

### Sign-off

Contract no:  
Demo Beam Work

Client:  
KMS Scaffolding

Site reference:  
Bury St Edmunds, Bury Saint Edmunds, Suffolk

Scaffold reference:

Company:  
KMS Scaffolding Ltd  
NASC membership no:  
Not an NASC member

Prepared by:

Position:

Signature:

Date:  
27/02/2023

Wind factor  
21

LOW

Maximum  
height

6 metres

Maximum  
boarded lifts

3

Maximum  
lift height

2 metres

Maximum  
bay length

2 metres

Maximum  
boards wide

5 + 2

Maximum  
loading

2.0 kN/m<sup>2</sup>

Tie load  
Class B duty

6.9 kN

Maximum  
leg load

8.4 kN

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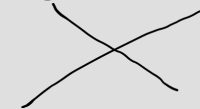
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### Construction

- ✓ Constructed from TG20 compliant high-tensile steel tubes.
- ✓ Maximum 3 boarded lifts permitted.
- ✓ Maximum transom spacing: 1.2 metres.
- ✓ Facade braced every 6 bays per elevation.
- ✓ Ledger braced at alternate standards and end frames.
- ✓ Double guard rails and toe boards at boarded lifts. Single guard rails at unboarded 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/m<sup>2</sup> (load class 3, general purpose) plus one lift 50% loaded per facade.
- ✓ Maximum inside board loading 0.75 kN/m<sup>2</sup> at the working lift.
- ✓ Maximum leg load 8.4 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 B and at the top lift at ledger braced standards with 6.9 kN (class B 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 may 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:

<input type="checkbox"/>	Pavement lift	<input type="checkbox"/>	Two bay bridge	<input type="checkbox"/>	Cantilever platform	<input type="checkbox"/>	Loading bay
<input type="checkbox"/>	Cantilever fan	<input checked="" type="checkbox"/>	Three bay bridge	<input type="checkbox"/>	Hop-up brackets	<input type="checkbox"/>	Ladder-access tower

Wind factor  
21

LOW

Maximum height

6 metres

Maximum boarded lifts

3

Maximum lift height

2 metres

Maximum bay length

2 metres

Maximum boards wide

5 + 2

Maximum loading

2.0 kN/m<sup>2</sup>

Tie load  
Class B duty

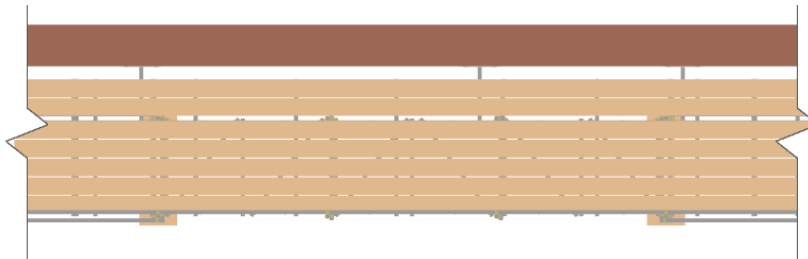
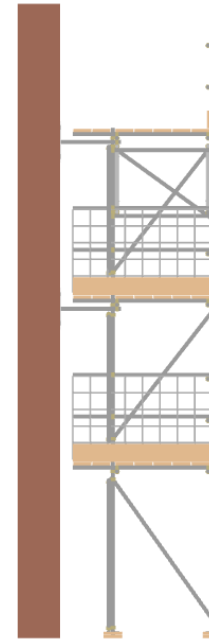
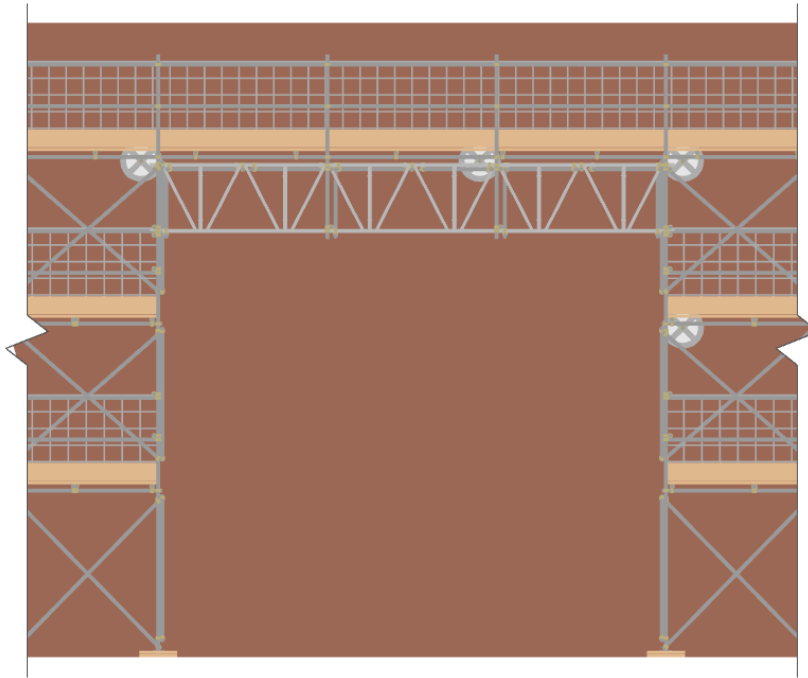
6.9 kN

