

# AIR PERMIT

**PERMITTEE:** OWENS CORNING ROOFING AND ASPHALT, LLC

**FACILITY NAME:** OWENS CORNING PRATTVILLE

**LOCATION:** PRATTVILLE, AUTAUGA COUNTY, ALABAMA

<b>PERMIT NUMBER</b>	<b>DESCRIPTION OF EQUIPMENT, ARTICLE, OR DEVICE</b>
201-0018-X001	<p><b><u>Asphalt Plant Oxidization Process</u></b></p> <p>Direct Fired Thermal Oxidizer (TO) (EPN 2)</p> <ul style="list-style-type: none"><li>• Asphalt Converters 1 and 2</li><li>• Knock Out Tanks 1 and 2</li><li>• Asphalt Preheater</li></ul> <p>Polymer Handling (Fugitive – EPN 9)</p>

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

**ISSUANCE DATE:** **DATE**

Alabama Department of Environmental Management

**Owens Corning Roofing and Asphalt, LLC**  
**Prattville, ALABAMA**  
**(PERMIT NO. 201-0018-X001)**  
**PROVISOS**

**General Permit Provisos**

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
5. Nothing in this permit or conditions thereto shall negate any authority granted to the Air Division pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
6. This process, including all air pollution control devices and capture systems for which this Permit is issued, shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.
7. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events that exceed **one (1) hour** within **24 hours**. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five (5) years. These records shall be available for inspection.
8. In case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than **one (1) hour**, the intent to shut down shall be reported to the Air Division at least **24 hours** prior to the planned shutdown, unless accompanied by the immediate shutdown of the emission source.
9. In the event there is a breakdown of air pollution control or process equipment in such a manner as to cause increased emission of air contaminants for a period greater than **one (1) hour**, the person responsible for such equipment shall notify the Air Division within **24 hours** and provide a statement giving all pertinent facts, including the duration of the breakdown. The Air Division shall be notified when the breakdown has been corrected.
10. All deviations from requirements within this Permit shall be reported to the Department within **48 hours or two (2) working days** of determining that a deviation occurred. The report will include information regarding the date, time, duration, cause, and any corrective actions or preventative measures that were taken.

11. This Permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the Permit.
12. On completion of construction of the device(s) for which this Permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this Permit.
13. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
14. Each point of emission, which requires testing, will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.
15. Unless otherwise stated in this Permit or an applicable regulation, the Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.
  - a. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:
    - i. The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
    - ii. A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).
    - iii. A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
    - iv. A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.
  - b. A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.
16. Unless otherwise stated in this Permit or an applicable regulation, all test reports must be submitted to the Air Division within 30 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

17. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific Permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific source is in compliance.
18. Records will be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records will be kept in a permanent form suitable for inspection and will be retained for at least two (2) years following the date of each occurrence.
19. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.
  - a. Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:
    - i. by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
    - ii. by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
    - iii. by paving;
    - iv. by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;
    - v. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.
20. Precautions shall be taken by the Permittee and its personnel to ensure that no person shall ignite, cause to be ignited, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.
21. The Permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.
22. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
23. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.

24. The Permittee shall keep this Permit under file or on display at all times at the site where the facility for which the Permit is issued is located and shall make the Permit readily available for inspection by any or all persons who may request to see it.
25. An annual compliance certification covering the reporting period from January 1 through December 31 shall be submitted by March 31 each year:
  - a. The compliance certification shall include the following:
    - i. The identification of each term or condition of this permit that is the basis of the certification;
    - ii. The compliance status;
    - iii. Whether compliance has been continuous or intermittent;
    - iv. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);
    - v. Such other facts as the Department may require in order to determine the compliance status of the source.
  - b. The compliance certification shall be submitted to:

Alabama Department of Environmental Management  
Air Division  
P.O. Box 301463  
Montgomery, AL 36130-1463

**PROVISOS FOR ASPHALT OXIDATION PROCESS**

Federally Enforceable Provisos	Regulations
<b><u>Applicability</u></b>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, “ <i>Control of Particulate Emissions: Visible Emissions</i> ”.	Rule 335-3-4-.01
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, “ <i>Control of Particulate Emissions – Process Industries – General</i> ”.	Rule 335-3-4-.04
3. The Permittee has requested specific limitations in order to avoid a review under ADEM Admin. Code r. 335-3-14-.04, “ <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ”.	Rule 335-3-14-.04 (Anti-PSD)
4. The facility is subject to the applicable requirements of 40 CFR Part 60, Subpart A, “ <i>General Provisions</i> ”.	Rule 335-3-10-.02(1) 40 CFR 60.1(a)
5. Asphalt Converters (Blowing Stills) 1 & 2 and the Direct Fired Thermal Oxidizer are subject to the applicable requirements of 40 CFR Part 60, Subpart UU, “ <i>Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture</i> ”,	Rule 335-3-10-.02(47) 40 CFR 60.470(a)
6. The facility is subject to the applicable requirements of 40 CFR Part 63, Subpart A, “ <i>General Provisions</i> ” as specified in Table 5 to Subpart AAAAAAA of Part 63.	Rule 335-3-11-.06(1) 40 CFR 60.11565
7. Asphalt Converters 1 & 2 and the Direct Fired Thermal Oxidizer are subject to the applicable requirements of 40 CFR Part 63, Subpart AAAAAAA, “ <i>National Emissions Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing</i> ”.	40 CFR 63.11559(a) 40 CFR 63.11559(b)(1)
<b><u>Emission Standards</u></b>	
1. These sources shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60-minute period, these sources shall not discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall these sources discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)

