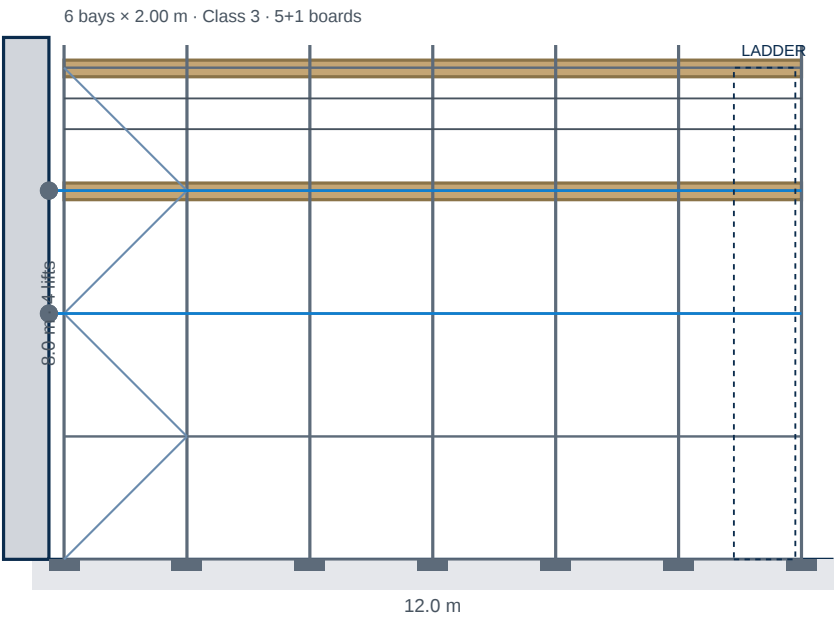




ELEVATION



SIGN-OFF

Contract no.
SF-2026-0142

Client
Example Main Contractor Ltd

Site reference
Unit 4, Industrial Estate, ...

Scaffold reference
SCAFF-N-01

Company
Temporary Works Consulting ...

NASC membership
—

Prepared by
D. Miller

Position
Temporary Works Designer

Date
2026-08-07

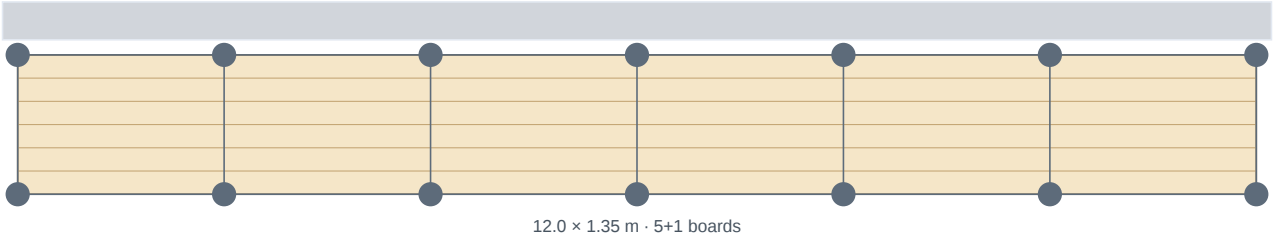
Signature _____

WITHIN TG20:21 ENVELOPE

PRINCIPAL COMPLIANCE CRITERIA

Wind factor Low Exposure 1.00	Max height 8.0 m Envelope ≤ 16.0 m	Boarded lifts 1+1 Full + half loaded
Lift height 2.00 m TG20 max 2.0 m	Bay length 2.00 m Class max 2.1 m	Boards wide 5+1 1.35 m
Loading 2.0 kN/m² Class 3	Tie load 2.9 kN Limit 6.9 kN	Leg load 5.6 kN Limit 11.7 kN

PLAN FAÇADE





CONSTRUCTION

- ✓ Constructed from type 4 galvanised steel tube (48.3 × 4 mm) and compatible fittings.
- ✓ Maximum 2 simultaneously loaded lifts as specified; remaining lifts unboarded or unloaded.
- ✓ Maximum lift height 2.00 m (TG20 limit 2.0 m).
- ✓ Maximum bay length 2.00 m for load class 3.
- ✓ Facade braced every 6 bay(s) per elevation.
- ✓ Ledger bracing fitted as specified on both ends / required lines.
- ✓ Double guardrail and toeboard on all working platforms.
- ✓ Internal edge protection where gap to facade exceeds 225 mm (inside boards as specified).
- ! Sheeting or debris netting is NOT included in this envelope — cladding requires reassessment.
- ✓ Base plates under every standard.
- ✓ Ladder access bay with hatch/trap protection included.

LOADING

- ✓ Design imposed load 2.0 kN/m² (BS EN 12811-1 load class 3).
- ✓ 1 lift(s) fully loaded plus 1 lift(s) at 50% per facade.
- ✓ Inside boards limited to light duty 0.75 kN/m² (personnel and tools only) unless designed otherwise.
- ✓ Estimated peak leg load 5.6 kN (limit 11.7 kN) — supply to client for foundation design.
- ✓ Platform area approx. 16.2 m².

TIES / STABILITY

- ✓ Independent scaffold tied to facade — estimated 4 Class B ties.
- ✓ Estimated tie load 2.9 kN (limit 6.9 kN for low wind).
- ✓ Tie tubes connected to inner and outer faces of the scaffold where practicable.
- ✓ Ties at alternate lifts / pattern consistent with TG20 Pattern A principles (confirm on site).
- ! Facade must not have significant openings that prevent effective tying — otherwise design required.
- ! Anchor capacity and substrate suitability are the responsibility of the competent person on site.

AUTOMATED ENVELOPE CHECKS

PASS	Bay length vs load class	Actual 2.00 m · limit ≤ 2.1 m (Class 3)
PASS	Lift height ≤ 2.0 m	Actual 2.00 m · TG20 max 2.0 m board-to-board
PASS	Height within envelope	Actual 8.0 m · envelope ≤ 16.0 m (low wind)
PASS	Simultaneously loaded lifts	2 loaded lifts (full 1 + half 1) · max 5
PASS	Facade bracing interval	Every 6 bay(s) · TG20 ≤ 6
PASS	Ledger bracing	Present
PASS	Peak leg load	5.6 kN · limit 11.7 kN
PASS	Tie / anchor load	2.9 kN · limit 6.9 kN · 4 ties

DISCLAIMER: This document is ScaffoldForge original documentation from Temporary Works Consulting & Design Ltd, aligned to NASC TG20:21 design envelopes for tube and fitting scaffolding. It is not an official NASC TG20 eGuide compliance sheet. Use only by a competent person under the Work at Height Regulations 2005 and BS 5975. Configurations outside the stated envelope require bespoke structural design. Foundation design, tie anchors, and site wind exposure remain site-specific responsibilities. Verify against current NASC guidance.