Construction site; _____

Date:

Ref. No: XXXXX

Your Company Name or Group

Method Statement for:

Use and Fixing of Sturdy Products UAE ltd
Waste Chute System
for use on
High Rise Construction Sites

Prepared By: John J Hanlon Director

Reviewed By: XXXXXXXX / Project Safety Manager

Checked by : XXXXXX / Senior Project Manager

Review Date	Reviewed By	Date of Next Review	Review Date	Reviewed By	Date of Next Review

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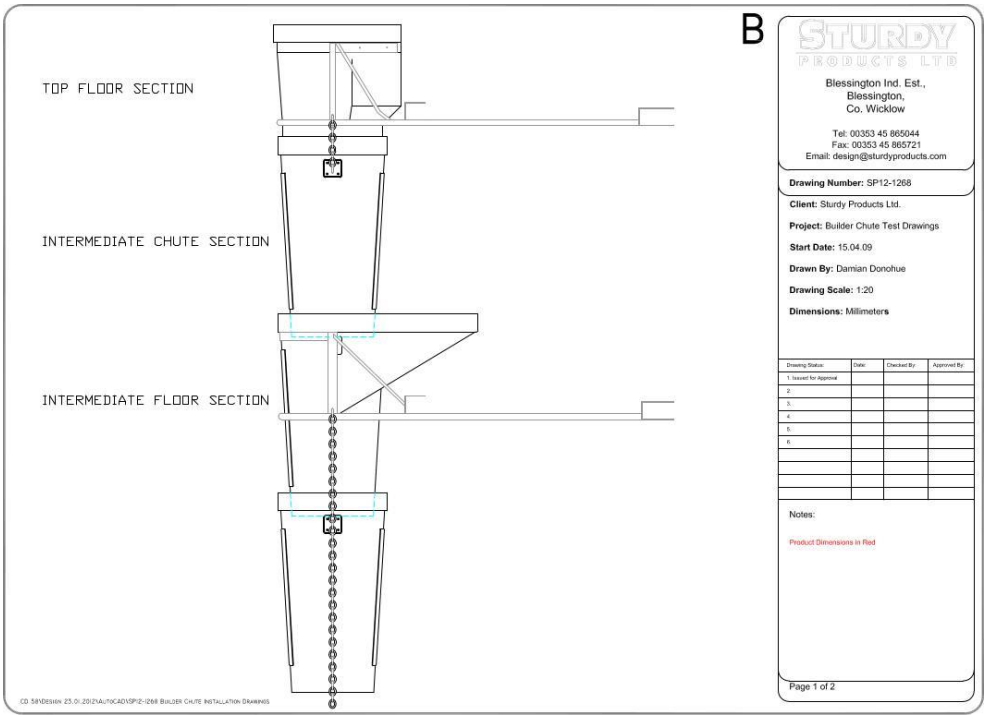
1 Scope: Method Statement

