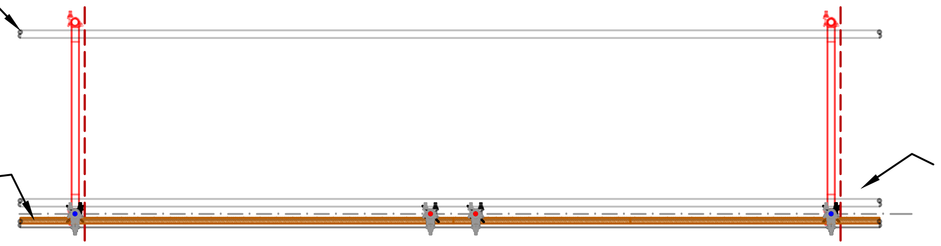
Handrail system should not be installed more than 20.000m above ground level

225 x 38mm BS EN 2482 visually graded scaffold board as toe board secured against movement using board clips or single couplers to uprights. Where a joint in boards occurs install additional tube(s) from handrails to ledger to enable toe boards to be secured against movement.



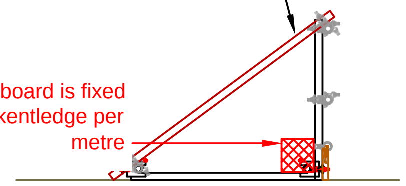
6000mm MAX. FOR STEEL TUBE / 4000mm FOR ALLOY

RISK [3] - OVERLOADING OF EXISTING STRUCTURE
Control Measure: Principal contractor to employ a structural engineer to ensure the applied loads from the scaffold do not overload the existing structure. Creator Ltd to be contacted where structure is deemed unsafe to support scaffold structure.

PLAN LAYOUT
PREFABRICATED TRANSOM OPTION
scale 1:50

Brace at every frame line secured between longitudinal tubes using Class A double couplers

Where toeboard is fixed add 65kg of kentledge per metre

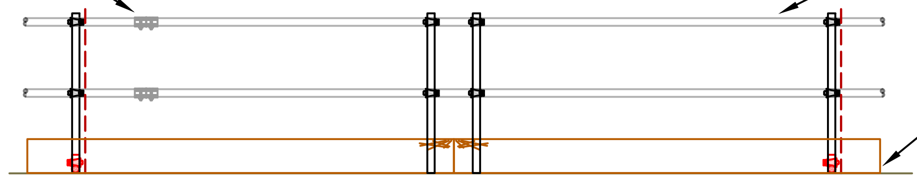


1268

SECTION A – A
scale 1:50

Joints in handrails made using Class A sleeve couplers within ⅓rd points of the bay staggered between handrails

48.3 x 4.0CHS steel or aluminium scaffold tube secured to handrail posts using Class A (EN 74) swivel or double couplers



RISK [4] - FALLING OBJECTS
Control Measure: Principal contractor to carry out risk assessment to determine requirement for toe-board and may be omitted / included as necessary

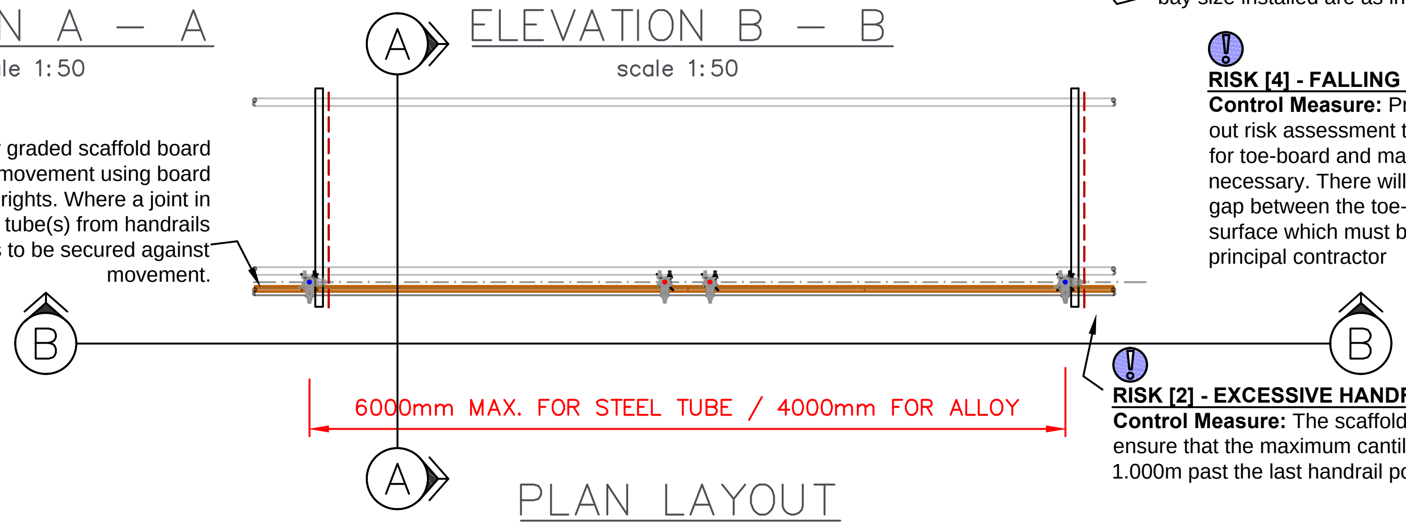
6000mm MAX. FOR STEEL TUBE / 4000mm FOR ALLOY

RISK [1] - 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.

