



Independent scaffolding

A tied independent scaffold with 2.0 m maximum lift heights, clad with permeable debris-netting, assembled from tubes and fittings.



Design height

- ✓ Maximum height: 30.0 m to the top lift.

Maximum loading

- ✓ One lift loaded, plus one lift 50% loaded, per façade to a maximum of: 2.0 kN/m²;
- ✓ Foundation design leg load (for the client): 19.19 kN;
- ! This scaffold includes add-ons with additional leg loads stated on their TG20 compliance sheets.

Ties

- ✓ 1 x 2.08 kN (very light duty) tie per 12.0 m²;
- ✓ Max. 4.0 m between tie lines (tied at alternate lifts);
- ✓ Max. 3.0 m horizontal distance between vertical tie lines;
- ✓ Tied at the top lift at ledger-braced standards.

Add-on features

- ✓ A gin wheel may be used to lift a maximum of 50 kg;
- ✓ Hop-up brackets may be used, with one hop-up platform offset no more than 0.5 m above or below the lift.

The following features are permitted in accordance with a TG20 compliance sheet: pavement lift; two-bay bridge; three-bay bridge; cantilevered fan; loading bay; ladder tower.

Design advice may be required if any add-on features not stated on this compliance sheet are attached to the scaffold.

Location

Suitable for sites with a wind factor of 20.0 (low wind exposure), during any season.

Criteria

To be erected as a TG20 compliant tied independent scaffold as described in TG20:13 chapter 06:

- ✓ 3 – 5 boards wide;
- ✓ Maximum lift height: 2.0 m;
- ✓ Maximum bay length: 1.5 m;
- ✓ Maximum transom spacing: 1.2 m;
- ✓ The scaffold will be fully or partially clad with high permeability debris-netting;
- ✓ Boarded at any number of lifts;
- ✓ Tied to an impermeable façade (no significant openings);
- ✓ Façade braced in every elevation, one set per six bays;
- ✓ Ledger braced at alternate standards and at end frames;
- ✓ Double guard rails and toe boards at boarded lifts (triple permitted at top);
- ✓ Single guard rails at unboarded lifts;
- ✓ Internal edge protection provided where required;
- ✓ Tied with tie tubes connected to the inner and outer faces of the scaffold in accordance with TG20:13 chapter 07;
- ✓ Structural transoms at ledger-braced frames at every lift, except where a tie to the outer face is provided.

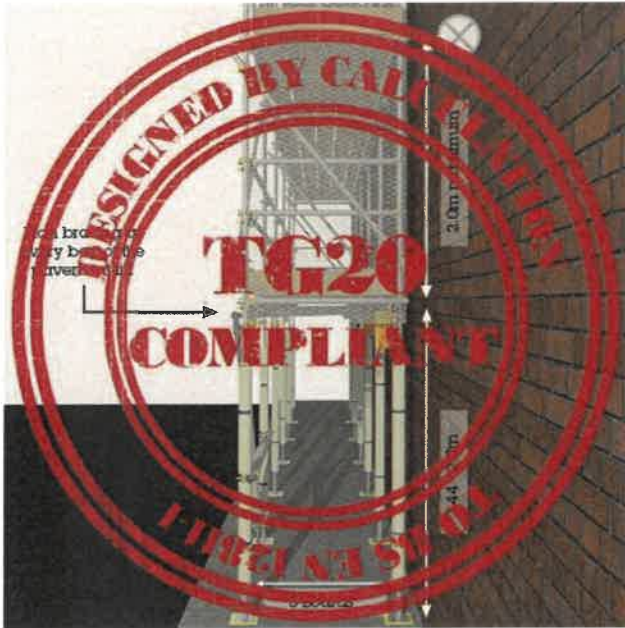
Sign-off

Contract no:	001	Client:	Jon Jo Collins
Company:	Reunited	Scaffold reference:	
NASC membership no (!):	n/a	Site reference:	Hitchin, UK
Name:	bob fidock	Signature:	
Position:	operations manager	Date:	29/01/2021
Notes:			

(!) Use of this NASC document does not infer NASC membership. Go to www.nasc.org.uk to confirm membership. Illustrations are indicative.

Pavement lift

A pavement lift for TG20 compliant tied independent or tied tower scaffolding as described in TG20:13 chapter 10.



Applicable scaffolding

- ✓ Suitable for TG20 compliant tied independent or tied tower scaffolding.

Criteria

- ✓ Maximum 2.7 m pavement lift height;
- ✓ Minimum 2.44 m clear headroom;
- ✓ Five boards wide plus up to two inside boards;
- ✓ Ledger bracing omitted below the first lift;
- ✓ First lift to be close-boarded or double-boarded with an intermediate waterproof membrane;
- ✓ Stabilised with plan bracing at every bay of the pavement lift. The scaffold will be tied as described in TG20:13 chapter 07.