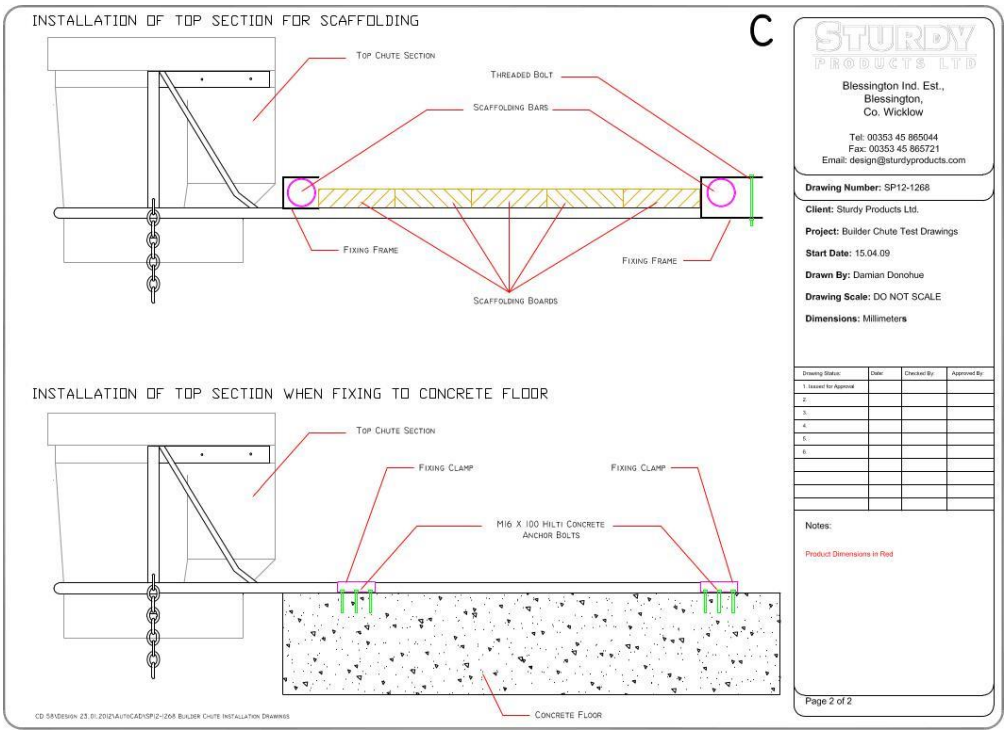
This method statement provides the controlled sequences of work, methodology and safety precautions that will be used to; install a Sturdy Products Waste Chute System on High Rise building during construction phase

2 Description of the works & sequence:

2.1 Procedure:

See Appendix 1 SPUAEL ISO Data sheet extract





Please refer to the Layout specific for each part of the building / site

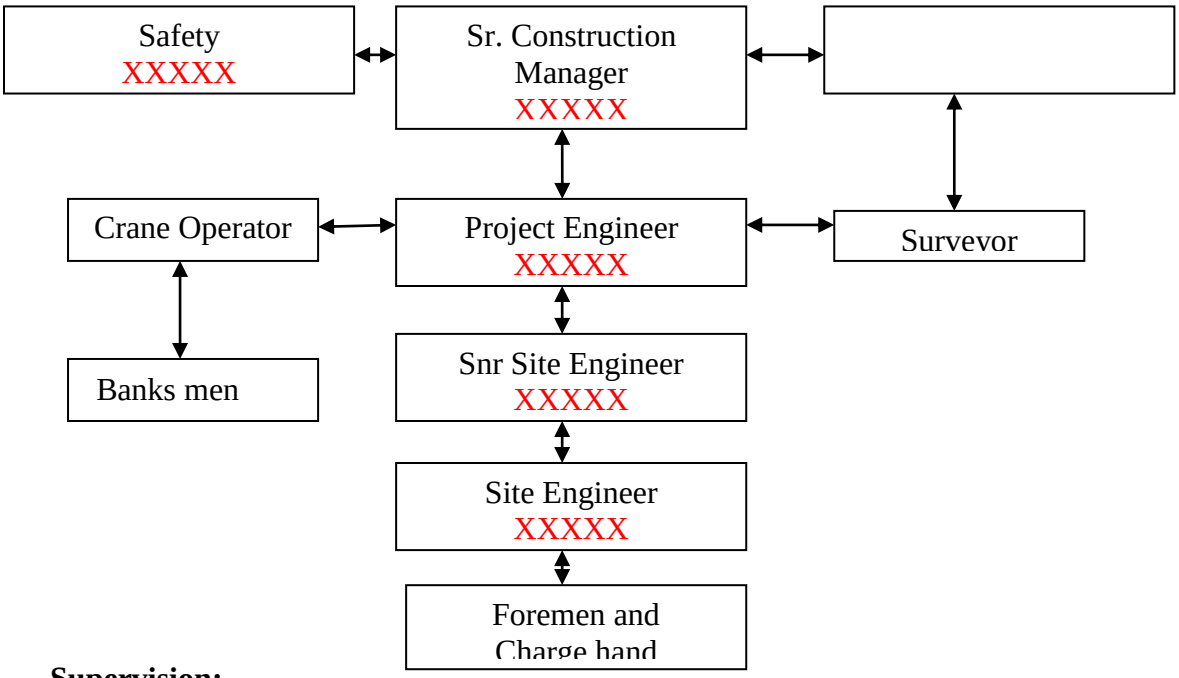
Time: on approval of this method statement; on going

Duration: Site duration

Location Area: As per attached site plan drawing.

