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Report Purpose - *Method statements fro removal of steel stairs and making good*

Submission Date: 11th July 2023





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## **Methodology & Workmanship**

### **INTRODUCTION DESK STUDY / SURVEY**

Before starting any works, the contractor should examine all available information and carry out;

- - A review of the scope of works as detailed to this method statement and the drawing package.
- - Ensure that the necessary agreements / consents are in place regarding works to listed buildings.
- - A review of the access requirements / limitations of the site and surrounding area.
- - A review of the access arrangements for the works and restrictions due to the existing fabric and maintaining access for occupants.
- - A review of the fabric condition and areas which may be unsafe due to the deterioration of the fabric.
- - Ensure a photographic survey of all areas subject to the investigation works is undertaken
- - Thoroughly familiar with the historical and archaeological importance of the site and its structures and the specific requirements that this places on the methods of working.
- - Familiar with the location of the services.



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- **1.0 Introduction**
- 1.1 This Specification & Schedule of Works has been prepared by CubicWorks, along with specialist contractors
  - . It is for removal and making good of existing stairs which include;
    - A: Analysis
    - B: Preparation
    - C: Demolition
    - D: Making good
- 1.2 Site Address  
Langley Buildings 40-46 Princess Street  
Manchester
- 1.3 This report consist of three parts, following this introduction the second part contains methodologies for the works and the third parts contains a schedule of the works.
- 1.4 This report should be read in conjunction with the following drawings & reports;
- Appendix A: Documentation and drawings
- Appendix B: Method statements for Micro clean
- Appendix C: Decoration/preservation

**Appendix A: Documents and drawings.**



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Existing elevation



Proposed elevation



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Existing elevation



Existing elevation

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Safe System of Work  
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**DEMO SOS (STRIP OUT SOLUTIONS) LTD**

**SITE-SPECIFIC  
SAFE SYSTEM OF WORK**  
For  
**40-46 Princess St  
Manchester  
M1 6HR**



**INCORPORATING  
RISK ASSESSMENT & WRITTEN WORK METHOD**

|                                                                                                                       | Author | Date     | Reviewer | Date     | Description of Modifications                                |
|-----------------------------------------------------------------------------------------------------------------------|--------|----------|----------|----------|-------------------------------------------------------------|
| Original                                                                                                              | GR     | 22/11/21 | GR       | 22/11/21 |                                                             |
| Revision 1                                                                                                            | GR     | 20/12/21 | TP       | 20/12/21 | Amended for use of gas arc to cut steel to manageable sizes |
| I acknowledge receipt of this Plan of Works and appendices.<br>I confirm that I have read and understood the contents |        |          |          |          |                                                             |
| Signed by Site Supervisor                                                                                             |        |          | Date     |          |                                                             |
|                                                                                                                       |        |          |          |          |                                                             |



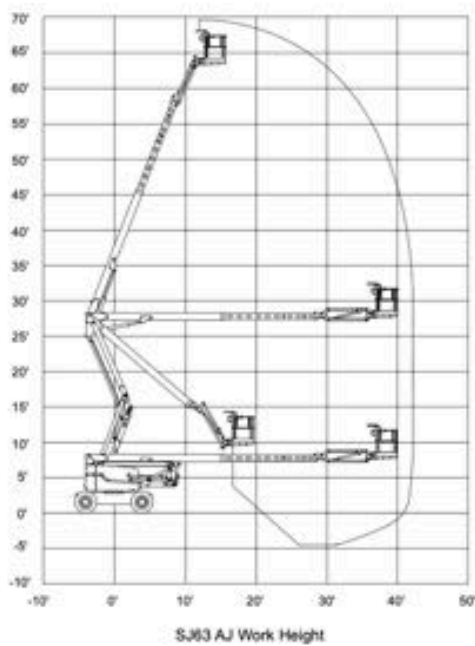
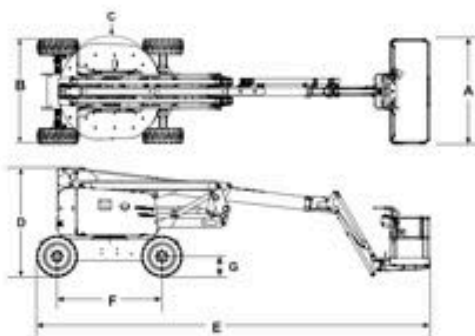
SKYJACK

## SJ63 AJ ARTICULATING BOOM



## SJ63 AJ ARTICULATING BOOM

| Dimensions                           | SJ63 AJ                  |
|--------------------------------------|--------------------------|
| Work Height                          | 69'7" (21.21 m)          |
| Platform Height                      | 63'7" (19.38 m)          |
| Horizontal Reach                     | 40' (12.19 m)            |
| Up and Over Height                   | 27'6" (8.38 m)           |
| A Platform Size                      | 36" x 96" (0.91 x 2.4 m) |
| B Stowed Width                       | 96" (2.44 m)             |
| C Tailswing                          | Zero                     |
| D Stowed Height                      | 100" (2.54 m)            |
| E Stowed Length                      | 30' (9.14 m)             |
| F Wheelbase                          | 8' (2.44 m)              |
| G Ground Clearance                   | 13" (0.33 m)             |
| Specifications                       | SJ63 AJ                  |
| Rotation                             | 360°                     |
| Platform Rotation                    | 170°                     |
| Jib Length                           | 5' 6" (1.68 m)           |
| Jib Range +/-                        | +65° / -60°              |
| Weight                               | 21,200 lbs (9,616 kg)    |
| Gradeability                         | 45%                      |
| Turning Radius (Inside)              | 7'3" (2.21 m)            |
| Turning Radius (Outside)             | 17'5" (5.31 m)           |
| Axle Oscillation                     | 4" (10.16 m)             |
| Drive Speed (high speed)             | 4.5 mph (7.3 km/h)       |
| Capacity                             | 500 lbs (227 kg)         |
| Local Floor Load (With Rated Load)   | 167 psi (1,151 kPa)      |
| Overall Floor Load (With Rated Load) | 245 psf (11.73 kPa)      |
| Maximum # of Persons                 | 2                        |
| Tire Type                            | Grip lug air-filled      |
| Tire Size                            | 10.5 x 17.5              |
| Diesel Engine                        | 74 HP                    |
| Dual Fuel Engine                     | 61 HP                    |
| Fuel Tank Capacity                   | 30.4 gal. (115L)         |
| Hydraulic Reservoir                  | 30.4 gal. (115L)         |





