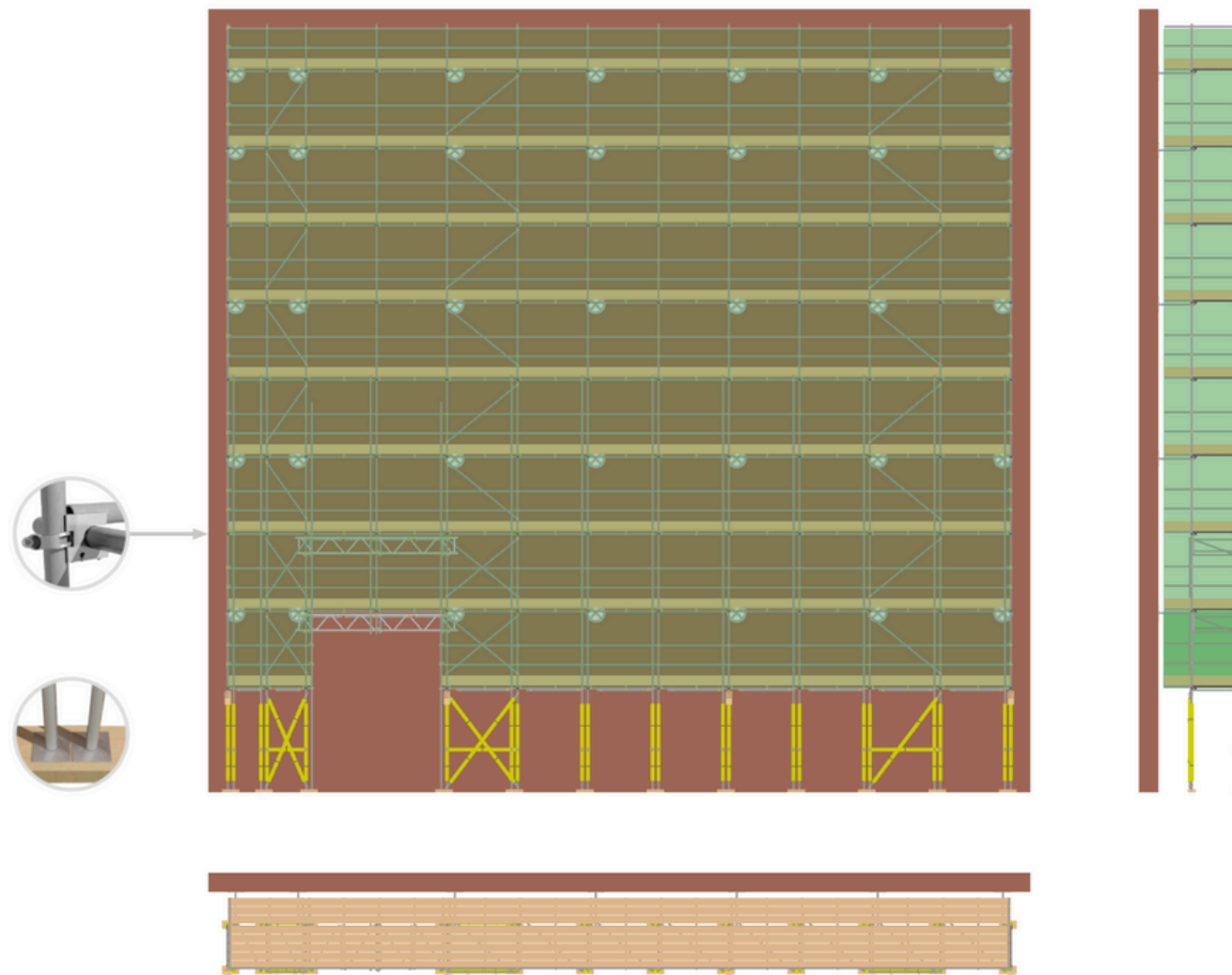


TG20:21 compliance sheet

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



Site reference:
Portland Street, Manchester,
Greater Manchester, M1

Scaffold reference:
FRONT ELEVATION

Date:
13/01/2024

Notes:

PERMIT REQUIRED

Wind factor
22

LOW

Maximum
height

18.7 metres

Maximum
boarded lifts

9

Maximum
lift height

2 metres

Maximum
bay length

1.8 metres

Maximum
boards wide

5 + 3

Maximum
loading

2.0 kN/m²

Tie load
Very light duty

2.5 kN

Combined leg
load

14.3 kN

TG20:21 compliance sheet

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

Construction

Constructed from TG20 compliant high-tensile steel tubes.
 Maximum 9 boarded lifts permitted.
 Maximum transom spacing: 1.2 metres.
 Facade braced every 6 bays per elevation. Ledger bracing may be omitted.
 Double guard rails and toe boards at boarded lifts. Single guard rails at unboarded lifts.
 Fully or partially clad with high-permeability debris netting.
 TG20 compliant structural transom units at every standard-to-ledger intersection.
 Double standards required to a height of 10 metres.