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2. Particulate matter (PM) emissions from the asphalt converters shall not exceed the standard set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1)
3. The facility shall limit polymer usage to 1,000 tons per rolling 12-month period.	Rule 335-3-14-.01(1)(g)
4. The facility shall process no more than 292,000 tons of asphalt per rolling 12-month period.	Rule 335-3-14-.04 (Anti-PSD)
5. Sulfur dioxide (SO <sub>2</sub> ) emissions from EPN 2 shall not exceed 1.1 lb/ton of asphalt charged to the asphalt converters.	Rule 335-3-14-.04 (Anti-PSD)
6. SO <sub>2</sub> emissions shall not exceed 245 tons per rolling 12-month period from all emissions sources combined at the facility.	Rule 335-3-14-.04 (Anti-PSD)
7. The Permittee shall not cause to be discharged into the atmosphere from the asphalt converters (EPN 2):	
(a) Particulate matter (PM) in excess of 1.2 lb/ton of asphalt charged to the asphalt converters.	40 CFR 60.472(b)(3)
(b) Exhaust gases with an opacity greater than 0 percent.	40 CFR 63.472(b)(5)
8. The Permittee shall comply with the following limits for the asphalt converters at all times:	40 CFR 63.11561(a) 40 CFR 63.11561(c)
(a) Limit polyaromatic hydrocarbon (PAH) emissions to 0.003 lb/ton of asphalt charged to the asphalt converters; or	
(b) Limit PM emissions to 1.2 lb/ton of asphalt charged to the asphalt converters.	
9. At all times the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	40 CFR 63.11563(i)
<b><u>Compliance and Performance Test Methods and Procedures</u></b>	
1. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used to determine compliance with Emission Standard No. 1.	Rule 335-3-1-.05
2. Method 5 of 40 CFR Part 60, Appendix A-3 shall be used to determine compliance with Emission Standard No. 2.	Rule 335-3-1-.05
3. Method 6 or 6C of 40 CFR Part 60, Appendix A-4 shall be used to determine compliance with Emission Standard No. 5.	Rule 335-3-1-.05

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<p>4. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, the Permittee must conduct the performance test required by 40 CFR 60.8 to demonstrate compliance with Emission Standard No. 7. The test shall be conducted as follows:</p>	<p>40 CFR 60.474(c) 40 CFR 60.8(a)</p>
<p>(a) The emission rate (E) of particulate matter shall be computed for each run using the following equation:</p>	
<p><math display="block">E = (c_s Q_{sd}) / (PK)</math></p>	
<p>Where:</p>	
<p><b>E</b> = emission rate of particulate matter, kg/Mg (lb/ton)</p>	
<p><b>c<sub>s</sub></b> = concentration of particulate matter, g/dscm (gr/dscf)</p>	
<p><b>Q<sub>sd</sub></b> = volumetric flow rate of effluent gas, dscm/hr (dscf/hr)</p>	
<p><b>P</b> = asphalt charging rate, Mg/hr (ton/hr)</p>	
<p><b>K</b> = conversion factor, 1000 g/kg [7000 (gr/lb)]</p>	
<p>(b) Method 5A of 40 CFR Part 60, Appendix A-3 shall be used to determine the particulate matter concentration (c<sub>s</sub>) and volumetric flow rate (Q<sub>sd</sub>) of the effluent gas. The sampling time and sample volume for each run shall be at least 90 minutes or the duration of the coating blow or non-coating blow, whichever is greater, and 2.25 dscm (79.4 dscf).</p>	
<p>(c) The asphalt charging rate (P) shall be computed for each run using the equation in 40 CFR 60.474(c)(4).</p>	
<p>(d) Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity.</p>	
<p>(e) The Permittee shall monitor and record continuously the combustion zone temperature during the particulate matter runs and shall report the results to the Department with the performance test results.</p>	<p>40 CFR 60.473(d) 40 CFR 60.474(e)</p>
<p>5. The Permittee must demonstrate initial compliance with Emission Standard No. 8 within 180 days of startup by conducting emission tests using the following methods and procedures:</p>	<p>40 CFR 63.11562(a)(1)(i) 40 CFR 63.11562(h) 40 CFR 63.11562(i)</p>
<p>(a) The Permittee must conduct the tests while manufacturing the product that generates the greatest PAH and PM emissions to the control device inlet.</p>	
<p>(b) The Permittee must conduct a minimum of three separate test runs according to the requirements specified in 40 CFR 63.7(e)(3).</p>	

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- (c) The sampling time and sample volume for each test run must be at least 90 minutes or the duration of the coating blow or non-coating blow, whichever is greater, and 2.25 dscm (79.4 dscf).
- (d) The Permittee must use the equations in 40 CFR 63.11562(i)(3) to calculate the asphalt charging rate.
- (e) For selecting the sampling locations and the number of traverse points, the Permittee must use Method 1 or 1A of 40 CFR Part 60, Appendix A-1. The sampling locations must be located at the outlet of the control device prior to any releases to the atmosphere.
- (f) For determining the velocity and volumetric flow rate, the Permittee must use Method 2, 2A, 2C, 2D, 2F, or 2G of 40 CFR Part 60, Appendix A-1/A-2.
- (g) For determining the gas molecular weight used for flow rate determination, the Permittee must use Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A-2.
- (h) For measuring the moisture content of the stack gas, the Permittee must use Method 4 of 40 CFR Part 60, Appendix A-3.
- (i) For measuring the PM emissions, the Permittee must use Method 5A of 40 CFR Part 60, Appendix A-3.
- (j) For measuring the PAH emissions, the Permittee must use Method 23 of 40 CFR Part 60, Appendix A-7. When using EPA Method 23, the toluene extraction step specified in section 3.1.2.1 of the method should be omitted.

