



Scaffold to be tied into the existing structure on a 4.000m by 4.000m grid to the value indicated in 'LOADINGS'. Method to be suitable for building strata and pulls tested in accordance with NASC TG4:11 if mechanical fixings used. If tied through window principal contractor to approve

48.3 x 4.0mm CHS (BS 1139) scaffold tie tube secured all standards using EN74 Class A double or swivel couplers. The tie tube should be within 150mm of the node.

48.3mm x 4.0mm CHS (BS 1139) scaffold tube facade bracing secured over one lift by one bay between standards and secure using Class A or Class B EN 74 swivel couplers. All bracing connections must be within 300mm of the node.

**RISK [4] - OVERLOADING OF SCAFFOLD STRUCTURE**  
**Control Measure:** The design service loads indicated should be closely site managed to ensure that only one number of working levels are present at one time. The load conditions of the scaffold should be clearly identified on the scaffag.

All 48.3mm x 4.0mm CHS BS 1139 scaffold tube uprights to be installed at positions indicated not exceeding the maximum bay sizes shown ( $\pm 50$ mm tolerance). All uprights to be within 1% of plumb (10mm out of plumb every 1000mm vertical tolerance).

48.3mm x 4.0mm CHS (BS 1139) scaffold tube guardrails secured at every lift for full perimeter using Class A or Class B EN 74 double couplers. Joints in handrail to be made using EN 74 sleeve couplers only.

**RISK [5] - MAXIMUM HEIGHT**  
**Control Measure:** The maximum height should not exceed five levels with 1.800m lifts and six levels with 1.500m lifts

**RISK [2] - EXCESSIVE LIFT HEIGHTS CAUSING BUCKLING**  
**Control Measure:** Maximum lift heights to be installed as detailed by the scaffold contractor and have a maximum tolerance of  $\pm 300$ mm

**RISK [3] - EXCESSIVE BAY SIZES INSTALLED DURING ERECTION**  
**Control Measure:** The scaffold contractor must ensure that the maximum bay size installed are as indicated and should not be exceeded. It is the responsibility of the scaffold contractor to remedy any defects.

225mm x 38mm BS EN 2482 visually graded scaffold boards **IN PAIRS** as decking members with no greater gap than 25mm between boards. (Except between main boards and inside boards where gap should not exceed 50mm). Where there is a risk of falling materials causing injury all gaps should be covered with plywood or similar.

162 x 152 x 4.76mm (EN 74) baseplate with scaffold upright centered about the plate  
The actual bearing pressure equals  $215kN/m^2$  (unfactored). The principal contractor should either check the ground for adequacy or provide Creator Ltd with an allowable bearing pressure.

**LEGEND**

- Structural Steel
- Prefabricated Lattice Beams
- Timber Products / Scaffold Boards
- Building Line
- Facade Brace (Plan, Section)
- Kentledge Hatch
- Ledger Brace (Plan, Elevation)
- Plan Brace (Plan, Section, Elevation)
- Scaffold Centre Line (Plan)
- 48.3mm Diameter Scaffold Tube
- Cladding Material (Sheeting / Netting)
- Splice Detail
- Supplementary Coupler / Check Fitting
- Tie Location (Plan, Section, Elevation)
- Puncheon
- Upright Cut Off
- Residual Risk
- Ledger Brace (Elevation, Section)
- Facade Brace (Elevation, Section)

**CONTRACTOR NOTES**

**DESIGN APPROACH:**  
This 'design' has been carried out using the limit state approach in accordance with BS EN 12811-1, NASC TG20 (Current) and the Eurocode Suite.

**PROPRIETARY EQUIPMENT:**  
All proprietary equipment should be installed and used in accordance with the manufacturers instructions.

**DESIGN SPECIFICATION AND INTERPRETATION:**  
The design has been produced using information provided to us by yourself and/or by others involved in the project. It is your responsibility to ensure that the 'services' provided are correct and the specification for the works has been interpreted correctly. This includes but is not limited to: loading, dimensions, lift heights etc. It is your responsibility to ensure that you produce a Risk Assessment and Method Statement (RAMS) in line with the design and that all items detailed are practicable.

**ANCHORS / TIES:**  
The anchors / ties used in design are based on correct installation in accordance with manufacturer's details and the implementation of proof tests in accordance with NASC TG4 (Current) to ensure suitability of building strata. A minimum of 3% of the total number of anchors/ties should be tested to the values indicated in 'LOADINGS' notes. It is the responsibility of the Principal Contractor or Project Management Team to ensure approval of loads is sought from a structural engineer - CREATOR Ltd cannot take responsibility for the existing structure and its load capacity/integrity. It is the responsibility of the scaffold contractor to ensure that load bearing couplers are used for all ties, that they are installed correctly and fully in accordance with the design. Under no circumstances should ties be removed once installed as per the design. Should a tie require removal Creator Ltd should be contacted for advice.

**FOUNDATIONS (SEE AS A BEARING STRATA):**  
It is the responsibility of the Principal Contractor to prepare all ground prior to erection. The forces/pressures to the ground, as detailed in 'LOADINGS', should be approved by the Principal Contractor prior to erection ensuring that settlement is kept to an absolute minimum. All foundations should be regularly inspected and a minimum during the statutory weekly inspection. If at any stage the Principal Contractor / Contractor has concerns with the ground CREATOR Ltd should be contacted immediately.

