CALDERDALE METROPOLITAN BOROUGH COUNCIL

THE POLLUTION PREVENTION AND CONTROL ACT 1999

ENVIRONMENTAL PERMITTING (ENGLAND AND WALES) REGULATIONS 2010 AS AMENDED

Permit reference: EPR/93

Name and address of person (A) authorised to operate the installation ('the operator')

Marshalls Mono Ltd
Landscape House
Lowfields Business Park
Elland
HX5 9HT

Registered number and office of company (if appropriate) **00509579**

Address of permitted installation (B)

Marshalls Mono Ltd
Brookfoot Works
Southowram
HALIFAX
HX3 9SY

The installation boundary and key items of equipment mentioned in permit conditions are shown in the plan attached to this permit. The permitted plant is listed in Table 2.

Activity description

Aggregates are delivered to site and stored within the aggregate bays marked on DRG E18664, 3 open, 9 roofed and 1 sealed.

Cementitious material is pumped directly from the delivery vehicles into silos A through to H shown on DRG E18664. All Silos are fitted with reverse air jet filtration, and both audible and visual high level alarms.

Colour is delivered and stored in sealed bags in an enclosed building.

Aggregates are transferred to feed hoppers by means of a loading shovel and then conveyed to housed storage bunkers in Press Department 1 and Press Department 2 via conveyor belts. Both transfer systems have Local Exhaust Ventilation, Press department 1's are located internally and also externally marked PD1/LEV001 on DRG 18664, Press Department 2's are located internally only. The cement is transferred from the silos to both Press Departments by sealed rotary screw. Colour is delivered by either a dry batching system directly into the aggregate in both Press departments or mixed with water and

delivered by 2 encased wet systems that batch directly to individual concrete mixers.

The sand, aggregate, cement and colour are dispensed into mixers and water is added to make wet concrete. The concrete is then dispensed into presses and pressed into concrete flags. The products are stored in the Press departments to cure, which are heated by a gas fired heating system, before being sent for secondary processing.

Polished products are produced in the building marked Polishing and Polisher 4. Water suppression and Local Exhaust Ventilation, marked POL/LEV002, 004, 005 and 006 is used to minimise airborne dust.

Textured product is produced in the Saxon/Cropping area, and additionally in Press Department 2, on 5 machines each fitted with separate Local Exhaust ventilation marked Blast/LEV001, 002,003, 004 and PD2/LEV01. Cropped and Pitched product is also produced in the Saxon/Cropping area, internal Local Exhaust Ventilation and external Local Exhaust Ventilation, Crop/LEV001 and 002 is used to minimise airborne dust.

Dust collected from BLAST/LEV001, 002 & 003 is transported via enclosed conveyor and enclosed rotary screw feed to POD/003. Dust collected from BLAST/LEV004 is transported to POD/004 via enclosed rotary screw feed. Both POD/003 & POD/004 transport dust via sealed pipe work to SILO M. Dust collected from POL/LEV005 & 006 is transported to SILO L via enclosed rotary screw feed.

Dust is transferred from SILO M and/or SILO L to a bulk powder transport wagon; this is used to dispense dust to SILO N which feeds POD/001 via sealed rotary screw. POD/001 transports the dust to SILO K via sealed pipe work, which in turn dispenses dust into the sealed aggregate bay via sealed rotary screw. Alternatively the Bulk powder transport wagon can dispense dust from SILO M and/or SILO L directly into SILO N. The dust collected at PD2/LEV010 is transported via sealed rotary screw to POD/002, this transports dust via sealed pipe work to SILO N also. SILO N dispenses dust directly to various mixers via enclosed rotary screw.

BLAST/LEV001, 002, 003 & 004, POL/LEV005 & 006 and PD2/LEV010 have the capacity to dispense dust into sealed dust hoppers in the event that the dust transport system can not be used. All other LEV systems dispense directly into sealed bins, bags or back into the process.

None recyclable dust and spillage etc is collected in the remediation area and mixed with water to prevent airborne dust and sent off site for remediation. Reject product is stored in the reject product bays and transported via loading shovel and dump truck to Marshalls natural stone site (geographically on the same site but run as a separate Marshalls business to Brookfoot), where it is crushed and used as road fill.

The operator (**A**) is authorised to operate the activity[1] at the installation (**B**) subject to the following conditions.

Signed ..... Date .....
Head of Housing, Environment and Renewal

[1] listed in Section 3.5 in Part 2 of Schedule 1 to the Environmental Permitting Regulations

Conditions

Emissions and monitoring

1. No visible particulate matter shall be emitted beyond the installation boundary.

2. The emission requirements and methods and frequency of monitoring set out in Table 1 shall be complied with. Sampling shall be representative.