**Emission Monitoring**

- 1. The Permittee shall conduct an instantaneous visual check of the stacks associated with the asphalt oxidation process at least once per week while these sources are in operation. This check shall be performed by a person familiar with Method 9. If any visible emissions are noted at any time, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours. Rule 335-3-1-.04(1)
- (a) After corrective action has been completed, the Permittee shall conduct another visual check to confirm that the emissions have been eliminated. If visible emissions are observed at the time of the follow-up check, additional corrective action shall be taken until the emissions have been eliminated. Rule 335-3-1-.04(1)

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<p>2. During the performance test to demonstrate initial compliance with Emission Standard No. 8, the Permittee must establish a minimum combustion zone temperature (based on a 3-hour average).</p>	<p>40 CFR 63.11562(a)(2)(i)</p>
<p>3. The Permittee must maintain the 3-hour average combustion zone temperature at or above the level established as specified in 40 CFR 63.11562(a)(2).</p>	<p>40 CFR 63.11563(a)</p>
<p>4. The Permittee must develop and make available for inspection by the Department, upon request, a site-specific monitoring plan (SSMP) for each monitoring system that addresses the following:</p> <ul style="list-style-type: none"> <li>(a) Installation of the continuous parameter monitoring system (CPMS) probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (<i>e.g.</i>, on or downstream of the last control device);</li> <li>(b) Performance and equipment specifications for the probe or interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and</li> <li>(c) Performance evaluation procedures and acceptance criteria (<i>e.g.</i>, calibrations). In the SSMP, the Permittee must also address the following: <ul style="list-style-type: none"> <li>i. Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);</li> <li>ii. Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d); and</li> <li>iii. Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i).</li> </ul> </li> </ul>	<p>40 CFR 63.11563(b)</p>
<p>5. The Permittee must install, operate, and maintain a CPMS for the combustion zone temperature as specified below:</p> <ul style="list-style-type: none"> <li>(a) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period.</li> <li>(b) To determine the 3-hour average, the Permittee must: <ul style="list-style-type: none"> <li>i. Have a minimum of four successive cycles of operation to have a valid hour of data.</li> </ul> </li> </ul>	<p>40 CFR 63.11563(c) 40 CFR 63.11563(d) 40 CFR 60.473(b)</p>

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| <ul style="list-style-type: none"> <li>ii. Have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the SSMP.</li> <li>iii. Determine the 3-hour average of all recorded readings for each operating day. The Permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (<i>i.e.</i>, not from out-of-control periods).</li> <li>(c) The Permittee must record the results of each inspection, calibration, and validation check of the CPMS.</li> <li>(d) The temperature sensor shall be located in a position that provides a representative temperature.</li> <li>(e) The temperature sensor must have a minimum measurement sensitivity of 2.8°C (37°F) or 1.0 percent of the temperature value, whichever is larger.</li> <li>(f) The temperature monitoring instrument shall have an accuracy of ±10 °C (±18 °F) over its range.</li> <li>(g) The Permittee must perform an accuracy check at least semiannually or following an operating parameter deviation: according to the procedures in the manufacturer's documentation; or by comparing the sensor output to redundant sensor output; or by comparing the sensor output to the output from a calibrated temperature measurement device; or by comparing the sensor output to the output from a temperature simulator.</li> <li>(h) The Permittee must conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.</li> <li>(i) At least quarterly or following an operating parameter deviation, the Permittee must perform visual inspections of components if redundant sensors are not used.</li> <li>6. The Permittee must conduct a performance evaluation of each CPMS in accordance with the SSMP.</li> <li>7. The Permittee must operate and maintain the CPMS in continuous operation according to the SSMP.</li> </ul> | <ul style="list-style-type: none"> <li>40 CFR 63.11563(j)</li> <li>40 CFR 63.11563(k)</li> </ul> |
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**Recordkeeping and Reporting Requirements**

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| <p>1. The Permittee must submit each applicable notification in 40 CFR 60.7(a), including notifications of the date of construction and the actual date of initial startup of the asphalt converters.</p>  | <p>40 CFR 60.7(a)</p>        |
| <p>2. The Permittee shall provide the Department at least 30 days prior notice of any performance test to demonstrate compliance with 40 CFR Part 60, Subpart UU.</p>  | <p>40 CFR 60.8(d)</p>        |
| <p>3. The Permittee must submit a notification of intent to conduct a compliance test at least 60 calendar days before the compliance test is scheduled to begin to demonstrate compliance with 40 CFR Part 63, Subpart AAAAAAA.</p>   | <p>40 CFR 63.11564(a)(4)</p> |
| <p>4. The Permittee must submit all of the notifications in 40 CFR 63.5(b), 63.7(b); 63.8(e) and (f); 63.9(b) through (e); and 63.9(g) and (h) that apply by the dates specified in those sections.</p>  | <p>40 CFR 63.11564(a)(1)</p> |
| <p>(a) As specified in 40 CFR 63.9(b)(4) and (5), the Permittee must submit an Initial Notification not later than 120 calendar days after becoming subject to 40 CFR Part 63, Subpart AAAAAAA.</p>  | <p>40 CFR 63.11564(a)(3)</p> |
| <p>(b) The Permittee must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). The Permittee must submit the Notification of Compliance Status, including the compliance test results, before the close of business on the 60th calendar day following the completion of the compliance test according to 40 CFR 63.10(d)(2).</p>            | <p>40 CFR 63.11564(a)(5)</p> |
| <p>5. The following records shall be maintained in a form suitable for inspection for a period of at least 5 years:</p>  |                              |
| <p>(a) The date, time, observer name, and results of each visual check required by Emission Monitoring Proviso No. 1.</p>  | <p>Rule 335-3-1-.04(1)</p>   |
| <p>(b) Records of each Method 9 observation conducted, documented using the “Visible Emission Observation Form” available in EPA’s Visible Emissions Field Manual or equivalent.</p>   | <p>Rule 335-3-1-.04(1)</p>   |
| <p>(c) For each instance where corrective action is required: records of corrective actions taken, including the source ID, the date and time corrective action was initiated, whether the applicable requirement for timely initiation of corrective action was met, and a specific description of the actions taken and the results of the corrective action(s).</p> | <p>Rule 335-3-1-.04(1)</p>   |

