



HRS Roofing Solutions (Pty) Ltd

SARS VAT Reg. No: 4330281256

Registered Asbestos Contractor #

OHH/RAC2019/CI-128

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**EXAMPLE OF COMPULSORY DEPT. OF LABOUR
NOTIFICATION TO BE SENT 14 DAYS PRIOR TO START
OF ASBESTOS DEMOLITION**

**PLAN OF WORK FOR THE DEMOLITION OF ASBESTOS
CONTAINING MATERIAL (ACM):
HRS ROOFING SOLUTIONS (PTY) LTD
RAC2019/OHH/CI-128**

19TH FEBRUARY 2020 – 31ST MARCH 2020

1. DETAILS OF CONTRACTOR RESPONSIBLE FOR DEMOLITION OF ACM

Name of Company: HRS Roofing Solutions (Pty) Ltd
Responsible Person: Adam Hendricks
Contact Number: 081 323 1112

2. DETAILS OF RESPONSIBLE PERSONS

Client:
Project Controller: Adam Hendricks – 081 323 1112

3. PHYSICAL ADDRESS WHERE ACM DEMOLITION WILL TAKE PLACE

Cape Town
Cape Town

4. DETAILS OF APPROVED INSPECTION AUTHORITY (AIA)

Name of AIA:
Address of AIA:
Contact Person:
Contact Number:

5. SPECIFIC LOCATION OF ACM DEMOLITION

Plant / Department: Main House
Specific Area: Big Six roof sheets and gutters

REF : PRO

SIGN :

DATE:

6. TYPE AND AMOUNT OF ACM TO BE STRIPPED/SCOPE OF WORK

The form of asbestos to be safely removed is in the form of asbestos Big Six roof sheets and gutters. The total amount of asbestos containing material is approximately, 350m² that will be removed on site.

The total amount of asbestos containing Big Six roof sheets and gutters that will be removed is 350m². The asbestos containing material will be kept damped at all times, so as to ensure that there are no airborne asbestos fibres created during this asbestos removal project.

The asbestos waste is classified asbestos Hazardous Waste in the form of asbestos containing Big Six roof sheets and gutters.

LEGAL AND ADMINISTRATIVE REQUIREMENTS

- **The asbestos regulations** of 2001 of the Occupational Health and Safety Act, Act 85 of 1993
- **HSG 248:** Asbestos: Analysts guide for sampling, analysis and clearance procedures.

DEFINITIONS

- **Exposed to asbestos** – Means exposed to or likely to be exposed to asbestos dust while at the work place, and exposure has a corresponding meaning.
- **Monitoring** – Means the planning and carrying out of a measurement programme and recording the results thereof.
- **Occupational exposure limit OEL** – means a limit set by the minister for stress factor at the work place.
- **OESSM** – means the Occupational exposure strategy sampling manual, published by the National institute for Occupational Safety and Health (NIOSH), United States of America: Department of Health education and welfare.
- **Occupational exposure limit for asbestos** – Means an occupational exposure limit of 0,2 regulated asbestos fibres per milliliter of air averaged over any continuous period of 4 hours measured in accordance with HSG 248.

REF : PRO

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- **Registered asbestos contractor** – means a mandatory or employer conducting demolition work, who is registered with the chief inspector.
- **Regulated asbestos fibre** – means a particle of asbestos with a length to diameter ratio of greater than 3 to 1, with a length more than 5 micrometers and a diameter less than 3 micrometers.
- **Respiratory protective equipment** – means a device which is worn over at least the nose and mouth to prevent the inhalation of air that is not safe, and which device conforms to a standard approved by the minister.
- **Short term exposure limit** – means the concentration to which a worker can be exposed continuously for a short period of time, which is 10 minutes TWA exposure for asbestos, which should not be exceeded at any time during the working day even if the 4 hr TWA is within the OEL-TWA.
- **Short term exposure limit for asbestos** – means an exposure limit of 0, 6 regulated fibres of asbestos per millilitre of air averaged over any 10 minutes.
- **Asbestos Dust** - airborne or settled dust, which contains or is likely to contain regulated asbestos fibres.
- **Approved Inspection Authority (AIA)** – A company or person who has been certified by the Department of Labour in terms of the Occupational Health and Safety Act.1993 for the monitoring of physical stress factors, chemical stress factors (including Lead and Asbestos) and ventilation systems.