Maximum leg load

8.4 kN

## TG20:21 compliance sheet

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



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27/02/2023

Wind factor  
21

LOW

Lifts above the  
bridge

1

Maximum  
lift height

2 metres

Maximum  
bay length

2 metres

Maximum  
boards wide

5 + 2

Maximum  
loading

2.0 kN/m<sup>2</sup>

Tie load  
Class B duty

6.9 kN

Maximum  
leg load

11.0 kN

**KMS SCAFFOLDING**<sub>LTD</sub>

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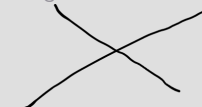
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### Bridge specification

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

### Loading

- ✓ Maximum leg load 11.0 kN, at the supporting standards, for the foundation design.

### Ties

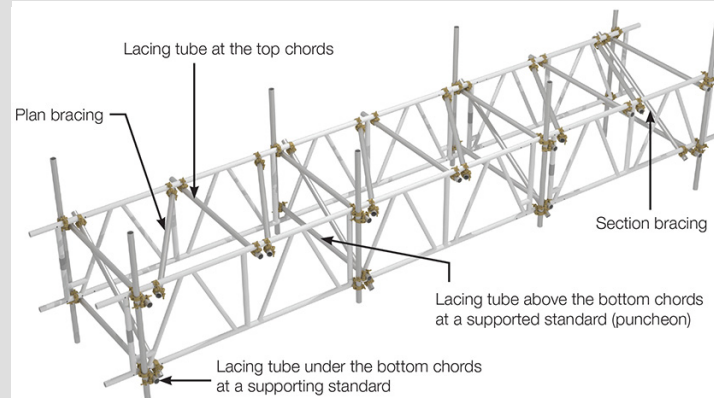
- ✓ The scaffold must be tied at the supporting standards with 6.9 kN (class B duty) ties.
- ✓ The facade may have significant openings.

### Beam specification

Supported by a pair of 610 mm deep steel unit beams or equivalent aluminium beams with these minimum properties:

Beam property	Minimum value
Safe working moment resistance with top chord restraints at 1.2 m spacing	27.0 kNm
Safe working shear resistance	15.6 kN

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



### 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.

Wind factor  
21

LOW

Lifts above the  
bridge

1

Maximum  
lift height

2 metres

Maximum  
bay length

2 metres

Maximum  
boards wide

5 + 2

Maximum  
loading

2.0 kN/m<sup>2</sup>

Tie load  
Class B duty

6.9 kN

Maximum  
leg load

11.0 kN