3- Resources Required

Personnel/ organisation chart



Supervision:

Supervision:

All works will be monitored by your staff: Construction Manager, Site engineer, Surveyor, Foreman and charge Hands

Plant / equipment:

Hammer action 110V Drill suitable for fixing M16 X100mm bolts; M16 Spanner

Materials:

Sturdy Products Waste Chute, Roto.-Moulded Polyethylene with Galvanised steel fixing frame.

4- Assessment of significant risks

Risk Assessments

Please refer to the attached Risk Assessment (Appendix 2)

5 Control Measures

6 Personal Protective Equipment requirements:

Refer to risk assessment and control measures. Basic for all personnel is hard hat and High visible vest, protective footwear, eye protection and dust mask when required.

7 Emergency procedures

All the emergency procedures as stated in the Safety Plan will be strictly implemented.

Emergency Contact name and Number:

XXXXXX 056 XXXX

XXXXXX 050 XXXX

XXXXXX (Night Shift) 050 XXXX

Male nurse XXXXXX 056 XXXXX

8 Temporary Amended services; N/A

9 To whom will the information be submitted?

Confirmation of operatives Briefing:

All operators involved will be briefed and a signature register will be submitted to the Safety Manager, XXXXXXX for approval.

10 Environmental

All the components of the Sturdy Products Waste Chute are fully Recyclable.
Sturdy Products UAE Ltd offer an optional take back service for all their products. Plastic components are recycled and reused the steel parts can be recycled through scrap metal recyclers.

11 Monitoring and compliance

Our Company will ensure compliance with the above by undertaking the following measures:

The site specific Supervisor responsible for the works will ensure that the work area has been inspected and is free from risk of injury or that suitable and sufficient measures have been taken to comply with current health and safety legislation prior to any work being undertaken.

Appendix 1

XXXXXXXX Group
Method Statement for Sturdy Waste Chutes --- Appendix 1

QP 09 APPENDIX 6.1 FORM REF: SF P 24

PROCEDURE FOR BUILDER CHUTE INSTALLATION

FILE NO. M.F.N.: 036

DESCRIPTION OF PRODUCT:

Chutes are used in building construction where it used as a channel / feed path to throw construction waste like debris, stones, wood etc from each floor of the building to the big waste collection container on the ground floor. Parts of the cutes are listed below.

1. Top Section
2. Top Section Frame
3. Chute Section
4. Intermediate Section
5. Intermediate Section Frame
6. **Clamps to fix frame on the concrete floor if it is not fixed on scaffolding**.

ESSENTIAL REQUIREMENTS:

1. That it should not break easily on impact load.
2. That it can be easily dis-assembled if blockage occurs.

STRUCTURAL REQUIREMENTS:

1. It is exposed to impact load; inner surface should be free from any inner projections.
2. Fixing of plastic body to the frame and chain bracket has to be secure.
3. Load bearing capacity of all elements should be sufficient to take load possible between each lift.
4. If Blockage occurs and Chute fills the load bearing elements should be structurally sound to take any resulting loads

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ATTACHMENT TO BE FITTED TO THE PRODUCT:

1. **Chute Section**

a) D – bracket – 2 pcs Min. 1 Ton. S.W.L.

b) 8mm Caribbean clip – 4 pcs Min. 1 Ton. S.W.L.

c) Product Sticker require 2 pcs

d) 4mm chain 2 length (each 1 mtr) Min. 1 Ton. S.W.L.