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 SG34: Guidance on protection of the public.

The cross symbols in the diagram above indicate a line of ties at alternate (preferably ledger-braced) standards as described in TG20:13 chapter 07.

Sign-off

Contract no:	001	Client:	Jon Jo Collins
Company:	Reunited	Scaffold reference:	
NASC membership no (1):	n/a	Site reference:	Hitchin, UK
Name:	bob fidock	Signature:	
Position:	operations manager	Date:	29/01/2021
Notes:			

(1) Use of this NASC document does not infer NASC membership. Go to www.nasc.org.uk to confirm membership. Illustrations are indicative.



Two-bay bridge

A bridge supporting a two-bay opening in a TG20 compliant tied independent scaffold as described in TG20:13 chapter 09.



Design height

- ✓ Suitable for use within a load class 3 TG20 compliant tied independent scaffold of 30.0 m maximum height, 3 – 5 boards wide;
- ✓ Supporting a maximum of 8 lifts above the bridge;
- ✓ Combined foundation leg load (for the client): 22.44 kN;
- ! Special consideration may be required as the foundation design load exceeds 20 kN.

Bridge specification

- ✓ Maximum span of 3.0 m, supporting two bays;
- ✓ At least one braced bay of scaffolding is required both sides of the opening and between openings;
- ✓ The opening may extend vertically to form a partial opening in the scaffold or to extend to the foundation;
- ✓ The scaffold is to be tied at the supporting standards;
- ✓ The standards adjacent to the opening must be doubled.

Beam specification

Supported by a pair of 305 mm (minimum) deep steel ladder beams or equivalent steel or aluminium lattice or unit beams with the following minimum structural properties:

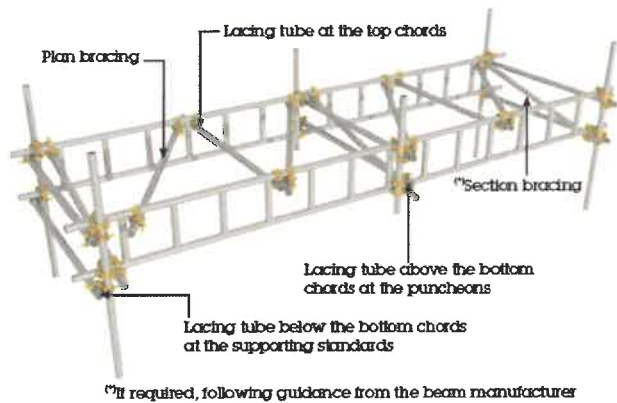
Beam property	Minimum value
Safe working moment resistance with top chord restraints at 1.2 m spacing	12.5 kNm
Safe working shear resistance	8.3 kN

Beam fixing and bracing

Beams at the inner and outer faces, fixed to each standard at the top and bottom chords with right-angle couplers.

Beams braced with tubes and right-angle or swivel couplers to form a 'box girder':

- ✓ Lacing tubes between top chords at 1.2 m spacing and between bottom chords at 2.4 m spacing;
- ✓ Plan braced in the top third of the beams at 1.2 m spacing;
- ✓ Section bracing at 2.4 m spacing (*).



Scaffold bracing

- ✓ Façade 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

Bridges conforming to this specification will be erected within TG20 compliant tied independent scaffolding.

Contract no:	001	Client:	Jon Jo Collins
Company:	Reunited	Scaffold reference:	
NASC membership no (!):	n/a	Site reference:	Hitchin, UK
Name:	bob fidock	Signature:	
Position:	operations manager	Date:	29/01/2021
Notes:			

(!) Use of this NASC document does not infer NASC membership. Go to www.nasc.org.uk to confirm membership. Illustrations are indicative.

Three-bay bridge

A bridge supporting a three-bay opening in a TG20 compliant tied independent scaffold as described in TG20:13 chapter 09.



Design height

- ✓ Suitable for use within a load class 3 TG20 compliant tied independent scaffold of 30.0 m maximum height, 3 – 5 boards wide;
- ✓ Supporting a maximum of 5 lifts above the bridge;
- ✓ Combined foundation leg load (for the client): 24.79 kN;
- ! Special consideration may be required as the foundation design load exceeds 20 kN.

Bridge specification

- ✓ Maximum span of 4.5 m, supporting three bays;
- ✓ At least one braced bay of scaffolding is required both sides of the opening and between openings;
- ✓ The opening may extend vertically to form a partial opening in the scaffold or to extend to the foundation;
- ✓ The scaffold is to be tied at the supporting standards;
- ✓ The standards adjacent to the opening must be doubled.

