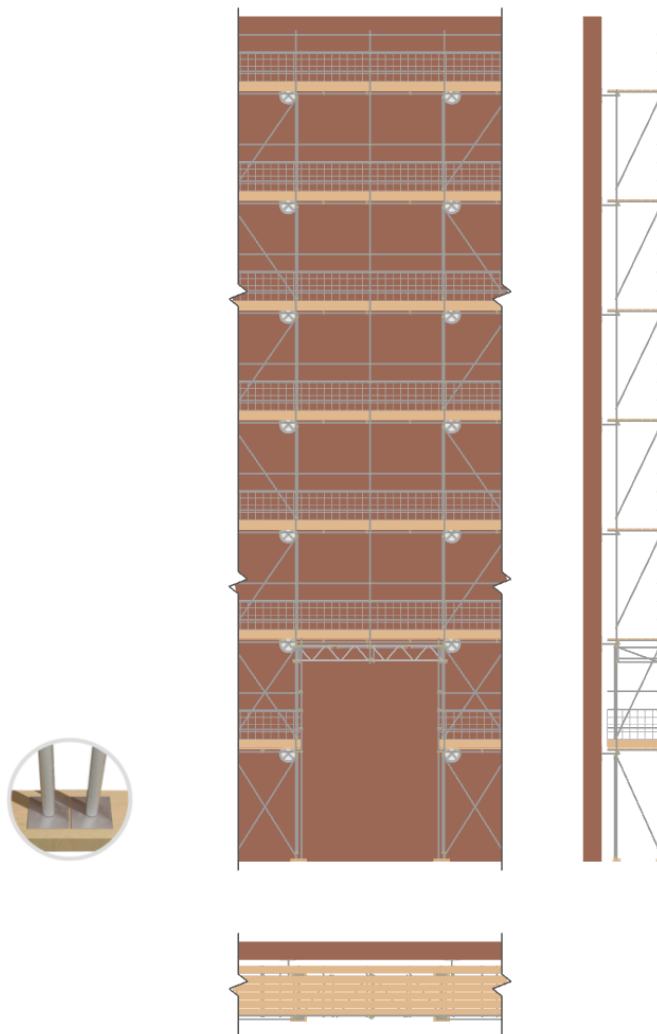
Maximum
leg load

12.8 kN



TG20:21 compliance sheet

A bridge supporting a two-bay opening in a TG20 compliant tied independent scaffold to TG20:21 chapter 09.



Sign-off

Contract no:

1938

Client:

MJM Contracts

Site reference:

Arthur House, Chorlton Street,
Manchester, Greater Manchester,
M1 3FH

Scaffold reference:

Company:

Lea Scaffolding & Access Ltd

NASC membership no:

600589

Prepared by:

Mark Crowther

Position:

Estimator

Signature:

Date:

20/11/2023

Wind factor
22

Low

Lifts above the
bridge

6

Maximum
lift height

3 metres

Maximum
bay length

2 metres

Maximum
boards wide

5 + 1

Maximum
loading

2.0 kN/m²

Tie load
Very light duty

1.0 kN

Combined leg
load

18.0 kN



Bridge specification

- ✓ Suitable for a TG20 compliant tied independent scaffold with brick guards of load class 3, maximum 2 m bay length, 5 + 1 boards wide and 21 m height to the top lift.
- ✓ Supports a maximum of 6 lifts above the bridge.
- ✓ Maximum span of 4 m, supporting two bays.
- ✓ The opening may extend vertically to form a partial opening in the scaffold or to extend to the foundation.
- ! The supporting standards must be doubled to the beam height.

Beam specification

Supported by a pair of 305 mm deep steel ladder beams or equivalent aluminium unit beams with these minimum properties:

Beam property	Minimum value
Safe working moment resistance with top chord restraints at 1.2 m spacing	12.5 kNm
Safe working shear resistance	8.3 kN

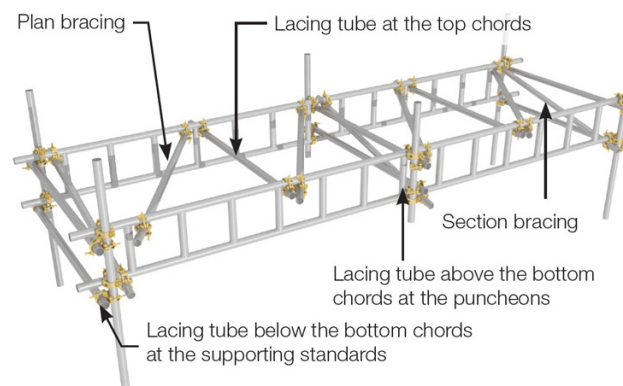
Beams fixed to the supporting and supported standards at the top and bottom chords with right-angle couplers.

Loading

- ✓ Combined leg load 18.0 kN, at the supporting standards, for the foundation design.

Ties

- ✓ The scaffold must be tied at the supporting standards with 1.0 kN (very light duty) ties.
- ✗ The facade must not have significant openings.



Beam fixing and bracing

- ✓ Lacing tubes between top chords at 1.2 m spacing and between bottom chords at 2.4 m spacing.
- ✓ Plan braced within the top third of the beams at 1.2 m spacing. Section bracing at 2.4 m spacing.
- ✓ At least one braced bay of scaffolding is required both sides of the opening and between openings.
- ✓ Facade braced both sides of the bridge at the inner and outer faces, within six bays of the opening, to the height of the bridge.
- ✓ Supporting standards ledger braced both sides of the opening to the height of the bridge.

Sign-off

Contract no:
1938

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Prepared by:
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Position:
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Signature:

Date:
20/11/2023

Wind factor
22

LOW

Lifts above the
bridge

6

Maximum
lift height

3 metres

Maximum
bay length

2 metres

Maximum
boards wide

5 + 1

Maximum
loading

2.0 kN/m²

Tie load
Very light duty

1.0 kN

Combined leg
load

18.0 kN