Site reference:
 Portland Street, Manchester,
 Greater Manchester, M1

Scaffold reference:
 FRONT ELEVATION

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.
 Combined leg load 14.3 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 alternate lifts to TG20 tie pattern A and at the top lift at alternate standards with 2.5 kN (very light duty) ties.
 Tie tubes may be connected to the inner face of the scaffold. Additional sway resistance should be provided (TG20 section 7.9).
 The facade must not have significant openings.

Date:
 13/01/2024

Add-on features

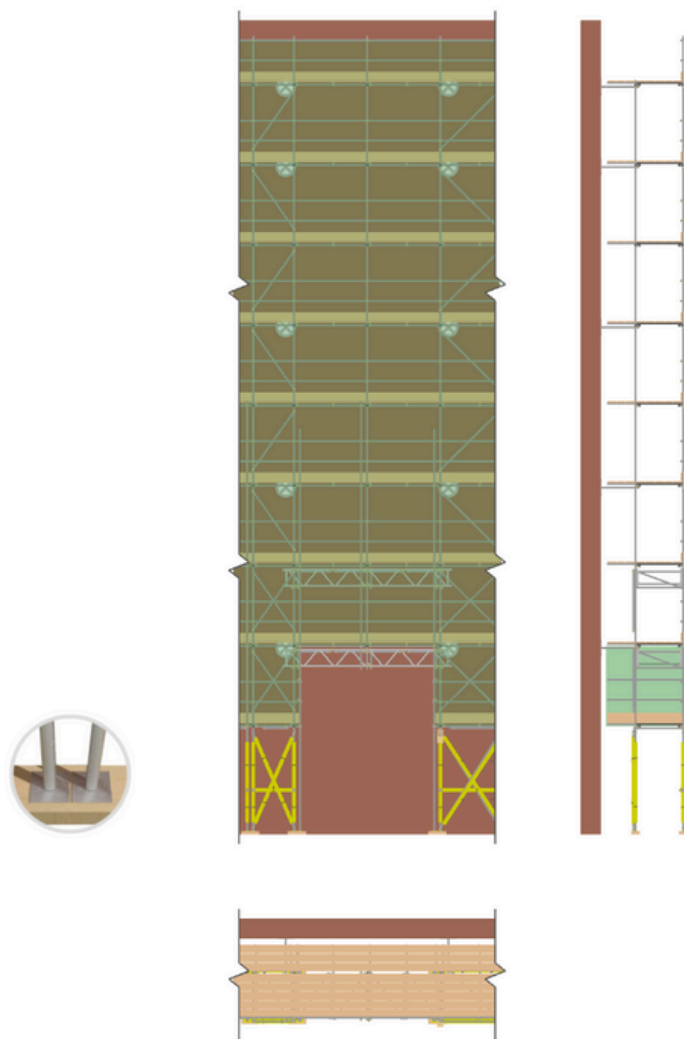
A gin wheel may be used to a maximum of 50 kg. The following add-ons are permitted with a TG20 compliance sheet:

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

Wind factor 22	Maximum height	Maximum boarded lifts	Maximum lift height	Maximum bay length	Maximum boards wide	Maximum loading	Tie load Very light duty	Combined leg load
LOW	18.7 metres	9	2 metres	1.8 metres	5 + 3	2.0 kN/m ²	2.5 kN	14.3 kN

TG20:21 compliance sheet

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



Site reference:
Portland Street, Manchester,
Greater Manchester, M1

Scaffold reference:
FRONT ELEVATION

Date:
13/01/2024

Wind factor
22

Low

Lifts above the
bridge

8

Maximum
lift height

2 metres

Maximum
bay length

1.8 metres

Maximum
boards wide

5 + 3

Maximum
loading

2.0 kN/m²

Tie load
Very light duty

2.5 kN

Combined leg
load

20.4 kN

TG20:21 compliance sheet

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

Bridge specification

Suitable for a debris netted TG20 compliant tied independent scaffold of load class 3, maximum 1.8 m bay length, 5 + 3 boards wide and 18.7 m height to the top lift.

Supports a maximum of 8 lifts above the bridge.

Maximum span of 3.6 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.

Supported by 2 sets of beam assemblies.

Loading

Combined leg load 20.4 kN, at the supporting standards, for the foundation design.

Special consideration may be required as the leg load exceeds 20 kN.

Ties

The scaffold must be tied at the supporting standards with 2.5 kN (very light duty) ties.

The facade must not have significant openings.

