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SITE SPECIFIC METHOD STATEMENT

For the INSTALLATION of SAFETY NETTING
METAL DECKING, EDGE TRIM and SHEAR STUDS

Contract Title

NSD Customer

Site Address

Post Code

NSD Contract Nr

Revision A Date

Revision B Date

Revision C Date

This Method Statement is supported by the following documentation

Approved Code of Practice for Metal Decking and Stud Welding
Faset ACOP for installation of Safety Netting
NSDCFD Ltd Construction issue Drawings
Technical Data Sheets for Deck Installation, Stud Welding and Safety Netting
Met Floor ® Composite Floor Deck Brochure

Northern Steel Decking are FASET Approved installers of Safety Netting.

FASET
Full Arrest Safety Equipment Training

This Method Statement has been prepared by Carl Baxter of Northern Steel Decking Ltd.

To indicate the Company's commitment to Health & Safety and to detail the method to be used.

Signed By : C. Baxter

Date:

- A) The document is to be used as a reference document by all concerned in the Project and in particular, the operatives involved in the site installation process.
- B) All operatives must read the method statement and sign to acknowledge having read it.
- C) See attached sheet at end of this document.

1 Description of works

To supply & install Msq of MF metal decking and safety netting to Building consisting of shear studs

2 Programme

Phase	Delivery	Installation Date	Duration in days

3 Induction

Upon their arrival to site, operatives will report to client Site Manager who will co-ordinate the Site Safety Induction course which will be carried out by Client. At induction NSD will be made aware of the site first aiders, and the site emergency plan & fire assembly point. After site induction, NSDI Ltd Site Manager will conduct site safety toolbox talk and remind all operatives of their responsibilities to work safely at all times and ensure they sign Method Statement. Should the scope of works need to change from this method statement the works must **STOP**, be reviewed & a method statement & if required risk assessment addendum carried out before works can resume.

4 Safety Netting

2 man team

- 4.1 Consideration has been given to the most suitable options of fall arrest that are available for the installation of decking. Schedule 1 of the Management of Health and Safety at Work regulations 1999 requires the provision of safety nets in preference to any other fall arrest systems.
- 4.2 All Safety Net equipment used shall comply fully with EN 1263 Part 1.
- 4.3 All Safety Netting installed will comply fully with EN 1263 part 2.
- 4.4 Safety Netting will be rigged between the primary steelwork across each of the bays in one operation. The nets will be tied only to suitable steelwork only. Rigging centres (2.5m max) and pre-sag (10%) will be closely followed. Any excess net will be gathered in to give a flush finish.
- 4.5 Handover certificates detailing completed areas will be produced.
- 4.6 Access to steel for net installation ground to underside of floors by hook claw system & footed ladder. MEWP - TBC if required to remaining floors.
- 4.7 Removal of nets will be by reverse means of erection. All nets will be inspected prior to removal for any debris that may have been missed when checked by the decking team, if any debris is found within the net this will be removed before the net is taken down.

5 Metal Decking

2 man team

- 5.1 Prior to the commencement of decking operatives must check all safety netting and edge protection is in place. A copy of the hand over certificates must be obtained & regular checks will be made of the edge protection I.E start of each working day & after breaks. Any defects must be reported to site management & NSD management. **NO WORKS ARE TO CONTINUE UNTIL IT IS SAFE TO DO SO.**
- 5.2 Prior to the commencement of decking operatives must ensure site hot works permit system is in place.
- 5.3 No personnel or equipment other than NSDI's' be allowed onto or under the deck without permission until it has been properly handed over. No work shall be carried out above or below our area of operations - Client shall be responsible for the phasing of other works, such that this is possible. Bunting and signs must be erected by NSDI Ltd preventing any other personnel gaining access.
- 5.4 Prior to the commencement of our works all holes, voids and edges must be protected with an Edge Protection System. Tube & Fitting System will be in place throughout the build. Care must be taken to prevent fittings clashing with installation of slab edge trim
- 5.5 Weather conditions: Decking bundles should not be broken open if the sheets cannot be left in a secure and safe condition due to hazards caused by changing weather conditions (i.e. high winds). In the event that a bundle is opened and only part fixed the unopened sheets will be secured at the end of each day by using a temporary strap secured to decking.

