

STANDARD SAFETY AND WELFARE ATTENDANCES REQUIRED ON SUB CONTRACTS FOR THE SUPPLY AND FIXING OF METAL DECKING FLOORS AND SHEAR STUDS

The attendances noted herein shall be provided on site by the contractor for our use, free of charge, and shall comply with the requirements of the Construction (Health, Safety & Welfare) Regulations 1996 and any other relevant Statutory Obligations in force. Defined terms herein shall bear the same meaning as defined in Richard Lees Steel Decking Limited's Terms and Conditions of Sale.

1) MATERIALS AND WORK INCLUDED: Our quotation is limited to the supply and fixing (using Hilti cartridge tools) of decking panels, edge trim and shear studs if quoted. No other ancillary items or other methods of fixing have been allowed for unless expressly stated in the Quotation.

2) DELIVERY: The contractor shall provide and maintain suitable access, hard roads and standing areas on site entirely suitable for the safe passage of delivery lorries and mobile plant.

3) DELIVERY LOADS: Unless stated otherwise in our quotation the decking will be delivered in full loads on a 36 tonne gross weight articulated lorry 16 metres long with a turning circle of 19 metres. Access to the site and any offloading areas should be a minimum of 6 metres wide.

4) OFFLOADING & HOISTING TO LEVEL & LOCATION: The contractor shall provide all craneage and labour for offloading, hoisting and placing of our materials to the required level and location.

Materials include:

- Decking bundles
- Edge Trims, Flashings and Closures
- Shear Stud barrels
- Safety Nets
- Air Mats

The metal decking will be delivered in bundles; the exact size will vary depending upon the length of the panels but would normally be a maximum of 1m wide by 1m deep with a weight of up to 2 tonnes. Our site supervisor will visit the site prior to commencement of our works and he will mark up drawings showing the precise location & orientation to which the decking bundles and edge trims must be positioned on the structure. Any haulage waiting time over a 2 hour unloading period will be charged at £100 per hour.

5) ATTENDANCES: The contractor shall provide all attendances necessary for compliance with the Construction (Health, Safety & Welfare) Regulations 1996, including first aid, together with the following attendances free of charge:

- Suitable ladder or stair access.
- Double handrail perimeter scaffolding to all deck perimeters, internal voids and phased edges prior to commencement of our decking works.
- Suitable skips lifted to our working area at each level for removal of scrap – otherwise scrap and offcuts will be placed at a central point at each level for disposal by the contractor.
- 110 Volt power supply to our working areas.
- Scaffold boarding for access to fix edge trim and shear studs to isolated beams or areas where safety netting/safety airmats are not practicable to use.

6) GENERAL SAFETY: No personnel or flammable materials are allowed on, above or below the areas in which our fixers and stud welders are working. All necessary protection is to be provided and maintained by the contractor. RLSD will zone off the area immediately below using barrier tape. Any other type of barrier, fire watchman, etc is to be provided free of charge by the contractor.

7) NOTICE TO COMMENCE WORK: We require 7 working days notice for all delivery call offs and 7 working days notice prior to commencing work or return visits to site.

8) CONTINUOUS WORKING: Unless stated to the contrary on our quotation our prices are based upon work being continuous, uninterrupted and carried out during normal 8 hour working Mon – Thu and finishing at 2.30pm on Friday. A minimum clear area of 250 square metres per day visit per 2-man erection gang must be handed over to us to allow continuous working. Revisits caused by a failure to provide sufficient clear area for continuous working will be charged at extra cost.

9) PROPPING: Should the design require temporary propping of the decking the contractor shall arrange to carry out this work free of charge prior to the pouring of the concrete. Where long or simply supported spans occur, propping may be required prior to the laying of the decking to allow safe access onto the decking and to avoid any damage or deflection of the decking.

10) BEARINGS: The contractor shall provide all suitable fixed supports to the ends of all sheets and around large cut outs, voids or any steelwork connections on our working areas prior to the decking being fixed.

11) TRIM-LINE AND LEVEL: Edge trim will be fixed to line in the horizontal direction but will follow the contour of the steelwork to which it is fixed, in the vertical plane. Consequently, the responsibility for providing a finished concrete floor level to a datum is the responsibility of the concrete subcontractor or others.