Site reference:

Portland Street, Manchester, Greater Manchester, M1

Scaffold reference:

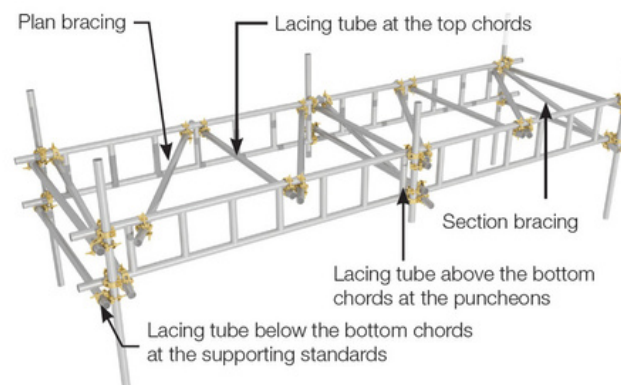
FRONT ELEVATION

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. Inner beam fixed with EN 74 class B couplers or supplementary couplers provided.



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.

Date:

13/01/2024

Notes:

PERMIT REQUIRED

Wind factor

22

Low

Lifts above the bridge

8

Maximum lift height

2 metres

Maximum bay length

1.8 metres

Maximum boards wide

5 + 3

Maximum loading

2.0 kN/m²

Tie load
Very light duty

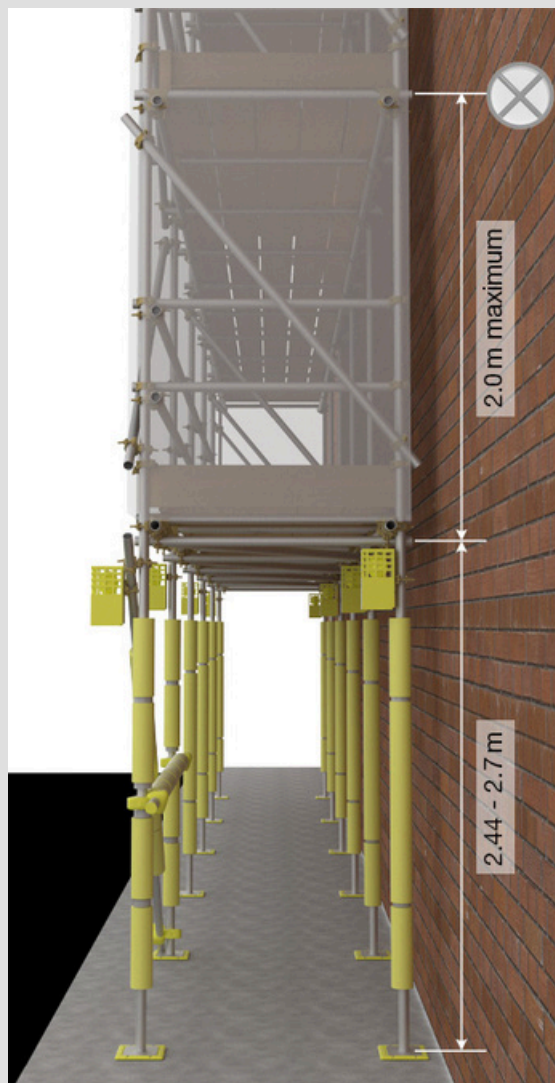
2.5 kN

Combined leg load

20.4 kN

TG20:21 compliance sheet

A pavement lift for a TG20 compliant tied independent scaffold, in accordance with TG20:21 chapter 10.



Pavement lift specification

Suitable for a TG20 compliant tied independent scaffold. Maximum 2.7 m pavement lift height. Minimum 2.44 m clear headroom. 5 boards wide plus up to 3 inside boards. Ledger bracing omitted below the first lift. First lift to be close-boarded or double-boarded with an intermediate waterproof membrane.

Stabilisation

Stabilised with plan bracing at every bay of the pavement lift. The remainder of the scaffold will be tied as described in the associated TG20 compliance sheet. The cross symbols in the diagram indicate a line of ties at ledger-braced standards as described in TG20:21 chapter 07.

Pedestrian protection

The pavement lift must be erected and maintained in accordance with the requirements of the local Highway Authority under an appropriate street or pavement closure licence. Further information is provided in NASC SG34: guidance on protection of the public. Standards adjacent to public access protected to a height of 2 metres. The client is to ensure the scaffold is lit during darkness, subject to the risk assessment, with lights at each end of the scaffold and at 4 metre intervals. Guard rails to be used to prevent public access to unauthorised areas. Tapping boards to be provided if appropriate or if required by local regulations.

Site reference:
Portland Street, Manchester,
Greater Manchester, M1

Scaffold reference:
FRONT ELEVATION

Date:
13/01/2024

Windfactor
22

LOW

Pavement lift
height

2.7 metres

Maximum scaffold
lift height

2 metres

Maximum scaffold
bay length

1.8 metres

Maximum
boards wide

5 + 3

Maximum
loading

2.0 kN/m²

Tie load
Verylight duty

2.5 kN