5.6 Prior to the commencement of decking, CLIENT will provide access to the level of our work.

A scaffold type staircase will be required as a minimum.

5.7 Deckers will cut banding from deck bundle with snips. Care will be taken to stop banding from falling into the net.

5.8 The deckers can then commence laying the sheets, which will be lifted from the bundle one at a time, one man at each end of the sheet and laid directly in front of the bundle. Each subsequent sheet being laid against the last, making a safe working platform away from the bundle

5.9 Each sheet will be fixed by Shot Fired Fixing to the top flange of the steelwork progressively as installation proceeds. Fixings to masonry/concrete will be a proprietary drill hit screw fixing. (Hilti DX Powder-Actuated tools are utilized)

To conform with HAV's guidance, the table below shows how many shot fired fixings will be used. and will be recorded on cartridge register.

Deck Quantity	Total fixings	Duration	fixings/day	allowed max.	pp/day	pass/fail
0	0	0	#DIV/0!	1000		pass

To conform with the physical Agents (Noise) Directive 2003/10/EC Operatives will be required to use Suitable hearing protection to reduce their exposure level to 67dB(A). NSDI will erect hearing protection signage around our exclusion zone to make others aware that hearing protection may be required.

5.9a The use of petrol cut off saw's will be recorded on a daily record sheet. The manufactures guide lines recommend that in any 8 hour shift the usage of a petrol saw must not exceed 65 Min's per shift per man. NSDI use only Makita & Still type petrol cut off saw's.

5.10 There will be one fixing at each end of a sheet and one over any intermediate support, where stud welding will offer further fixings. Any beams not stud welded will have 2 fixings

5.11 The minimum bearing requirements for the decking are 50mm on steelwork and 75mm on masonry or concrete.

5.12 For columns up to 254 x 254 in size the decking sheets will be notched around columns and should there be no supporting steelwork under, temporary support will be provided by securing a piece of edge trim into the web of the column. This is purely a temporary support for purpose of deck laying and not when concreting. Foaming will also be provided in the web of columns where sheets have been notched, to **MINIMISE** grout loss

5.13 Edge shutters are supplied in 3.000m standard lengths; each length will be fixed at the perimeter and straps fixed at centres as indicated on the drawings with self-tapping screws.

5.14 In certain situations, where there is no supporting steelwork around the proposed opening, voids will be decked over, boxed out by others, concreted and decking cut out later by others.

5.15 All cutting of decking will be carried out over the laid deck to stop any off cuts of metal falling into the net. Upon completion of laying deck, nets will be inspected for any debris. Any debris found must be removed prior to moving to next area or commencing trim fitting.

6 Stud Welding

2 man team

6.1 Prior to the commencement of decking operatives must check all edge protection is in place. A copy of the hand over certificates must be obtained & regular checks will be made of the edge protection I.E start of each working day & after breaks. Any defects must be reported to site management & NSD management. **NO WORKS ARE TO CONTINUE UNTIL IT IS SAFE TO DO SO.**

6.2 Prior to the commencement of welding operatives must ensure site hot works permit system is in place.

6.3 This process created molten weld splatter both above and below the area of welding works. NSDI will erect signage and bunting to warn of this operation but it is the main contractors responsibility to co-ordinate other trades that they are not put to work in or around our works.

6.4 Studwelding cannot take place through reinforcing bar or fabric due to the hazards that exist with the welding equipment short - circuiting against the reinforcement. In the event that any area is meshed etc. Studwelding operatives are under strict instructions to refuse to weld & notify NSDI. Contracts supervisor.