   Corrective action shall be taken immediately if any periodic monitoring result exceeds a limit in Table 1, or if there is a malfunction or breakdown of any equipment which might increase emissions. Monitoring shall be undertaken or repeated as soon as possible thereafter and a brief record shall be kept of the main actions taken.

3. All plant and equipment capable of causing, or preventing, emissions and all monitoring devices shall be calibrated and maintained in accordance with the manufacturer's instructions. Records shall be kept of such maintenance.

Silos

4. Bulk cement shall be stored only in the silos marked A to H on drawing DRG E18664. Bulk recycled dust shall be stored only in the silos marked J, K, L, M and N on drawing DRG E18664.

5. Dust emissions from loading or unloading road tankers shall be minimised by backventing to a delivery tanker fitted with an on-board, truck-mounted relief valve and filtration system and by connecting transfer lines first to the delivery inlet point and then to the tanker discharge point, and by ensuring delivery is at a rate which does not pressurise the silo.

6. Silos and bulk containers of dusty materials shall not be overfilled and there shall be an overfilling alarm.

7. When loading silos which were new after Jun 2004, deliveries must automatically stop where overfilling or over-pressurisation is identified.

8. Displaced air from pneumatic transfer shall pass through abatement plant prior to emission to air.

Aggregates delivery and storage

9. Sand, limestone and aggregated shall be kept in the storage bunkers provided for that purpose, marked AGG bays on DRG E18664. The sand, limestone and aggregates shall be kept in a dampened and/or covered condition to prevent airborne dust emissions.

Belt conveying

10. All dusty materials, including wastes, shall be conveyed using covered conveyors or sealed rotary screws.

Loading, unloading and transport

11. No potentially dusty materials (including wastes) or finished products shall arrive on or leave the site other than by use of suitably enclosed vehicles.

Roadways and transportation

12. All areas where there is regular movement of vehicles shall have a consolidated surface capable of being cleaned, and these surfaces shall be kept clean and in good repair.

13. Vehicles shall not track material from the site onto the highway.

Techniques to control fugitive emissions

14. The fabric of process buildings shall be maintained so as to minimise visible dust emissions.

Records and training

15. Written or computer records of all tests and monitoring shall be kept by the operator for at least 12 months. They shall be made available for examination by the Council. Records shall be kept of operator inspections, including those for visible emissions.

16. Staff at all levels shall receive the necessary training and instruction to enable them to comply with the conditions of this permit. Records shall be kept of relevant training undertaken.

End of permit conditions

Table 1 - Emission limits, monitoring and related provisions

Row	Substance	Source	Emission limits/provisions	Type of monitoring	Monitoring frequency
1	Particulate matter	Whole Process	No visible airborne emission to cross the site boundary where harm or nuisance may be caused	Operator observations	At least daily
		Silo inlets and outlets (*for silos new since 1st July 2004)*	Designed to emit less than 10mg/m^3	Operator observations	At time of delivery
		Silo inlets and outlets	No visible emission		
		Arrestment equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow >300m^3/min. (other than silo arrestment plant)	50mg/m^3	Recorded indicative monitoring	Continuous
			Greyed out rows not applicable	*Isokinetic sampling	At least once to demonstrate compliance, then as necessary to provide a reference for the continuous indicative monitor.
		Arrestment equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow >100m3/min. (other than silo arrestment plant)	No visible emission Arrestment equipment should be provided with a design guarantee that the equipment can meet 50mg/m^3	Indicative (pressure-drop) monitoring and visual observations	Continuous daily
		Arrestment equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow <100m^3/min. (other than silo arrestment plant)	No visible emission	Operator observation Or Indicative monitoring	At least daily Or Continuous
2	Droplets, persistent mist and fume	All emissions to air (except steam and condensed water vapour)	No droplets, no persistent mist, no persistent fume.	Visual observations	*On start-up and on at least two more occasions during the working day*

Only emissions to atmosphere are required to comply with the emission limits within this table.

Notes:

All periodic monitoring results shall be checked by the operator on receipt and sent to the Council within 8 weeks of the monitoring being undertaken.

a) The reference conditions for limits in Table 1 are: 273.1K, 101.3kPa, without correction for water vapour content, unless stated otherwise.

b) All periodic monitoring shall be representative, and shall use standard methods.

c) The emission limits do not apply during start-up and shut down. All emissions shall be kept to a minimum during these periods.