7. REPORTING STRUCTURE AND PROCEDURES/RESPONSIBLE PARTIES

The Approved Inspection Authority is the responsible party for the asbestos in air monitoring and shall be on site on the following intervals, so as to carry out asbestos in air monitoring:

In terms of SANAS, the confidentiality clause allows the AIA to only to submit the above results and final report to our client namely HRS Roofing Solutions (Pty) Ltd. Our client is allowed to send the results and final report to their main client.

REF : PRO

DATE:

SIGN :

HRS Roofing Solutions (Pty) Ltd is the registered asbestos contractor (RAC) responsible for the removal of the asbestos containing Big Six roof sheets and gutters from the site. See attached certification.

8. WORK SCHEDULE/SCHEDULED COMMENCEMENT AND COMPLETION DATES

The project of removing the asbestos containing material will commence on 19th February 2020 and shall be completed on or before 31st March 2020.

On the start of the project estimated to be on 19th February 2020.

Clearance monitoring / inspection on completion of the project estimated on the 31st March 2020.

9. DEMOLITION SITE PREPARATION AND WORK METHODS/ LOCALITY AND DESCRIPTION OF REMOVAL PROCEDURE.

- The building is located in..... Cape Town.
- The “asbestos work area” shall be identified and demarcated with black and yellow chevron tape to prohibit the entry of unauthorized persons. Prior to the commencement of work, work instructions detailing precautions to be taken, hazards involved with asbestos and protective clothing to be worn, must be issued. The asbestos fibres will be kept damped at all times so as to prevent any possible fibres from becoming airborne.
- Prior to the removal taking place, the site must either be cleared of the contents or alternatively, the contents covered with impermeable plastic prior to the asbestos Big Six roof sheets and gutters being removed.
- The Big Six roof sheets and gutters shall be removed with minimal breakages taking place. It will be lowered onto impermeable plastic sheeting on the ground and then onto an asbestos waste transporter. The broken pieces will be damped sprayed and placed into double bags, labeled with the “A” sticker. It is imperative that the asbestos containing material are being kept damped at all times. If the asbestos material break at any point, the broken pieces must be double bagged and must be marked as asbestos waste. This must be disposed of as asbestos waste.

REF : PRO

DATE:

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- At the end of each day, the area where the Big Six roof sheets and gutters were removed must be vacuum with a vacuum cleaner with a Hepa filter with an efficiency of at least 99.9% to ensure the area is clear of any asbestos debris and any possible asbestos fibers.
- On completion, clearance asbestos in air monitoring will be carried out.
- Mandatory PPE is to be worn by all workers removing asbestos products.
- If there is any run off water, a filter must be placed into the down pipes in order to prevent asbestos from entering the water systems. The removed sheets must be covered with impermeable plastic sheeting to prevent asbestos dust from being released once on the ground or during transportation.
- Ensure that the employees are made aware of the health hazards associated with asbestos dust. Training of workers in this regard is required. Proof of training to be provided.

10. CONTROL OF EMPLOYEE EXPOSURE

12.1 Establishment of respirator zone

All areas inside the chevron tape will be declared a respirator zone/asbestos demolition area. Entrance into this area will be restricted to authorized personal only. The RAC supervisor must ensure that that no unauthorized persons enter this area during the asbestos removal project.

12.2 Safety notices to be displayed at the ACM demolition area (Refer to Appendix A)

Warning notices shall be displayed at conspicuous places prohibiting the entry of unauthorized persons into the respirator zone/asbestos area and stating that this is an asbestos work area. No unauthorized entry will be allowed into this area i.e. only the RAC and the AAIA are allowed into this area. The RAC Supervisor to implement/control this.

12.3 Means of controlling asbestos dust

Water will be used at all times to ensure that asbestos fibres are kept damp.

12.4 Means of containing run-off effluents

There should be no run-off effluent from this project. During the AAIA's site visit, an assessment will be made of possible soil contamination.

12.5 Change facilities / Shower area

REF : PRO

SIGN :

DATE:

Separate washing facilities will be provided on the site. The workers will decontaminate themselves before leaving the asbestos area. This will prevent potential exposure of asbestos to the surrounding environment. An asbestos washing register must be kept, which states that the RAC employee decontaminated prior to leaving the asbestos area after washing.