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(d) Records of the monthly total and the 12-month rolling total tons of polymer used.	Rule 335-3-1-.04(1)
(e) Records of the monthly total and the 12-month rolling total tons of asphalt processed in the Asphalt Plant.	Rule 335-3-1-.04(1)
(f) Records of the monthly total and the 12-month rolling total SO <sub>2</sub> emissions from these sources.	Rule 335-3-1-.04(1)
(g) A copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart AAAAAAA, including all documentation supporting any Initial Notification or Notification of Compliance Status.	40 CFR 63.11564(c)(1)
(h) Copies of emission tests used to demonstrate compliance with 40 CFR Part 63, Subpart AAAAAAA and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).	40 CFR 63.11564(c)(2)
(i) Documentation that contains the data used to establish the minimum combustion zone temperature as specified in 40 CFR 63.11562(a)(2).	40 CFR 63.11564(c)(4)
(j) A copy of the site-specific monitoring plan (SSMP) required under 40 CFR 63.11563(b).	40 CFR 63.11564(c)(8)
(k) Records of the 3-hour average combustion zone temperature recorded by the CPMS.	40 CFR 63.11564(c)(10)
6. Reports to the Department of any required monitoring shall be submitted at least every six (6) months. The reports must be submitted for the periods of January 1 through June 30 and July 1 through December 31. The reports are due no later than July 31 or January 31. All instances of deviations from permit requirements must be clearly identified in the report. All reports must be certified by a responsible official as defined in ADEM Admin. Code r. 335-3-16-.01(1)(y).	Rule 335-3-1-.04(1)
7. The Permittee must submit semiannual compliance reports which address the information in 40 CFR 63.11564(b)(1)-(3). The reports must be submitted for the periods of January 1 through June 30 and July 1 through December 31. The reports are due no later than July 31 or January 31. The first report must be submitted for the remainder of first calendar half following the compliance test date.	40 CFR 63.11564(b)

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8. The Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with 40 CFR Part 60, Subpart UU and 40 CFR Part 63, Subpart AAAAAAA within 60 days following the completion of the test.	40 CFR 60.8(a) 40 CFR 63.7(g)(1)
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DRAFT

# AIR PERMIT

**PERMITTEE:** OWENS CORNING ROOFING AND ASPHALT, LLC

**FACILITY NAME:** OWENS CORNING PRATTVILLE

**LOCATION:** PRATTVILLE, AUTAUGA COUNTY, ALABAMA

<b>PERMIT NUMBER</b>	<b>DESCRIPTION OF EQUIPMENT, ARTICLE, OR DEVICE</b>
201-0018-X002	<p><b><u>Roofing Line Process</u></b></p> <p>Roofing Regenerative Thermal Oxidizer (TO) (EPN 17)</p> <ul style="list-style-type: none"><li>• Asphalt Coater</li><li>• Asphalt Filler Mixer</li><li>• Sealant/Adhesive Applicators</li></ul> <p>Roofing Line Roof Vent (EPN 16)</p> <ul style="list-style-type: none"><li>• Cooling Section</li></ul> <p>Hot Filler System with Baghouse (EPN 25)</p> <p>Finishing Layer Application System (Fugitive – EPN 30)</p>

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

**ISSUANCE DATE:** **DATE**

Alabama Department of Environmental Management

**Owens Corning Roofing and Asphalt, LLC**  
**Prattville, ALABAMA**  
**(PERMIT NO. 201-0018-X002)**  
**PROVISOS**

**General Permit Provisos**

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
5. Nothing in this permit or conditions thereto shall negate any authority granted to the Air Division pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
6. This process, including all air pollution control devices and capture systems for which this Permit is issued, shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.
7. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events that exceed **one (1) hour** within **24 hours**. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five (5) years. These records shall be available for inspection.
8. In case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than **one (1) hour**, the intent to shut down shall be reported to the Air Division at least **24 hours** prior to the planned shutdown, unless accompanied by the immediate shutdown of the emission source.
9. In the event there is a breakdown of air pollution control or process equipment in such a manner as to cause increased emission of air contaminants for a period greater than **one (1) hour**, the person responsible for such equipment shall notify the Air Division within **24 hours** and provide a statement giving all pertinent facts, including the duration of the breakdown. The Air Division shall be notified when the breakdown has been corrected.
10. All deviations from requirements within this Permit shall be reported to the Department within **48 hours or two (2) working days** of determining that a deviation occurred. The report will include information regarding the date, time, duration, cause, and any corrective actions or preventative measures that were taken.

11. This Permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the Permit.
12. On completion of construction of the device(s) for which this Permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this Permit.
13. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
14. Each point of emission, which requires testing, will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.
15. Unless otherwise stated in this Permit or an applicable regulation, the Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.
  - a. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:
    - i. The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
    - ii. A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).
    - iii. A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
    - iv. A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.
  - b. A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.
16. Unless otherwise stated in this Permit or an applicable regulation, all test reports must be submitted to the Air Division within 30 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

17. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific Permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific source is in compliance.
18. Records will be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records will be kept in a permanent form suitable for inspection and will be retained for at least two (2) years following the date of each occurrence.
19. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.
  - a. Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:
    - i. by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
    - ii. by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
    - iii. by paving;
    - iv. by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;
    - v. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.
20. Precautions shall be taken by the Permittee and its personnel to ensure that no person shall ignite, cause to be ignited, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.
21. The Permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.
22. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
23. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.

24. The Permittee shall keep this Permit under file or on display at all times at the site where the facility for which the Permit is issued is located and shall make the Permit readily available for inspection by any or all persons who may request to see it.
25. An annual compliance certification covering the reporting period from January 1 through December 31 shall be submitted by March 31 each year:
  - a. The compliance certification shall include the following:
    - i. The identification of each term or condition of this permit that is the basis of the certification;
    - ii. The compliance status;
    - iii. Whether compliance has been continuous or intermittent;
    - iv. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);
    - v. Such other facts as the Department may require in order to determine the compliance status of the source.
  - b. The compliance certification shall be submitted to:

Alabama Department of Environmental Management  
Air Division  
P.O. Box 301463  
Montgomery, AL 36130-1463