- 6.5 Due to the high temperatures involved in the welding process some scorching may occur to the paint on the underside of beam flange. Any remedial painting required at **no cost to NSDI**.
- 6.6 Stud-welders will be operating a Nelson 2800 or similar welding plant
Power supply will be achieved by using a mobile generator housed in a 17 tonne lorry. Access must be provided and maintained to within 7.5 metres of the earthed frame and that the distance between the generator and the stud welding tools does not exceed 60 metres.
The stud rig will be positioned along GL to obtain an earth point.
- 6.7 The earth lead from the Studwelding generator is required to connect to the steel frame. This is achieved by removing a small area of paint and attaching a clamp connected to the lead
- 6.8 Start Up Procedure: before starting any stud welding operation, or after the welding equipment has been moved, changed or not used for a period, trial or test studs will be welded. A minimum of two test studs will be welded. These studs will then be bent to an angle of 30° from the original axis by placing a pipe over the stud and manually bending the stud. If failure occurs in the weld zone of either stud, the set up will be corrected or adjusted and the tests repeated.
- 6.9 Testing: all trial welds will be visually inspected. Two consecutive studs will be welded and found satisfactory before any production studs are welded.
- 6.1 A minimum number of 2 studs per beam should be tested, if a failure is found then the studs on either side of the failed studs should also be tested.
- 6.11 Welding will not be carried out in inclement weather when water cannot be kept from laying on the deck or beams, also when the temperature is below freezing.
- 6.12 Upon completion of the stud welding work the ceramic ferrules will be broken away from the base of the stud so that the visual inspection can be made. The ferrules will then be left on the deck either to be blown out with other debris by following trades or left to be absorbed into the concrete.

7 Manual Handling

- 7.1 The Manual Handling Operations Regulations 1992 place a legal responsibility on employers to ensure that any Manual Handling Operations are eliminated so far as is reasonably practicable
- 7.2 Mechanical assistance is required in lifting barrels of studs on to floors when possible. If a mechanical lift is not available studs will be decanted into manageable quantities & carried to the required level in buckets.
- 7.3 The table below shows the maximum weight lifted in this contract.

Deck type	gauge	weight/LnM	max ln M	total weight	span	effective weight
MF55	0.9	8.129		0	double	0 Kg
MF55	1.2	10.855		0	double	0 Kg
MF60	0.9	6.234		0	double	0 Kg
MF60	1.2	8.324		0	double	0 Kg
MF80	0.9	6.706		0	double	0 Kg
MF80	1.2	8.954		0	double	0 Kg
MF55	0.9	8.129		0	single	0 Kg
MF55	1.2	10.855		0	single	0 Kg
MF60	0.9	6.234		0	single	0 Kg
MF60	1.2	8.324		0	single	0 Kg
MF80	0.9	6.706		0	single	0 Kg
MF80	1.2	8.954		0	single	0 Kg

When laying double span sheets, the deck is only lifted at one end off the bundle and dropped onto the steel. The sheet at one end is lifted to its destination then the opposite end is kicked round until squared off and clips onto preceding sheet. Hence, the effective weight is half of its actual weight. Single span sheets are their full weight as they have to be carried to their destination with an element of care. However as they are usually half the length of a double span sheet, they are still within the normal carrying ability of our site operatives.

8 Fire Precautions

The area in which the stud welding is to be carried out including the floor below will be clean and combustible materials removed to distance of not less than 7M from where steels are being welded.

NSD. will bring to the attention of the client any situation where a flammable hazard obviously exists, although it must be noted that some materials are not obviously a risk

NSD operatives will carry & make available at the area of work a 9 litre water & or a CO2 fire extinguisher. Extinguishers are annually inspected, in the unlikely event that a extinguisher should need to be deployed a NSD manager/supervisor will be informed immediately. The discharged extinguisher will be removed from service & replaced with a new extinguisher.

9 Removal of Waste Materials

Upon completion of the metal decking work any surplus decking materials and debris will be placed into the site skips provided by client

The scrap will be removed by a controlled drop and removed from site by NSD.

10 NSDI PERSONNEL

Managing Director:	Jack Fulton	07841 993 657
Senior Contracts Manager	Carl Baxter	07841 993 659
Contracts Manager:	David Fulton	07841 993 671
Health and Safety ProActive:	Stephen Woolf	07921 474 103
SSSTS Working Foreman:		

11 Certificates & P.P.E.

All staff will carry with them at all times the relevant training certificates and PPE. This will include: FASET, CSCS and IPAF for Netters; CSCS & Studwelding competency certificates for stud welders; CSCS, Hilti and Abrasive wheels for Deckers.

All staff will make use of mandatory PPE including: Helmets, EN 397, Ear Defenders, EN 352-3 Goggles/Safety Glasses & weld visor,(EN 166:2002 protection class:grade B) Gloves,(BS EN 388:1994) Hi Viz vest, full length trousers and steel toe capped laced ankle boots.

12 SITE SPECIFIC REQUIREMENTS