Table 2: List of permitted plant

LEV reference number	Location	Services
PD1/LEV001	PD1, outside at the end of the batching plant.	Mixer 3, weigh bins 1, 2, 3 & 4.
PD2/LEV010	Outside Blaster 5	Blaster 5
POL/LEV002	Outside Polisher 1	Dry from Polisher 1 Chamfer.
POL/LEV003	Outside Polisher 2	Dry from Polisher 2
POL/LEV004	Outside Polisher 3	Dry from Polisher 3
POL/LEV005	Outside Polisher 4 (larger LEV)	Calibration heads 1, 2 & 3 + Dry grinding head 1.
POL/LEV006	Outside Polisher 4 (Smaller LEV)	Calibration head 4
CROP/LEV002	Outside Auto pitcher	Auto pitcher
CROP/LEV004	Outside Cropper 3.	Cropper 3 crop and pitch.
BLAST/LEV001	Outside Blasting	Shot Blaster 1
BLAST/LEV002	Outside Blasting	Shot Blaster 2
BLAST/LEV003	Outside Blasting	Shot Blaster 3
BLAST/LEV004	Outside behind Blaster 4	Shot Blaster 4
SILO/LEV001	Silo A	Mixer 1 & 2
SILO/LEV002	Silo B	Mixer 3
SILO/LEV003	Silo C	Mixer 6
SILO/LEV004	Silo D	Mixer 7
SILO/LEV005	Silo E	Mixer 8
SILO/LEV006	Silo F	Mixer 9
SILO/LEV007	Silo G	Mixer 10
SILO/LEV008	Silo H	Mixer 11
SILO/LEV009	Silo J	Aggregate yard dust system
SILO/LEV010	Silo K (inside sand shed)	Aggregate yard dust system
SILO/LEV011	Silo L	Polisher 4 dust system
SILO/LEV012	Silo M	Blasting dust system
SILO/LEV013	Silo N	9 & 10 dust system
POD/001 (previously N)	At the end of the aggregat shed	Dust from Silo J to Silo K
POD/002 (previously P)	Outside Blaster 5	Dust from Blaster 5 to Silo N
POD/003 (previously Q)	Adjacent to Shot blasting extraction	Dust from Blasters 1, 2 & 3 to Silo M.
POD/004 (previously R)	Outside Blaster 4	Dust from Blaster 4 to Silo M

Notes

1. The following two conditions are implied in permits issued on or after 6 April 2008 by virtue of regulation 69(6) of the 2007 Regulations and regulation 108(4) of the 2010 Regulations.

> The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation which is not regulated by any other condition of this permit.
>
> If the operator proposes to make a change in operation of the installation, he must, at least 14 days before making the change, notify the regulator in writing. The notification must contain a description of the proposed change in operation. It is not necessary to make such a notification if an application to vary this permit has been made and the application contains a description of the proposed change. In this condition 'change in operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.

2. You will be liable for prosecution if you fail to comply with the conditions of this permit. If found guilty, the maximum penalty for each offence if prosecuted in a Magistrates Court is £50,000 and/or 6 months imprisonment. In a Crown Court it is an unlimited fine and/or 5 years imprisonment.

3. Our enforcement of your permit will be in accordance with the Regulators' Compliance Code.

4. This Permit is given in relation to the requirements of the Environmental Permitting Regulations. It must not be taken to replace any responsibilities you may have under workplace Health and Safety Regulations.

5. This Permit does not detract from any other statutory requirement, such as the need to obtain planning permission, building regulation approval, hazardous substances consent, discharge consents, waste disposal licences or any licence or consent from the Environment Agency.

6. The annual subsistence fee is due on 1 April each year. Failure to pay the fee will lead to revocation of the Permit.

7. If the operator intends to close down the installation a written application must be made to the Council to surrender this permit. There is provision for payment of a reduced subsistence fee in the event that an installation is mothballed or operates at reduced capacity.

8. Application forms for transferring, varying and surrendering this permit are available from the Council's website www.calderdale.gov.uk

Contacting Calderdale Council

All enquiries and notifications made in relation to this Permit should be made to:

Calderdale Metropolitan Borough Council
Environmental Services Department
Northgate House
Halifax
HX1 1UN

Tel: 01422 392379 or 01422 288001

Fax: 01422 392399

Email: environmental.health@calderdale.gov.uk

Outside office hours Incidents occurring outside office hours should be reported on the next working day unless otherwise directed within the Permit or there is an imminent risk to health which shall be reported immediately by telephoning 01422 288000 and asking for the Out of Hours Officer.