**PROVISOS FOR ROOFING LINE PROCESS**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b><u>Applicability</u></b>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, “ <i>Control of Particulate Emissions: Visible Emissions</i> ”.	Rule 335-3-4-.01
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, “ <i>Control of Particulate Emissions – Process Industries – General</i> ”.	Rule 335-3-4-.04
3. The Permittee has requested specific limitations in order to avoid a review under ADEM Admin. Code r. 335-3-14-.04, “ <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ”.	Rule 335-3-14-.04 (Anti-PSD)
4. The facility is subject to the applicable requirements of 40 CFR Part 60, Subpart A, “ <i>General Provisions</i> ”.	Rule 335-3-10-.02(1) 40 CFR 60.1(a)
5. The Asphalt Coater and the Roofing Regenerative Thermal Oxidizer are subject to the applicable requirements of 40 CFR Part 60, Subpart UU, “ <i>Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture</i> ”,	Rule 335-3-10-.02(47) 40 CFR 60.470(a)
6. The facility is subject to the applicable requirements of 40 CFR Part 63, Subpart A, “ <i>General Provisions</i> ” as specified in Table 5 to Subpart AAAAAAA of Part 63.	Rule 335-3-11-.06(1) 40 CFR 60.11565
7. The Asphalt Coater and the Roofing Regenerative Thermal Oxidizer are subject to the applicable requirements of 40 CFR Part 63, Subpart AAAAAAA, “ <i>National Emissions Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing</i> ”.	40 CFR 63.11559(a) 40 CFR 63.11559(b)(2)
<b><u>Emission Standards</u></b>	
1. These sources shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60-minute period, these sources shall not discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall these sources discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)

**Federally Enforceable Provisos**

**Regulations**

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| <p>2. Particulate matter (PM) emissions from the asphalt coater and asphalt fill mixer shall not exceed the standard set by ADEM Admin. Code r. 335-3-4-.04(1).</p>  | <p>Rule 335-3-4-.04(1)</p>                       |
| <p>3. SO<sub>2</sub> emissions shall not exceed 245 tons per rolling 12-month period from all emissions sources combined at the facility.</p>  | <p>Rule 335-3-14-.04 (Anti-PSD)</p>              |
| <p>4. The Permittee shall not cause to be discharged into the atmosphere from the asphalt coater (EPN 17):</p>   |  |
| <p>(a) Particulate matter (PM) in excess of 0.08 lb/ton of asphalt shingle or mineral-surfaced roll roofing produced, or 0.8 lb/ton of saturated felt or smooth-surfaced roll roofing produced.</p>  | <p>40 CFR 60.472(a)(1)</p>                       |
| <p>(b) Exhaust gases with an opacity greater than 20 percent.</p>  | <p>40 CFR 63.472(a)(2)</p>                       |
| <p>(c) Any visible emissions from the asphalt coater capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes.</p>  | <p>40 CFR 63.472(a)(3)</p>                       |
| <p>5. The Permittee shall comply with the following limits for the asphalt coater at all times:</p>  |  |
| <p>(a) Limit polyaromatic hydrocarbon (PAH) emissions to 0.0002 lb/ton of asphalt roofing product manufactured; or</p>   | <p>40 CFR 63.11561(b)<br/>40 CFR 63.11561(c)</p> |
| <p>(b) Limit PM emissions to 0.06 lb/ton of asphalt roofing product manufactured.</p>  |  |
| <p>6. At all times the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.</p> | <p>40 CFR 63.11563(i)</p>                        |

**Compliance and Performance Test Methods and Procedures**

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| <p>1. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used to determine compliance with Emission Standard No. 1.</p>  | <p>Rule 335-3-1-.05</p>   |
| <p>2. Method 5 of 40 CFR Part 60, Appendix A-3 shall be used to determine compliance with Emission Standard No. 2.</p>  | <p>Rule 335-3-1-.05</p>   |
| <p>3. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, the Permittee must conduct the performance test required by 40 CFR 60.8 to demonstrate compliance with Emission Standard No. 4. The test shall be conducted as follows:</p> | <p>40 CFR 60.474(a)<br/>40 CFR 60.474(c)<br/>40 CFR 60.8(a)</p> |

**Federally Enforceable Provisos**

**Regulations**

- (a) If the final product is shingle or mineral-surfaced roll roofing, the tests shall be conducted while 235-lb shingle is being produced.
- (b) If the final product is saturated felt or smooth-surfaced roll roofing, the tests shall be conducted while 15-lb felt is being produced.
- (c) If the final product is fiberglass shingle, the test shall be conducted while a nominal 220-lb shingle is being produced.
- (d) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = (c_s Q_{sd}) / (PK)$$

Where:

- E** = emission rate of particulate matter, kg/Mg (lb/ton)
- c<sub>s</sub>** = concentration of particulate matter, g/dscm (gr/dscf)
- Q<sub>sd</sub>** = volumetric flow rate of effluent gas, dscm/hr (dscf/hr)
- P** = asphalt roofing production rate, Mg/hr (ton/hr)
- K** = conversion factor, 1000 g/kg [7000 (gr/lb)]

- (e) Method 5A of 40 CFR Part 60, Appendix A-3 shall be used to determine the particulate matter concentration (c<sub>s</sub>) and volumetric flow rate (Q<sub>sd</sub>) of the effluent gas. The sampling time and sample volume for each run shall be at least 90 minutes or the duration of the coating blow or non-coating blow, whichever is greater, and 2.25 dscm (79.4 dscf).
- (f) The asphalt roofing production rate (P) for each run shall be determined as follows: The amount of asphalt roofing produced on the shingle or saturated felt process lines shall be obtained by direct measurement. The asphalt roofing production rate is the amount produced divided by the time taken for the run.
- (g) Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity.
- (h) The Permittee will determine compliance with the standard in 40 CFR 60.472(a)(3) by using Method 22, modified so that readings are recorded every 15 seconds for a period of consecutive observations during representative conditions (in accordance with 40 CFR 60.8(c)) totaling 60 minutes. A performance test shall consist of one run.

