1. PERMITTEE

Building Materials Manufacturing Corp.
5138 Madison Ave.
Tampa, FL 33619

2. PERMITTING AUTHORITY

Environmental Protection Commission of Hillsborough County (EPCHC)
3629 Queen Palm Dr.
Tampa, FL 33619

3. PROJECT

Air Permit No. 0570056-040-AC
Minor Air Construction Permit
Building Materials Manufacturing Corp.

This permit authorizes the after-the-fact construction of a 24,000 ACFM Airclear Fiberbed Coalescing System. This system controls fumes and particulate matter emissions from the Asphalt Mat Coater (EU No. 001).

4. NOTICE AND PUBLICATION

The EPCHC distributed a revised draft minor air construction permit package on March 23, 2017. The applicant published the Public Notice in La Gaceta on April 14, 2017. The EPCHC received the proof of publication on April 14, 2017. No requests for administrative hearings or requests for extensions of time to file a petition for administrative hearing were received.

5. COMMENTS

No comments on the Revised Draft Permit were received from the public or the applicant.

6. CONCLUSION

The action of the EPCHC is to issue the permit as drafted.

COMMISSION

Victor D. Crist
Ken Hagan
Al Higginbotham
Pat Kemp
Lesley "Les" Miller, Jr.
Sandra L. Murman
Stacy White

EXECUTIVE DIRECTOR
Janet L. Dougherty

DIVISION DIRECTORS

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Air Management — Jerry Campbell, P.E.
Waste Management — Hooshang Boostani, P.E.
Water Management — Sam Elrabi, P.E.
Wetlands Management — Kelly Bishop, P.G.

PERMITTEE

Building Materials Manufacturing Corp.
5138 Madison Ave.
Tampa, FL 33619

Authorized Representative:
Craig Best, Plant Manager

Air Permit No.0570056-040-AC
Permit Expires: September 3, 2017

Minor Air Construction Permit
After-the-Fact Construction for the Asphalt Mat Coater Control Device

PROJECT

This is the final air construction permit, which authorizes the after-the-fact construction of a 24,000 ACFM Airclear Fiberbed Coalescing System to control fumes and particulate matter emissions from the Asphalt Mat Coater. The proposed work will be conducted at the existing facility, which is an asphalt roofing shingle manufacturing operation and is categorized under Standard Industrial Classification Code No. 2952 – Asphalt Felts and Coating. The existing facility is located in Hillsborough County at5138 Madison Ave., Tampa, FL 33619. The UTM coordinates of the facility are 17, 362.5 km East, and 3087.1 km North.

This permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Executed in Tampa, Florida.

ENVIRONMENTAL PROTECTION
COMMISSION OF HILLSBOROUGH COUNTY

Janet L. Dougherty
Executive Director

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Permit and Final Determination) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested, or was sent via mail, before the close of business on the date indicated below to the following persons.

Alex Lim – Building Materials Manufacturing Corp. alim@gaf.com
Cory A. Houchin, P.E. – Environmental Sciences Group, Inc. HouchinC@environmentalsciencesgroup.com

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

Clerk _____ Date 5/1/2017

FACILITY DESCRIPTION

The existing facility consists of the following emissions units.

Facility ID No. 0570056	
ID No.	**Emission Unit Description**
001	Asphalt Mat Coater

Building Materials Manufacturing Corp. manufactures asphalt roofing shingles. This permit authorizes the after-the-fact construction of a 24,000 ACFM Airclear, Model No. 38208J2, Fiberbed Coalescing System. This system controls fumes and particulate matter emissions from the Asphalt Mat Coater (EU No. 001).

The asphalt roofing shingles are manufactured by applying an asphalt coating mixture to a fiberglass mat in the Asphalt Mat Coater (EU No. 001). The process begins by pumping asphalt coating from storage tanks into the manufacturing building. The coating is then mixed with limestone, using agitator blades, in a closed, horizontal mix tank that is 30" in diameter and 7 feet in length and heated by a hot oil system. In addition, a circulating asphalt heater (coating loop heater) re-circulates the asphalt coating mixture to ensure that the mixture has the required viscosity.

A fiberglass mat is fed to the Asphalt Mat Coater, where it is coated with the asphalt coating mixture by spreading the mixture evenly across the mat with two knives. Colored granules are applied to the face of the mat and sand is applied to the back. The granulated mat is then cooled by moving it over rollers and is directed to either a shingle cutter or a pattern cutter. Two layers of mat are joined by a laminating resin in the pattern cutting section. The shingles are then wrapped and palletized for shipment.