Beam specification

Supported by a pair of 610 mm (minimum) deep steel lattice or unit beams or equivalent aluminium beams with the following minimum structural properties:

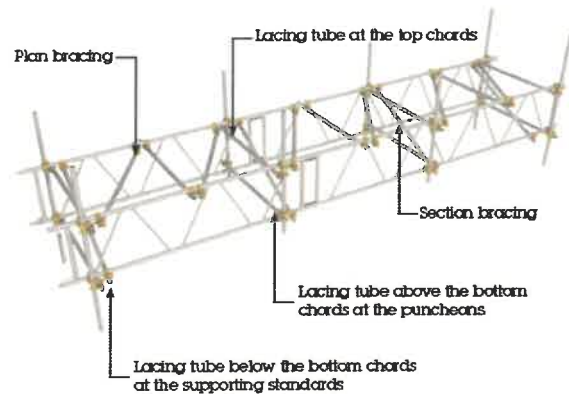
Beam property	Minimum value
Safe working moment resistance with top chord restraints at 1.2 m spacing	27.0 kNm
Safe working shear resistance	15.6 kN

Beam fixing and bracing

Beams at the inner and outer faces, fixed to each standard at the top and bottom chords with right-angle couplers.

Beams braced with tubes and right-angle or swivel couplers to form a 'box girder':

- ✓ Lacing tubes between top chords at 1.2 m spacing and between bottom chords at 2.4 m spacing;
- ✓ Plan braced in the top third of the beams at 1.2 m spacing;
- ✓ Section bracing at 2.4 m spacing.



Scaffold bracing

- ✓ Façade 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

Bridges conforming to this specification will be erected within TG20 compliant tied independent scaffolding.

Contract no:	001	Client:	Jon Jo Collins
Company:	Reunited	Scaffold reference:	
NASC membership no (!):	n/a	Site reference:	Hitchin, UK
Name:	bob fidock	Signature:	
Position:	operations manager	Date:	29/01/2021
Notes:			

(!) Use of this NASC document does not infer NASC membership. Go to www.nasc.org.uk to confirm membership. Illustrations are indicative.

Cantilever protection fan

A cantilever protection fan supported by a TG20 compliant tied independent or tied tower scaffold as described in TG20:13 chapter 10.



Design height

- ✓ Suitable for use with a TG20 compliant tied independent or tied tower scaffold with maximum 1.5 m bays and a maximum height of 30.0 m to the top lift in a site with a wind factor of 20.0 (low wind exposure).

Fan specification

- ✓ Maximum one fan per scaffolding elevation;
- ✓ Minimum clearance of 2.44 m for pedestrians and 5.05 m for vehicles, subject to local Highway Authority requirements;
- ✓ Maximum fan width: 6 boards.

Ties

- ✓ The lift supporting the fan must be tied at alternate (ledger-braced) standards with 2.08 kN (very light duty) ties.

Fan usage

- ! Intended to catch small objects such as fittings from a maximum vertical distance of 6.0 m;
- ! Protection fans cannot be guaranteed to catch and retain falling objects and must be used as part of a safe system of work based on a risk assessment;
- ! The effectiveness of a fan less than six boards wide will be reduced accordingly.

Fan loading

- ✓ Supports a maximum load of 0.75 kN/m²;
- ✗ Must not be used for the storage of materials. Aggregate or snow must be cleared promptly.

Fan construction

- ✓ Supported by propped cantilever principal transoms matching the bay spacing of the main scaffold;
- ✓ Connected below the inner ledger and above the outer ledger of the main scaffold with right-angle couplers;
- ✓ Preferably supported by raking props connected to the lift below, or by raking hangers to the lift above, at the bay spacing of the main scaffold;
- ✓ Decked with 38 mm thick timber scaffold boards, close boarded and restrained from lifting off;
- ✓ Decking supported by intermediate transoms with a maximum spacing of 1.2 m;
- ✓ Toe boards and guard rails must remain in place at the lift supporting the fan.

Sign-off

No more than one such fan will be fitted per elevation of TG20 compliant tied independent scaffolding.

Contract no:	001	Client:	Jon Jo Collins
Company:	Reunited	Scaffold reference:	
NASC membership no (!):	n/a	Site reference:	Hitchin, UK
Name:	bob fidock	Signature:	
Position:	operations manager	Date:	29/01/2021
Notes:			

(!) Use of this NASC document does not infer NASC membership. Go to www.nasc.org.uk to confirm membership. Illustrations are indicative.

Ladder-access tower

A scaffolding tower for the provision of external ladder access to a tied independent scaffold.



Design height

- ✓ Maximum height: 30.0 m to the top lift.

Maximum loading

- ✓ Designed to support up to six lifts simultaneously loaded with personnel to a maximum load of 1.0 kN/m²;
- ✓ Foundation design leg load (for the client): 22.74 kN;
- ! Special consideration may be required as the foundation design load exceeds 20 kN;
- ! Must not be used for the storage of materials.