40 CFR 60.474(d)

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<p>(i) The Permittee shall monitor and record continuously the combustion zone temperature during the particulate matter runs and shall report the results to the Department with the performance test results.</p>	<p>40 CFR 60.473(d) 40 CFR 60.474(e)</p>
<p>4. The Permittee must demonstrate initial compliance with Emission Standard No. 5 within 180 days of startup by conducting emission tests using the following methods and procedures:</p> <p>(a) The Permittee must conduct the tests while manufacturing the product that generates the greatest PAH and PM emissions to the control device inlet.</p> <p>(b) The Permittee must conduct a minimum of three separate test runs according to the requirements specified in 40 CFR 63.7(e)(3).</p> <p>(c) The sampling time and sample volume for each test run must be at least 120 minutes and 3.00 dscm (106 dscf).</p> <p>(d) The Permittee must use the equation in 40 CFR 63.11562(i)(4) to demonstrate compliance with Emission Standard No. 5.</p> <p>(e) For selecting the sampling locations and the number of traverse points, the Permittee must use Method 1 or 1A of 40 CFR Part 60, Appendix A-1. The sampling locations must be located at the outlet of the control device prior to any releases to the atmosphere.</p> <p>(f) For determining the velocity and volumetric flow rate, the Permittee must use Method 2, 2A, 2C, 2D, 2F, or 2G of 40 CFR Part 60, Appendix A-1/A-2.</p> <p>(g) For determining the gas molecular weight used for flow rate determination, the Permittee must use Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A-2.</p> <p>(h) For measuring the moisture content of the stack gas, the Permittee must use Method 4 of 40 CFR Part 60, Appendix A-3.</p> <p>(i) For measuring the PM emissions, the Permittee must use Method 5A of 40 CFR Part 60, Appendix A-3.</p> <p>(j) For measuring the PAH emissions, the Permittee must use Method 23 of 40 CFR Part 60, Appendix A-7. When using EPA Method 23, the toluene extraction step specified in section 3.1.2.1 of the method should be omitted.</p>	<p>40 CFR 63.11562(b)(1)(i) 40 CFR 63.11562(h) 40 CFR 63.11562(i)</p>

**Federally Enforceable Provisos**

**Regulations**

**Emission Monitoring**

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| <p>1. The Permittee shall conduct an instantaneous visual check of the stacks associated with the roofing line process at least once per week while these sources are in operation. This check shall be performed by a person familiar with Method 9. If any visible emissions are noted at any time, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.</p>   | <p>Rule 335-3-1-.04(1)</p>      |
| <p>(a) After corrective action has been completed, the Permittee shall conduct another visual check to confirm that the emissions have been eliminated. If visible emissions are observed at the time of the follow-up check, additional corrective action shall be taken until the emissions have been eliminated.</p>  | <p>Rule 335-3-1-.04(1)</p>      |
| <p>2. During the performance test to demonstrate initial compliance with Emission Standard No. 5, the Permittee must establish a minimum combustion zone temperature (based on a 3-hour average).</p>  | <p>40 CFR 63.11562(b)(2)(i)</p> |
| <p>3. The Permittee must maintain the 3-hour average combustion zone temperature at or above the level established as specified in 40 CFR 63.11562(b)(2).</p>  | <p>40 CFR 63.11563(a)</p>       |
| <p>4. The Permittee must develop and make available for inspection by the Department, upon request, a site-specific monitoring plan (SSMP) for each monitoring system that addresses the following:</p> <p>(a) Installation of the continuous parameter monitoring system (CPMS) probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (<i>e.g.</i>, on or downstream of the last control device);</p> <p>(b) Performance and equipment specifications for the probe or interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and</p> <p>(c) Performance evaluation procedures and acceptance criteria (<i>e.g.</i>, calibrations). In the SSMP, the Permittee must also address the following:</p> <p>i. Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);</p> | <p>40 CFR 63.11563(b)</p>       |

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<ul style="list-style-type: none"> <li>ii. Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d); and</li> <li>iii. Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i).</li> </ul>	
<p>5. The Permittee must install, operate, and maintain a CPMS for the combustion zone temperature as specified below:</p>	<p>40 CFR 63.11563(c) 40 CFR 63.11563(d) 40 CFR 60.473(b)</p>
<p>(a) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period.</p>	
<p>(b) To determine the 3-hour average, the Permittee must:</p>	
<p>i. Have a minimum of four successive cycles of operation to have a valid hour of data.</p>	
<p>ii. Have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the SSMP.</p>	
<p>iii. Determine the 3-hour average of all recorded readings for each operating day. The Permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (<i>i.e.</i>, not from out-of-control periods).</p>	
<p>(c) The Permittee must record the results of each inspection, calibration, and validation check of the CPMS.</p>	
<p>(d) The temperature sensor shall be located in a position that provides a representative temperature.</p>	
<p>(e) The temperature sensor must have a minimum measurement sensitivity of 2.8°C (37°F) or 1.0 percent of the temperature value, whichever is larger.</p>	
<p>(f) The temperature monitoring instrument shall have an accuracy of ±10 °C (±18 °F) over its range.</p>	
<p>(g) The Permittee must perform an accuracy check at least semiannually or following an operating parameter deviation: according to the procedures in the manufacturer's documentation; or by comparing the sensor output to redundant sensor output; or by comparing the sensor output to the output from a calibrated temperature measurement device; or by comparing the sensor output to the output from a temperature simulator.</p>	

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(h) The Permittee must conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.	
(i) At least quarterly or following an operating parameter deviation, the Permittee must perform visual inspections of components if redundant sensors are not used.	
6. The Permittee must conduct a performance evaluation of each CPMS in accordance with the SSMP.	40 CFR 63.11563(j)
7. The Permittee must operate and maintain the CPMS in continuous operation according to the SSMP.	40 CFR 63.11563(k)
<b><u>Recordkeeping and Reporting Requirements</u></b>	
1. The Permittee must submit each applicable notification in 40 CFR 60.7(a), including notifications of the date of construction and the actual date of initial startup of the asphalt converters.	40 CFR 60.7(a)
2. The Permittee shall provide the Department at least 30 days prior notice of any performance test to demonstrate compliance with 40 CFR Part 60, Subpart UU.	40 CFR 60.8(d)
3. The Permittee must submit a notification of intent to conduct a compliance test at least 60 calendar days before the compliance test is scheduled to begin to demonstrate compliance with 40 CFR Part 63, Subpart AAAAAAA.	40 CFR 63.11564(a)(4)
4. The Permittee must submit all of the notifications in 40 CFR 63.5(b), 63.7(b); 63.8(e) and (f); 63.9(b) through (e); and 63.9(g) and (h) that apply by the dates specified in those sections.	40 CFR 63.11564(a)(1)
(a) As specified in 40 CFR 63.9(b)(4) and (5), the Permittee must submit an Initial Notification not later than 120 calendar days after becoming subject to 40 CFR Part 63, Subpart AAAAAAA.	40 CFR 63.11564(a)(3)
(b) The Permittee must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). The Permittee must submit the Notification of Compliance Status, including the compliance test results, before the close of business on the 60th calendar day following the completion of the compliance test according to 40 CFR 63.10(d)(2).	40 CFR 63.11564(a)(5)
5. The following records shall be maintained in a form suitable for inspection for a period of at least 5 years:	