ELEVATION B – B
scale 1:50

RISK [4] - FALLING OBJECTS
Control Measure: Principal contractor to carry out risk assessment to determine requirement for toe-board and may be omitted / included as necessary. There will be a maximum 100mm gap between the toe-board and the working surface which must be risk assessed by the principal contractor

225 x 38mm BS EN 2482 visually graded scaffold board as toe board secured against movement using board clips or single couplers to uprights. Where a joint in boards occurs install additional tube(s) from handrails to ledger to enable toe boards to be secured against movement.



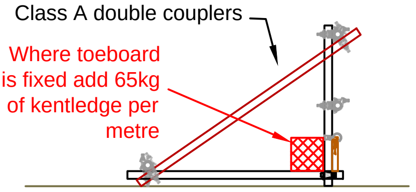
6000mm MAX. FOR STEEL TUBE / 4000mm FOR ALLOY

RISK [2] - EXCESSIVE HANDRAIL CANTILEVER
Control Measure: The scaffold contractor must ensure that the maximum cantilever does not exceed 1.000m past the last handrail post

PLAN LAYOUT
TUBE AND FITTING OPTION
scale 1:50

Brace at every frame line secured between longitudinal tubes using Class A double couplers

Where toeboard is fixed add 65kg of kentledge per metre

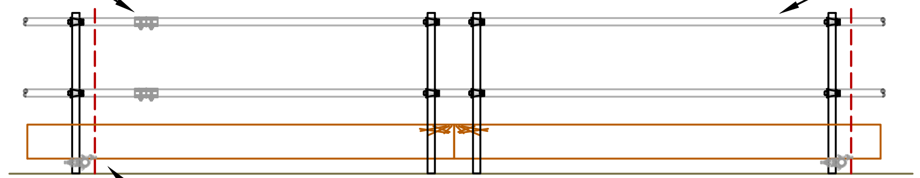


1200

SECTION A – A
scale 1:50

Joints in handrails made using Class A sleeve couplers within ⅓rd points of the bay staggered between handrails

48.3 x 4.0CHS steel or aluminium scaffold tube secured to handrail posts using Class A (EN 74) swivel or double couplers



Handrail system should not be installed more than 20.000m above ground level

6000mm MAX. FOR STEEL TUBE / 4000mm FOR ALLOY

ELEVATION B – B
scale 1:50

BS EN 13374–1 CLASS A EDGE PROTECTION

MAXIMUM HEIGHT OF SCAFFOLD 20m ABOVE GROUND

IF NETTING IS REQUIRED CONTACT CREATOR LTD FOR CONFIRMATION

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) (SHEAR TIE, TENSION TIE)
- Puncheon
- Upright Cut Off
- Residual Risk
- Ledger Brace (Elevation, Section)
- Facade Brace (Elevation, Section)

* Some of the above 'key' items may not be present in design but are indicated on all designs for conformity.

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 5% 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 (SOIL 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 as 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 the existing structure. Should the existing structure be unsuitable 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 should ensure that the loads allowed in 'LOADINGS' notes are suitable for the work being 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 galvanised 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.

LEGLOAD(S) / REACTION FORCE(S) / BEARING PRESSURE(S)

Maximum Calculated Legload =	2.83	kN (factored)
Maximum Calculated Legload =	2.30	kN (unfactored)

IMPOSED LOADS / VARIABLE ACTIONS

Horizontal protection load =	0.450	kN
Wind Loading (BS EN 1991-1-4) =	1.390	kN/m² (factored)
Snow Loading = (BS EN 1991-1-3) =	0.714	kN/m² (factored)

REV	BY.	DATE.	CHECKED	DATE.	APP'D.	DATE.
–	BMB	12.05.14	RWB	12.05.14		

AMENDMENTS / REVISIONS

Prepared For:

CHAD SCAFFOLDING
ACCESS MADE EASY

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

Drawing Status: FOR CONSTRUCTION

Project Number:	Revision:	Scale(s):
CRE/6204/001/4	–	1:50, 25 @ A3

Project Title/Description:
BS EN 13374–1 CLASS A HANDRAIL SYSTEM

Principal Contractor: SEE QUOTE

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