The RAC supervisor is to keep this register where both the RAC employee as well as the RAC supervisor sign, each time the RAC employee leaves the Asbestos area. Method of stripping ACM

See attached *ASBESTOS WORK PROCEDURES AND SPECIFICATIONS*.

12.6 Personal Protective Equipment

Contractors involved in the demolition of ACM, shall wear appropriate protective equipment as mutually agreed by the contractor, AIA and department of Labour.

Mandatory PPE:

Minimum RPF Respirators (FFP 2) which are approved by the DOL (CI number)

Disposable overalls

Safety boots (please note that it is preferred have safety shoes that DO NOT HAVE LACES)

Hard hat

Gloves

Spectacles/ goggles / face shield

11. AUTHORISATION HOLD POINTS

13.1 Pre-work approval

Prior to the demolition work of the asbestos containing material the asbestos removal contractor namely, HRS Roofing Solutions (Pty) Ltd needs to receive acceptance from the AAIA, namely Occupational Hygiene Monitoring Services (Pty) Ltd prior to the removal process taking place.

13.2 Completion of work check

On completion of the removal that has taken place, the contractor shall be required to obtain approval, AAIA, before leaving site. This will be based on the site inspection on completion of the project to ensure that all asbestos Big Six roof sheets and gutters have been removed as per the specification.

REF : PRO

SIGN :

DATE:

14. MEASUREMENT OF EXPOSURE/ASBESTOS IN AIR MONITORING AND SITE CLEARANCE

Air monitoring will be conducted by a registered AAIA as discussed in section 8. Clearance of the area will be obtained by the AAIA on completion of the removal on site. This shall take place on the completion of the project.

15. EDUCATION AND TRAINING OF RAC EMPLOYEES

The contractor shall be required to provide suitable training to all employees involved in ACM demolition work. Such training shall include the contents of the Asbestos Regulations 2001(OHS Act), the potential danger to their health from exposure to asbestos, the risks associated with the exposure to asbestos coupled with smoking, the precautions to be taken to protect themselves against asbestos fibres and the correct use and care of PPE. A record shall be kept by the contractor of all training provided. Refresher training shall be given at least every year.

16. PROCEDURE FOR THE COLLECTION AND DISPOSAL OF ACM

16.1 Bagging of ACM waste

All waste material containing asbestos, while in storage or being transported, shall be kept in closed receptacles. The strength and type of receptacle shall be determined by the AAIA.

16.2 Labeling of ACM waste

The receptacles as per 12.1 shall be labeled individually to indicate the contents thereof. Refer to Appendix A. The labeling must be carried out in accordance with SANS 10228.

16.3 Transportation of ACM waste

When transporting the ACM to a classified landfill site, the receptacles shall be held in a totally enclosed system of conveyance. The contractor shall be required to ensure that ACM waste is disposed of at a landfill site designated for this purpose in terms of the Environmental Conservation Act, and shall keep the waste disposal certificates on record.

The transportation must be carried out in accordance with SANS 10229.

17. MEDICAL SURVEILLANCE

The contractor shall be required to provide, free of charge to his/her employees, a pre-work asbestos medical examination by an occupational medical practitioner. Asbestos medical shall be kept by the contractor. Medical surveillance to be done at intervals not exceeding two years or at shorter intervals specified by an occupational medical practitioner.

REF : PRO

DATE:

SIGN :

18. FIRST AID AND EMERGENCIES

A qualified first aider shall be on site at all times. All possible emergencies have been addressed within the risk assessment.

19. DEPARTMENT OF LABOUR NOTIFICATION

The AAIA hereby gives notice to the DOL of the intention to remove the asbestos containing material at the site as referenced in this plan.

20. LIST OF EQUIPMENT TO BE USED:

HRS Roofing Solutions (Pty) Ltd shall provide the client with a list of equipment to be used.

21. APPROVALS.

APPROVED INSPECTION AUTHORITY

DATE

CLIENT

DATE

ASBESTOS REGISTERED CONTRACTOR
HRS Roofing Solutions (Pty) Ltd

DATE