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(a) The date, time, observer name, and results of each visual check required by Emission Monitoring Proviso No. 1.	Rule 335-3-1-.04(1)
(b) Records of each Method 9 observation conducted, documented using the “Visible Emission Observation Form” available in EPA’s Visible Emissions Field Manual or equivalent.	Rule 335-3-1-.04(1)
(c) For each instance where corrective action is required: records of corrective actions taken, including the source ID, the date and time corrective action was initiated, whether the applicable requirement for timely initiation of corrective action was met, and a specific description of the actions taken and the results of the corrective action(s).	Rule 335-3-1-.04(1)
(d) Records of the monthly total and the 12-month rolling total SO <sub>2</sub> emissions from these sources.	Rule 335-3-1-.04(1)
(e) A copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart AAAAAAA, including all documentation supporting any Initial Notification or Notification of Compliance Status.	40 CFR 63.11564(c)(1)
(f) Copies of emission tests used to demonstrate compliance with 40 CFR Part 63, Subpart AAAAAAA and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).	40 CFR 63.11564(c)(2)
(g) Documentation that contains the data used to establish the minimum combustion zone temperature as specified in 40 CFR 63.11562(b)(2).	40 CFR 63.11564(c)(4)
(h) A copy of the site-specific monitoring plan (SSMP) required under 40 CFR 63.11563(b).	40 CFR 63.11564(c)(8)
(i) Records of the 3-hour average combustion zone temperature recorded by the CPMS.	40 CFR 63.11564(c)(10)
6. Reports to the Department of any required monitoring shall be submitted at least every six (6) months. The reports must be submitted for the periods of January 1 through June 30 and July 1 through December 31. The reports are due no later than July 31 or January 31. All instances of deviations from permit requirements must be clearly identified in the report. All reports must be certified by a responsible official as defined in ADEM Admin. Code r. 335-3-16-.01(1)(y).	Rule 335-3-1-.04(1)

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| <p>7. The Permittee must submit semiannual compliance reports which address the information in 40 CFR 63.11564(b)(1)-(3). The reports must be submitted for the periods of January 1 through June 30 and July 1 through December 31. The reports are due no later than July 31 or January 31. The first report must be submitted for the remainder of first calendar half following the compliance test date.</p> | <p>40 CFR 63.11564(b)</p>                   |
| <p>8. The Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with 40 CFR Part 60, Subpart UU and 40 CFR Part 63, Subpart AAAAAA within 60 days following the completion of the test.</p>  | <p>40 CFR 60.8(a)<br/>40 CFR 63.7(g)(1)</p> |

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# AIR PERMIT

**PERMITTEE:** OWENS CORNING ROOFING AND ASPHALT, LLC

**FACILITY NAME:** OWENS CORNNIG PRATTVILLE

**LOCATION:** PRATTVILLE, AUTAUGA COUNTY, ALABAMA

PERMIT NUMBER	DESCRIPTION OF EQUIPMENT, ARTICLE, OR DEVICE
201-0018-X003	<p><b>Tank Storage and Loading/Unloading</b></p> <p><b><u>Asphalt Plant:</u></b></p> <ul style="list-style-type: none"> <li>• Asphalt Plant Regenerative Thermal Oxidizer (EPN 1)                             <ul style="list-style-type: none"> <li>○ Asphalt Storage Tanks 1, 2, 3, 4, 5, 6, 7, 101, 102, 201, 202, and Wetting Tank (Subparts Kc and UU)</li> <li>○ BD Oil Tank 501</li> <li>○ Loading/Unloading Racks LR 1 and LR 2 (EPN 6)</li> <li>○ Asphalt Fiber Bed Filter (EPN 7)</li> </ul> </li> </ul> <p><b><u>Roofing Plant:</u></b></p> <ul style="list-style-type: none"> <li>• Roofing Plant Regenerative Thermal Oxidizer (EPN 17)                             <ul style="list-style-type: none"> <li>○ Sealant/Adhesive Storage Tanks 1 and 2 (Subpart UU)</li> <li>○ Sealant/Adhesive Use Tanks 1 and 2 (Subpart UU)</li> <li>○ Sealant/Adhesive Mix Tank (Subpart UU)</li> <li>○ Coating Surge Tank (Subpart UU)</li> <li>○ Roofing Diesel Tank</li> <li>○ Modifier Oil Tank</li> <li>○ Trackmobile Diesel Tank</li> <li>○ Coating Fiber Bed Filter</li> </ul> </li> </ul>

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

**ISSUANCE DATE:** **DATE**

Alabama Department of Environmental Management

**Owens Corning Roofing and Asphalt, LLC**  
**Prattville, ALABAMA**  
**(PERMIT NO. 201-0018-X003)**  
**PROVISOS**

**General Permit Provisos**

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
5. Nothing in this permit or conditions thereto shall negate any authority granted to the Air Division pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
6. This process, including all air pollution control devices and capture systems for which this Permit is issued, shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.
7. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events that exceed **one (1) hour** within **24 hours**. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five (5) years. These records shall be available for inspection.
8. In case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than **one (1) hour**, the intent to shut down shall be reported to the Air Division at least **24 hours** prior to the planned shutdown, unless accompanied by the immediate shutdown of the emission source.
9. In the event there is a breakdown of air pollution control or process equipment in such a manner as to cause increased emission of air contaminants for a period greater than **one (1) hour**, the person responsible for such equipment shall notify the Air Division within **24 hours** and provide a statement giving all pertinent facts, including the duration of the breakdown. The Air Division shall be notified when the breakdown has been corrected.
10. All deviations from requirements within this Permit shall be reported to the Department within **48 hours or two (2) working days** of determining that a deviation occurred. The report will include information regarding the date, time, duration, cause, and any corrective actions or preventative measures that were taken.