PROPOSED PROJECT

This permit authorizes the after-the-fact construction of a 24,000 ACFM Airclear Fiberbed Coalescing System, to control fumes and particulate matter emissions from the Asphalt Mat Coater (EU No. 001).

This project will modify the following emission units:

EU No.	Description
001	Asphalt Mat Coater

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

FW1. Permitting Authority: The permitting authority for this project is the Environmental Protection Commission of Hillsborough County. The mailing address is 3629 Queen Palm Dr., Tampa, Florida 33619. All documents related to applications for permits to operate an emissions unit shall be submitted to the Environmental Protection Commission of Hillsborough County.

FW2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Dr., Tampa, Florida 33619.

FW3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); Appendix D (Common Testing Requirements); Appendix 40 CFR 60 Subpart A; Appendix 40 CFR 60 Subpart UU.

FW4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

FW5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the EPCHC may require the permittee to conform to new or additional conditions. The EPCHC shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the EPCHC may grant additional time. [Rule 62-4.080, F.A.C.]

FW6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rule 62-210.300(1), F.A.C.]

FW7. The permittee shall not store, handle, process, or use in any process the volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems as follows and as deemed necessary and ordered by the Environmental Protection Commission of Hillsborough County: [Rule 62-296.320(1), F.A.C.]

A) Maintain tightly fitting cover, lids, etc. on all containers when they are not being handled, tapped, etc.
B) Where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, etc. of VOC so that it can be covered when not in use.
C) Immediately attend to all spills/waste as appropriate

FW8. The use of property, facilities, equipment, processes, products, or compounds, or the commission of paint overspraying or any other act, that causes or materially contributes to a public nuisance is prohibited, pursuant to the Hillsborough County Environmental Protection Act, Section 16, Chapter 84-446, Laws of Florida, as Amended.

FW9. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading,

unloading, storing and handling. Reasonable precautions shall include, but not be limited to, the following: [Rule 62-296.320(4)(c), F.A.C.]

A) Paving or maintenance of roads, parking areas, and yards.
B) Application of water when necessary to control emissions.
C) Removal of particulate matter from roads and other paved areas under control of the owner or operator to prevent re-entrainment, and from buildings or work areas to prevent particulates from becoming airborne.
D) Proper operation and maintenance of the material transport and storage system.
E) Use of coverings or enclosures, as necessary.
F) Curtailing of operation if winds are entraining unconfined particulate matter.
G) Posting of vehicle (or truck) speed limits, if necessary.

FW10. When the Environmental Protection Commission of Hillsborough County (EPC) after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in Rules 62-204, 62-210, 62-212, 62-296, or 62-297, F.A.C., or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of pollutant emissions from the source and to provide a report on the results of said tests to the EPC. [Rule 62-297.310(8)(c), F.A.C.]

FW11. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]

FW12. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Air Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]

FW13. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided (1) best practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the EPCHC for longer duration. Excess emissions that are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C.]

FW14. In order to establish the facility as a synthetic minor source for Hazardous Air Pollutants (HAPs), the HAP, as defined in Rule 62-210.200, F.A.C., emissions shall be less than 10 tons in any 12 consecutive month period for any individual HAP, and less than 25 tons in any 12 consecutive month period for any combination of HAPs. [Rule 62-210.200, F.A.C.]

FW15. The facility wide maximum natural gas fuel usage shall not exceed 127 million cubic feet per twelve consecutive month period. [Rule 62-4.070(3), F.A.C. and Permit No. 0570056-006-AC]

FW16. The permittee must submit to the Environmental Protection Commission of Hillsborough County each calendar year, a completed DEP Form 62-210.900(5), "Annual Operating Report (AOR) for Air Pollutant Emitting Facility", for the preceding calendar year. The AOR shall be submitted by April 1 of the following year. [Rule 62-210.370(3), F.A.C.]

FW17. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]

A. EU No. 001 – Asphalt Mat Coater

This section of the permit addresses the following emissions units.