**FOUNDATIONS (EXISTING STRUCTURAL MEMBER AS A BEARING STRATA):**  
It is the responsibility of the Principal Contractor to ensure that all loads applied to the existing structure are approved by a competent structural engineer prior to erection of the scaffold structure as this involves matters beyond our remit. See 'LOADINGS' for summary of loads to existing structure. Should the existing structure be unable to support the applied loads contact CREATOR Ltd prior to erection to obtain new proposals. Once approval of loads has been made and scaffold has been erected, the existing structure should be regularly inspected by the Principal Contractor.

**DESIGN SERVICE LOADS (LIVE LOADS):**  
It is the responsibility of the Principal Contractor and Scaffold Contractor to ensure that the loads allowed in 'LOADINGS' notes are suitable for the work undertaken and that the loading can be effectively managed by the Principal Contractor during the in-use phase.

**BOARDED LEVELS:**  
The maximum number of boarded levels is as indicated on the design and in the 'LOADINGS' section of the design. It is the responsibility of the scaffold contractor to ensure that the correct number of boarded levels are installed, that boards are in good condition showing no signs of defects and that they are effectively secured against movement.

**MATERIALS:**  
All materials should be in good condition showing no signs of defects. The design is based on the use of BS EN 2482 visually graded scaffold boards, EN 74 couplers and BS 1139 good quality galvanized scaffold tube. All beams and prefabricated members should have a manufacturers identifier and should be in good condition showing no signs of defects.

**DIMENSIONS:**  
All written dimensions should take precedence over scaled dimensions. Any dimensional discrepancies on the design should be notified to Creator Ltd. It is the responsibility of the Scaffold Contractor and/or Scaffold Contractor to ensure the scaffold is set out correctly and in accordance with the design.

**PERMITS AND PERMISSIONS:**  
It is the responsibility of the Principal Contractor/Scaffold Contractor to obtain all permits and permissions prior to erection of the scaffold.

**PROPERTY / MODIFICATION:**  
This document remains the exclusive property of Creator Ltd and should be returned immediately upon request. No modification or alteration should be made to the design without written permission from Creator Ltd.

**LOADINGS:**

TIE VALUES / ANCHOR FORCES	
Maximum Calculated Tie Value / Abutting Value (Unfactored)	3.53 kN (unfactored)
Maximum Calculated Tie Value / Abutting Value (Factored)	2.89 kN (unfactored)
Maximum Calculated Tie Value (Rotted)	2.81 kN (unfactored)
Maximum Calculated Abutting Value (Rotted)	4.72 kN (unfactored)
Maximum Calculated Tie Value (Sheeted)	3.53 kN (unfactored)
Maximum Calculated Abutting Value (Sheeted)	4.83 kN (unfactored)
Maximum Calculated Tie Value (Sheets)	7.87 kN (unfactored)
Maximum Calculated Abutting Value (Sheets)	3.53 kN (unfactored)
Maximum Calculated Tie Value = Proof Test / Plus Test Value (Minimum)	4.83 kN (unfactored)
Maximum Calculated Abutting Value (Minimum)	4.83 kN (unfactored)
LEGIONELLA / REACTION FORCES / BEARING PRESSURES	
Maximum Calculated Legions	22.85 kN (unfactored)
Maximum Calculated Legions	14.57 kN (unfactored)
Maximum Calculated Bearing Pressure = Maximum Calculated Reaction Force(s) - As indicated on design	147.8 kN/m <sup>2</sup> (unfactored)

**IMPOSED LOADS / VARIABLE ACTIONS**

Maximum Design Service Load = 10.00 kN/m<sup>2</sup> on 1.000 kN/m<sup>2</sup> only

Wind Loading (BS EN 1991-1-4) = 1.24 kN/m<sup>2</sup> (unfactored)

Slow Loading (BS EN 1991-1-3) = 0.774 kN/m<sup>2</sup> (unfactored)

**BOARDED LEVELS:**  
Maximum Number of Boarded Levels = 1.000 No.  
Maximum number of boarded levels as indicated on design where different from above.

REV	BY	DATE	CHECKED	DATE	APP'D	DATE
-	BMB	12.05.14	RWB	12.05.14		

AMENDMENTS / REVISIONS

**CHAD SCAFFOLDING**  
ACCESS MADE EASY

UNIT 6,  
HIGHCLIFFE IND ESTATE,  
BRUNTCLIFFE LANE,  
MORLEY  
LEEDS  
WEST YORKSHIRE  
LS27 9LR

FOR CONSTRUCTION

Drawn: MJB  
Scale: 1:50, 25 @ A2

PROPOSED 4m x 7m BOARD WIDE  
LOADING BAY

SEE QUOTE

CREATOR  
SCAFFOLD DESIGNS  
& TEMPORARY WORKS CONSULTANTS LTD

Project House, Grange Lane, Valley Works, Sheffield, S3 0GG  
Email: info@creator-scaffolddesigns.co.uk  
Tel: 0114 3610060  
www.creator-scaffolddesigns.co.uk