12) SETTING OUT: We have included in our fixing rate for the setting out of the decking and edge trim to be measured from the centre line of the steelwork upon which it is to be fixed, in accordance with tolerances given in BCSA guidelines for Metal Decking and Stud Welding.

13) NOISE: Noise levels for laying, cutting and fixing of decking will exceed the second action level. Noise levels are typically: shot firing 110 db(A), cutting decking with Stihl saw 110 db(A) and laying decking 100 db(A). The contractor must ensure that either all other personnel are kept at least 10 metres away from the noise source or they are provided with suitable ear protection.

14) WELDED SHEAR STUDS: FLANGE PLATE: The flange plate thickness of the underlying beams should not be less than 7.6mm. Any steelwork to which shear studs are to be fixed **must not be primed, painted, galvanised or coated in any way**. It will be the responsibility of the contractor to provide for the adequate preparation of the beam prior to stud welding. The beam must be cleaned of all rust, scale, primer, paint, grease or any other coating by grinding so as to provide a clean area for the full width of the flange prior to commencing the laying of the decking.

15) MAINS POWER SUPPLY: Where our quotation has been based on using a mains powered welding convertor, we will require a 415 volt 3 phase power supply fused at 135 Amps/phase. The power point must be installed to within 7.5 meters of the structural steel frame with a maximum distance to our working area not exceeding 80 metres. If the distance from the power point to the steel frame exceeds 7.5m a fabricated earth must be provided. The power supply and distribution points are to be provided and maintained free of charge by the contractor. Our convertor is to be hoisted to level and area, and relocated as the works progress, by the contractor.

16) MOBILE STUD WELDING RIG: Where our quotation has been based on using a mobile stud welding rig the contractor is to ensure suitable access is provided and maintained to within 7.5 metres of the steel structure where stud welding is to be applied. The overall size of the rig is approximately 7m long x 2.6m wide and 3.5m high with a gross weight to 15 tonnes. If the distance from the power point to the steel frame exceeds 7.5m a fabricated earth must be provided. The maximum length of welding leads to the designated work area is 80 metres when the rig is in position. If this access cannot be provided please contact our Construction Department to agree an alternative method of working.

17) STATIC GENERATORS: Where our quotation has been based on using a static generator, suitable craneage and labour must be provided by the contractor free of charge to offload our generator, lift to level and subsequently reload as required. The generators have a gross weight of 5 tonnes and measure 3m long x 2m wide and 2m high.

18) EARTHING: It is imperative that a good earth through the main steel frame is available and maintained throughout the time that stud welding is carried out. Any damage to the welding plant caused by a failure to maintain this earthing will be charged to the contractor.

19) VENTILATION: Our operator must be provided with adequate room in which to operate the stud welding rig or generator. When work is carried out in enclosed areas the contractor shall provide adequate ventilation to extract weld fumes and exhaust gases generated during the welding process.

20) NOISE: The noise output from stud welding exceeds the second action level. The noise level from the stud welding generator is typically 85 db (A). Noise levels recorded whilst hammering decking, studs or ferrules are typically 115 db (A).

21) TESTING OF STUD WELDS: All testing of studs to the required specification must be carried out whilst our stud welding operatives are on site using the specific testing tool provided by us.

22) FERRULES: The ceramic ferrules will be broken away from the base of the stud and left on the decking to form part of the concrete aggregate. If ferrules are to be removed by RLSD then this can be carried out at extra cost.

23) PROTECTION OF WORKS: All protection associated with or necessitated by our works, stud welding or otherwise, is the responsibility of the contractor and suitable protection, e.g. protection of glazing or other sensitive material from welding splatter, should be in place prior to commencement of our work.

24) PRICES: Our quotation is based on information notified to us at the time of the enquiry. Should extra cables, plant, equipment, tools, etc. be subsequently required to fulfil special requirements or negotiate difficult conditions of access which were not notified to us at the time of the enquiry these will be provided at extra cost.

25) HILTI SHEAR CLEATS: Hilti shear cleats are often used in lieu of welded shear studs in controlled environments where thru-deck shear stud welding cannot be carried out. Hilti shear cleats can be supplied and fixed at extra cost subject to the approval of the engineer.

Note: Richard Lees Steel Decking Ltd is an approved Hilti specialist fixing company.

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