2. **Intermediate section**

Intermediate section is fitted with fixing frame

3. **Fixing frame**

Fixing frame is fitted with Intermediate section

4. **Clamps**

2 big and 2 small clamps

INSTALLATION PROCEDURE

Stap 1 – Gathering tools on a floor

Gather Intermediate section with frame, clamps and chute section with chain on each floor. Each floor need one intermediate section with chain, 3 chute section and 2 big and 2 small clamps 20 nos Ground threaded bold of M16 x 100 mm. (Hilti concrete fixing or similar)

Step 2 – Fixing frame fitted Intermediate section fitting

Install a chain on fixing frame right side and another one left side with the help of Caribbean clip

Hold Intermediate fixing frame with help of two helper when Plastic intermediate body laying down from concrete floor edge

Make hole on concrete floor according to Big clamp and Small clamp hole size.

Pipe of Intermediate fixing frame should be hold by clamps and fitted with M16 x 100 mm bolt.

Step 3 – Chute fitting

Install the chain on D-bracket of every chute section

With the help of crane one helper can assemble chute section along with chain to each other Caribbean clip is easy to connect on D bracket of chute section one by one.

Step 4 – Alignment

It is imperative that the Chute and all its sections are installed perfectly vertical above each section. There should be no curves or bends and no place where impact from debris can occur. The chute should have clean discharge at the base into Skip. The Skip should be

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maintained to prevent pyramid build up of waste.

PERSON RESPONSIBLE FOR THIS DATA SHEET: Production Manager in Sturdy Products UAE Ltd
LATEST ISO REVISION DATE: 18-07-2016

Appendix 2

RISK ASSESSMENT PROCEDURE FOR WASTE CHUTES

1.0 Procedure

The purpose of this procedure is to ensure that any Waste Chutes which, are used by your company on their sites for the discharge of small waste from buildings under construction are fit for the purpose intended. This applies whether they are new Waste Chutes or chutes that have been moved from site and are to be again used in a new location.

2.0 Scope

This applies to all Waste Chutes. This applies to all Site Managers and Area Managers. It also applies to site operatives and all users of Waste Chutes and to fitters responsible for inspection and repair of Waste Chutes.

3.0 Related Documents

a) Performance requirements and test methods for waste chutes (copy attached)
b) SPUAEL ISO extract Data sheet QP 09 Appendix 6.1

4.0 Definitions

Waste Chute: Implies Debris Chute and vice versa.
Body: Implies the plastic body into which the waste is deposited or passes through.
Frame: Implies the steel frame onto which the plastic body is attached.

5.0 Level of Risk

The level of risk is low for this product provided that Waste Chutes that are used are in compliance with the above standard and have been independently tested and certified to this standard. It should be noted that in order to pass testing of Waste Chutes the safety factor is 200%. This ensures that should any minor damage occur to the product it will still be fit for the purpose intended.

6.0 Control Method

a) New Waste Chutes. Provided Waste Chutes that are used by your company

b) Are manufactured to the above standard and have been tested to 200% safety margin. This will ensure that the product is fit for the purpose intended. This applies regardless of the fixing method used (Concrete floor or Scaffolding)

c) Waste Chutes that are reused on building sites provided a risk assessment procedure is completed in accordance with no. 8 below. This will ensure that Waste Chutes that are reissued to the site are fit for the purpose intended.

7.0 Notes

Item 1

It should be noted that the Health & Safety authority in the UK have verified that Waste Chutes are not regarded as lifting devices as such each and every chute does not need to be tested and certified. However, they concur that it is good practice that there should be type testing applied to this product. This means that on a regular basis a sample chute should be tested in accordance with the standard to ensure that it is fit for the purpose intended. They also recommend that manufacturing of these tubs should be only carried out by companies that have a recognized quality assurance system such as ISO 9002 in place.

Item 2

To ensure minimal risk from failure of a component of Chute a 200% safety margin is applied at testing stage.

8.0 Risk Assessment Procedure

Risk assessment should be carried out by an appointed individual in each site who will have overall responsibility to ensure that product to be reissued is adequate and fit for the purpose intended. Risk assessment is carried our under 3 headings.