EU No.	Description
001	Asphalt Mat Coater

EQUIPMENT

A.1. Equipment Name: The permittee is authorized to install a 24,000 ACFM Airclear, Model No. 38208J2, Fiberbed Coalescing System. [Rule 62-4.070(3), F.A.C.; and Permit Application Received January 30, 2017]

PERFORMANCE RESTRICTIONS

A.2. Permitted Capacity: As requested by the permittee, the following limitations shall apply: [Rules 62-210.200(PTE) and 62-4.070(3), F.A.C., and Air Construction Permit Application Received January 30, 2017]

A) The maximum asphalt mat coating processing rate shall not exceed 35.3 tons per hour of asphalt/limestone mixture.
B) The maximum amount of asphalt shingles produced shall not exceed 424,000 tons of asphalt shingles per twelve consecutive month period.
C) The maximum temperature of the asphalt mixture shall not exceed 480° F, respectively, averaged daily.
D) The particulates from the asphalt coating process shall be vented to the fiberbed coalescing system specified in Specific Condition No. A.1.

A.3. In order to ensure compliance with Specific Condition Nos. A.2. and A.7., the following limitations shall apply: [Rule 62-4.070(3), F.A.C. and Air Construction Permit Application Received January 30, 2017]

A) The permittee shall calibrate and maintain a magnehelic gauge to measure the static pressure inside the inlet of the evacuation hood over the coating process.
B) The evacuation hood over the coating process shall be kept at a minimum static pressure of 0.1 inch of water at all times.
C) The hot asphalt delivery and return troughs shall be kept closed at all times, with the exception of open inspection ports located under the mat coater exhaust hood, and vapors from the mix shall not be allowed to escape into the building.
D) The permittee shall continuously monitor and record the temperature of the gas at the inlet of the control device and ensure that temperature monitoring instrument shall have an accuracy of ±15 °C (±25 °F) over its range, as specified by 40 CFR Subpart UU.
E) The permittee shall operate and maintain the measuring devices used for determining the air pressure differential (Delta P) across the fiberbed coalescing system, according to the manufacturers' manual. The pressure differential shall be recorded on a daily basis.

A.4. Hours of Operation: The hours of operation are not restricted. [Rule 62-4.070(3), F.A.C.]

EMISSIONS STANDARDS

A.5. The facility is subject to 40 CFR 60 – Subpart UU: Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture. The permittee shall comply with the following requirements: [Rule 62-204.800, F.A.C.; 40 CFR 60.7, 60.11, and 60.12; and 40 CFR 60.470]

A) The permittee shall furnish the EPC written notification as follows: [40 CFR 60.7(a)]

1) A notification of any physical or operational change to an existing facility which may increase the emissions rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an application subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emissions control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The epc may request additional relevant information subsequent to this notice. [40 CFR 60.7 (a)(4)]

B) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]

C) The permittee shall maintain a file of all measurements, including performance testing measurements and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records. Visible emissions test results are required to be maintained on-site for five years. [40 CFR 60.7(f)]

D) Compliance with opacity standards shall be determined by conducting observations in accordance with Reference Method 9 in Appendix A (40 CFR 60). [40 CFR 60.11(b)]

E) The opacity standards set forth in this permit shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. [40 CFR 60.11(c)]

F) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the EPC which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]

G) No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12]

A.6. As requested by the permittee, the particulate matter emissions shall not exceed the following. [Rule 62-296.700, F.A.C.; 40 CFR 60.472; Chapter 1-3.52 Rules of the EPC; and Air Construction Permit Application Received January 30, 2017]

lb/ton of asphalt shingles produced	ton/yr	Opacity
0.06	12.7	5%

{Permitting note: By meeting the PM standard of 0.06 lb/ton, the Asphalt Mat Coater will meet the PM standard of 0.08 lb/ton of NSPS Subpart UU}

A. EU No. 001 – Asphalt Mat Coater

RECORDS AND REPORTS

A.7. The permittee shall maintain records in order to ensure compliance with Specific Condition Nos. A.2. and A.3. The records shall include, as a minimum, the following information and shall be made available for inspection by the Environmental Protection Commission of Hillsborough County for at least three years. The records shall include, as a minimum: [Rules 62-4.070(3) and 62-4.160(14), F.A.C.]

A) Date
B) Asphalt Mat Coater Processing Rate (in ton/hr.)
C) Number of asphalt shingles produced
D) The temperature of the gas at the inlet of the control device (in ^{o}F)
E) The air pressure differential (Delta P) across the fiberbed coalescing system
G) Monthly tons of asphalt/limestone mixture coated used
H) Monthly tons of asphalt shingles produced
I) 12 month rolling total of Item G) and H) above