Ties

- ✓ Tied at the end standards with 2.91 kN (light duty) ties;
- ✓ Maximum 4.0 m between tie lines (tied at alternate lifts);
- ✓ The top lift should be tied.

Location

Suitable for sites with a wind factor of 20.0 (low wind exposure).

Criteria

To be erected as a TG20 ladder-access tower for a TG20 tied independent scaffold as described in TG20:13 chapter 08:

- ✓ Maximum lift height: 2.0 m;
- ✓ Maximum length: 2 x 1.5 m bays;
- ✓ Maximum transom spacing: 1.2 m;
- ✓ 3 - 5 boards wide;
- ✓ Facade braced at the outer face of the tower;
- ✓ Ledger braced at the end faces of the tower;
- ✓ May be clad with high-permeability debris-netting;
- ✓ Double guard rails and toe boards at boarded lifts (triple permitted at top);
- ✓ Single guard rails at unboarded lifts;
- ✓ Tie tubes connected to the inner, middle and outer standards or ledgers with right-angle couplers;
- ✓ Wing braced back to the main scaffold at alternate (tied) lifts and the top lift. Plan bracing may be provided instead of wing bracing if preferred;
- ✓ End transoms connected with right-angle couplers at the top wing-braced lift if it is not tied.

Add-on features

Design advice may be required if any add-on features not stated on this compliance sheet are attached to the tower.

Sign-off

These access towers will be used with TG20 compliant independent scaffolding.

Contract no:	001	Client:	Jon Jo Collins
Company:	Reunited	Scaffold reference:	
NASC membership no (!):	n/a	Site reference:	Hitchin, UK
Name:	bob fidock	Signature:	
Position:	operations manager	Date:	29/01/2021
Notes:			

(!) Use of this NASC document does not infer NASC membership. Go to www.nasc.org.uk to confirm membership. Illustrations are indicative.



Loading bay

A reinforced scaffolding tower for the storage of pallets of materials, which may be carefully loaded by mechanical means.



Design height

- ✓ Maximum height: 30.0 m to the top lift.

Maximum loading

- ✓ Loaded on one lift to a maximum of 10.0 kN/m²;
- ✓ Foundation design leg load (for the client): 21.7 kN;
- ! Special consideration may be required as the foundation design load exceeds 20 kN.

Ties

- ✓ Tied at the end standards with 2.38 kN (very light duty) ties;
- ✓ Maximum 4.0 m between tie lines (tied at alternate lifts);
- ✓ The top lift should be tied.

Permitted dimensions

- ✓ Maximum length: 2 x 1.5 m bays;
- ✓ Maximum lift height 2.0 m;
- ✓ Maximum width: 5 boards;
- ✓ Maximum transom spacing: 0.45 m.

Add-on features

Design advice may be required if any add-on features not stated on this compliance sheet are attached to the tower.

Location

Suitable for sites with a wind factor of 20.0 (low wind exposure).

Criteria

To be erected as a TG20 compliant loading bay as described in TG20:13 chapter 12:

- ✓ Façade braced at the inner and outer faces of the tower;
- ✓ Ledger braced at each pair of standards;
- ✓ Principal transoms connected with right-angle couplers to the outer, middle and inner ledgers at each node point;
- ✓ Wing braced at alternate (tied) lifts and the top lift;
- ✓ The loaded lift to be supported by a pair of 305 mm deep steel ladder beams, or equivalent steel or aluminium lattice or unit beams, as defined in TG20:13 chapter 04;
- ✓ Beams fixed to each standard at the top and bottom chords with right-angle couplers;
- ✓ May be loaded by mechanical means;
- ✓ A supplementary coupler is required under both of the bottom beam chords at the middle standard unless EN 74 class B couplers are used;
- ✓ Beams may be used instead of the ledgers at the top lift or fixed below them. If fixed below them, the ledger and beam should be fixed with swivel couplers every 1.0 m;
- ✓ Beams may be left in place or moved progressively;
- ✓ Single guard rails required at unboarded lifts;
- ✓ Access via a gate or removable double guard rails. Double end guard rails, toe boards and brick guards required;
- ✗ May not be clad with sheeting or debris-netting.

Sign-off

These loading bays will be used with TG20 compliant independent scaffolding.

Contract no:	001	Client:	Jon Jo Collins
Company:	Reunited	Scaffold reference:	
NASC membership no (!):	n/a	Site reference:	Hitchin, UK
Name:	bob fidock	Signature:	
Position:	operations manager	Date:	29/01/2021
Notes:			

(!) Use of this NASC document does not infer NASC membership. Go to www.nasc.org.uk to confirm membership. Illustrations are indicative.