8.1

a) Frame:

1. Examine all rivets, bolts and washers to ensure that they are tight and properly fixed to the body and the frame.
2. Examine all of frame to ensure that welds are secure and that there is no damage or ware.
3. Examine the frame itself to ensure that it is straight and free from any bends due to excessive loading.
4. Examine the frame to ensure that it is free from any cuts or abrasions in the steel work.

b) Chute Body work:

1. Examine the body and where brackets are attached to ensure it is sound and has not been damaged.
2. Check that there are no tears about the rivets that could weaken the body.
3. Check the body to ensure that there are no severe abrasions or cuts in the body of the Chute that could render if likely to tear or failure in subsequent use i.e. no cuts or tears should protrude through the body itself.

c) Debris:

1. Check entire Chute to ensure that it is free from excess debris both in and around the frame and the inside of the unit.
2. Check also that the base of the Top and Intermediate section is free from excess debris that could affect the entry of waste into the chute in subsequent use.

9.0 Repair and Replacing Method

1. Repair

Depending on the severity of the damage Waste Chutes may be repaired and reissued for use with the following procedures;

a. Rivets. If rivets, bolts or washers are damaged they should be drilled out and replaced with new ones to the same specification as defined above. Existing holes in the frame should be reused and no holes should be drilled. If this is not possible the Chute or frame should be discarded and scrapped.

b. Check that the Top and Intermediate sections are in working order and free from defect. This can be examined visually. If excess debris is around the base this can be cleaned off by shot blasting or wire

brushing. If the frame is damaged or any of the welds are suspect the frame should be discarded and scrapped.

c. Frame damage. If the frame has been damaged to such an extent that a new chute section could not be fitted then this frame should be discarded. If the damage is slight and a new body can be attached it may be reused. If the frame has bent by more than 10°from the level position it should be discarded.

d. Body. If any part of the body is severely damaged it should be removed from the frame and replaced with a new body. Minor cuts and abrasions are acceptable.

Excessive Debris

Excessive Debris should be removed by wire brushing or shot blasting from the frame. If there is excessive debris in the base of the entry chute it should be gently removed by tapping and the unit then can be steam cleaned prior to reissue.

IF IN DOUBT DO NOT RE-USE.

IF THE DAMAGE IS MARGINAL AND YOU ARE UNSURE AS TO WHETHER THE WASTE CHUTE OR COMPONENT SHOULD BE SCRAPPED THIS CAN BE SET ASIDE AND RETURNED TO AREA OFFICE BASE WHERE IT CAN BE STORED AND RETURNED TO THE MANUFACTURER FOR ASSESSMENT / REPAIR.

10.0 ***Dated & Signed***

This document should be dated and signed by a person responsible for issue. It should then be signed and a copy kept by the person to whom it is issued. A copy should be kept in the master file of recipients who have been issued with this document and also a master copy of the most up to date risk assessment.

a) Issue by: Date:

b) Received by: Date:

c) Filed in file no: Stored at:

Builder's Waste chutes

Performance and installation instructions of Sturdy Products Builders Chutes

The Sturdy Products Chute system is manufactured to the highest standards and from chosen materials to give you our customers a quality product. However it should be noted that the Sturdy chute as with other systems are designed and tested for waste disposal from buildings up to 5 storey's high or maximum height of 20 Meters. While many contractors use this system to greater heights the product is not tested above 20 Meters. **Note:** a 1 Kg stone dropped from 20M will result in an impact load of 2 Ton if it impacted directly on a 10cm2 area of the chute. As such chutes should be installed in a straight vertical position, at all times.

If the chute system is not installed straight and vertical, this will cause debris to "bounce" from side to side when descending through the chute and will cause fracture of some chute sections. It is important that the intermediate sections are positioned directly above the opening in the lower sections. At the bottom of the chute system it should discharge vertically into the skip. If a "Bend" is created the waste will impact on the bottom sections and cause fracture.

For security and safety reasons the Sturdy Builders Chute should only be installed using the correct frame and brackets supplied with our system. Only a competent installer should undertake the installation of the chute system.

The Materials chosen, to manufacture this Chute system have been tested and certified to ensure your safety and satisfaction, please insist on receiving a copy of certification from your supplier.

X INCORRECT FITTING

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