**Demo SOS (Strip Out Solutions) Ltd**  
**Safe System of Work**  
**Strip-Out**



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## DEMO SOS (STRIP OUT SOLUTIONS) LTD

### SAFE SYSTEM OF WORK FOR REMOVAL OF EXTERNAL HIGH LEVEL STEEL FIRE ESCAPE STAIRS

#### 1. Introduction

Demo SOS (Strip Out Solutions) Ltd work to a rigorous on-site safety system that has been documented within this set of RAMS. From information received from the client and the client's representative, as well as our own site visit this document has been drawn up to find the safest method of works.

#### 2. Description of Work

Removal of external high level steel fire escape stairs

Start date: 04/12/21. Work Period: Approximately 2 days. Working time: - 07.30 – 17.30

##### Key points are: -

- Professional Group to agree to DSOS RAMS
- DSOS to mark out items to be removed
- Waste to be placed directly into skip/waste van which will be placed/parked as close as practicable, and if possible, within the hoarding / road closure area adjacent to the building.

##### Relevant documents are: -

- Plans
- R&D Asbestos Survey

#### 3. Sequence of Work

- Sign up to Professional Group health and safety inductions
- Sign up to DSOS health and safety inductions (including walking the works area)
- Install relevant barriers and signage and mark up works to be carried out
- Allow enough time at the end of the shift to clean all areas that have been worked on



## 7. Method of Strip Out Works

### General:-

- Client to set up welfare, fencing & signage
- R&D survey to be checked before works commence
- All items to be stripped out to be agreed with client before works commence
- All waste to be removed from immediate area directly into the cage van on site

### Works:-

#### Removal of high level external steel staircase

- Ensure fire exit doors accessing the staircase will be secured and unable to be opened for the duration of the works. CW to ensure a more permanent solution after completion of the stair removal.
- Heras style fencing will be set up from the entrance to No. 2 Harter Street, across the road to the corner of the newly hoarded area. A banksman will be in attendance at ground level to a) give guidance to persons accessing the welfare facilities, and b) ensure persons accessing / egressing No.2 Harter Street are protected from risk as a result of the works. (Also see item below re: banksman).
- The MEWP will be operated by a IPAF trained operative and moved into position so as there will be no over reaching from the basket whilst works are ongoing
- Gas bottles will be sited on Floor 7 for the duration of this work element. The burning equipment and hoses will be fed through an opening window to the man in the MEWP. On completion, the gas bottles will be removed from site, or at the end of each shift.
- Hot works permit will be obtained, and firefighting equipment will be put in place, within the building, on the ground and in the MEWP. A fire watchman will be inside the building and within sight of the works ongoing (levels 9, 7 and 5)
- A nominated banksman (IPAF trained) will be at ground level to stop any other users of the building/road going into the exclusion zone. The banksman will also be able to use the ground level controls if needed to bring the basket down in case of emergency (See rescue plan)
- The burner within the MEWP basket will dismantle the staircase working into the staircase from the face away from the building. If fixings can be removed using impact wrenches/recip saws then this will be done. Any fixings that cannot be safely reached will have the steel burned using the burning equipment
- A rope may be utilised to secure the sections being cut temporarily and prevent the sections from falling, should they become loose. These will be brought down to ground level and placed directly into the caged van for removal. No materials will be stored in the area overnight.
- This process will be repeated until all of the staircase has been removed.
- The sequence will be to remove handrail sections first, followed by stair treads, then the stair strings. The landings will have the grids removed, followed by the frames and brackets. Sections removed will be processed so that none weigh more than 40kg. No more than 2 No. sections will be placed in the basket by the operative therein.
- The burning equipment and gas bottles will be removed from the basket and removed from site
- The MEWP will be placed within the hoarded compound at the end of each shift and be left ready for collection on the 6<sup>th</sup> December

Remaining fixings after removal of the staircase



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## Masonry repairs and making good



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### **Restoration to small spalls, larger areas of lamination or decay and failed previous repairs**

1. Carefully cut out areas of decayed or defective stone using hand tools to leave a sound keyed surface.
2. Edges to repairs should be slightly undercut to assist a key and attain a minimum depth of 10mm to avoid feather edges. Repairs to be squared off to mimic the appearance of a stone indent
3. Introduce non-ferrous reinforcing rod and wire to deep areas or where repairs are projecting securing reinforcement with an appropriate polyester resin, according to need and the extent of repair.
4. Introduce any preformed supports according to need and the extent of repair.
5. Restore forward in layers in specialist lime-based Stone Restoration Mortar compressing well on to a pre dampened surface and around any reinforcement. For continuity and mix control pre bagged restoration mortar from companies such available. Or mixes should be developed on site and installed by only experienced Mason Restorers.
6. A separate colour will be required for the restoration of brick surfaces.
7. The finish is to be worked with wooden profiles to match the original profile.
8. Should it be found that upon cutting away that the depth of decay precludes achieving a sound mechanical base on which to apply the repair mortar it may be necessary to affect a new stone replacement.

**Completed works**



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