11. This Permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the Permit.
12. On completion of construction of the device(s) for which this Permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this Permit.
13. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
14. Each point of emission, which requires testing, will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.
15. Unless otherwise stated in this Permit or an applicable regulation, the Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.
  - a. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:
    - i. The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
    - ii. A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).
    - iii. A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
    - iv. A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.
  - b. A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.
16. Unless otherwise stated in this Permit or an applicable regulation, all test reports must be submitted to the Air Division within 30 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

17. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific Permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific source is in compliance.
18. Records will be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records will be kept in a permanent form suitable for inspection and will be retained for at least two (2) years following the date of each occurrence.
19. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.
  - a. Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:
    - i. by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
    - ii. by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
    - iii. by paving;
    - iv. by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;
    - v. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.
20. Precautions shall be taken by the Permittee and its personnel to ensure that no person shall ignite, cause to be ignited, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.
21. The Permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.
22. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
23. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.

24. The Permittee shall keep this Permit under file or on display at all times at the site where the facility for which the Permit is issued is located and shall make the Permit readily available for inspection by any or all persons who may request to see it.
25. An annual compliance certification covering the reporting period from January 1 through December 31 shall be submitted by March 31 each year:
  - a. The compliance certification shall include the following:
    - i. The identification of each term or condition of this permit that is the basis of the certification;
    - ii. The compliance status;
    - iii. Whether compliance has been continuous or intermittent;
    - iv. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);
    - v. Such other facts as the Department may require in order to determine the compliance status of the source.
  - b. The compliance certification shall be submitted to:

Alabama Department of Environmental Management  
Air Division  
P.O. Box 301463  
Montgomery, AL 36130-1463

**PROVISOS FOR ASPHALT PLANT AND ROOFING PLANT STORAGE AND LOADING/UNLOADING**

Federally Enforceable Provisos	Regulations
<b><u>Applicability</u></b>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, <i>“Control of Particulate Emissions: Visible Emissions”</i> .	Rule 335-3-4-.01(1)
2. The Permittee has requested specific limitations in order to avoid a review under ADEM Admin. Code r. 335-3-14-.04, <i>“Air Permits Authorizing Construction In Clean Air Areas [Prevention Of Significant Deterioration Permitting (PSD)]”</i> .	Rule 335-3-14-.04 (Anti-PSD)
3. The Permittee is subject to the applicable requirements of 40 CFR Part 60, Subpart A, <i>“General Provisions”</i> .	Rule 335-3-10-.02(1) 40 CFR 60.1(a)
4. Asphalt Storage Tanks 1, 2, 3, 4, 5, 6, 7, 101, 102, 201, 202, and the Wetting Tank are subject to the applicable requirements of 40 CFR Part 60, Subpart Kc, <i>“Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After October 4, 2023”</i> .	Rule 335-3-10-.02(9)(c) 40 CFR 60.110c(a)
5. Asphalt Storage Tanks 1, 2, 3, 4, 5, 6, 7, 101, 102, 201, 202, the Wetting Tank, Sealant/Adhesive Storage Tanks 1 and 2, Sealant/Adhesive Use Tanks 1 and 2, the Sealant/Adhesive Mix Tank, and the Coating Surge Tank are subject to the applicable requirements of 40 CFR Part 60, Subpart UU, <i>“Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture”</i> .	Rule 335-3-10-.02(47) 40 CFR 60.470
<b><u>Emission Standards</u></b>	
1. These sources shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60-minute period, these sources shall not discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall these sources discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)
2. Except for 500 hours during each calendar year, the emissions from Asphalt Storage Tanks 1, 2, 3, 4, 5, 6, 7, 101, 102, 201, 202, and the Wetting Tank shall be vented to the Asphalt Plant Regenerative Thermal Oxidizer (EPN 1).	Rule 335-3-14-.01(1)(g) Rule 335-3-14-.04 (Anti-PSD)

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p>(a) The emissions from Asphalt Storage Tanks 1, 2, 3, 4, 5, 6, 7, 101, 102, 201, 202, and the Wetting Tank shall be vented to the Asphalt Fiber Bed Filter at all times, except during active replacement of fume filter elements, preventative maintenance or power failure.</p>	
<p>3. The emissions from the Sealant/Adhesive Storage Tanks 1 and 2, Sealant/Adhesive Use Tanks 1 and 2, and the Sealant/Adhesive Mix Tank shall be vented to the Sealant/Adhesive Fiber Bed Filter and the Roofing Regenerative Thermal Oxidizer (EPN 17) at all times, except during active replacement of fume filter elements, preventative maintenance or power failure.</p>	<p>Rule 335-3-14-.01(1)(g)</p>
<p>4. The emissions from the Coating Surge Tank shall be vented to the Coating Fiber Bed Filter and the Roofing Regenerative Thermal Oxidizer (EPN 17) at all times, except during active replacement of fume filter elements, preventative maintenance or power failure.</p>	<p>Rule 335-3-14-.01(1)(g)</p>
<p>5. The inlet gas temperature to each fiber bed filter shall not exceed the manufacturer’s recommendation for the equipment.</p>	<p>Rule 335-3-14-.01(1)(g)</p>
<p>6. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, the Permittee shall not cause to be discharged into the atmosphere from any asphalt storage tank exhaust gases with opacity greater than 0 percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device(s) shall not be bypassed during this 15-minute period.</p>	<p>40 CFR 60.472(c)</p>
<p><b><u>Compliance and Performance Test Methods and Procedures</u></b></p>	
<p>1. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of opacity.</p>	<p>Rule 335-3-1-.05</p>
<p>(a) Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, the Permittee must conduct the performance test required by 40 CFR 60.8 to demonstrate compliance with Emission Standard No. 6. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity.</p>	<p>40 CFR 60.474(b) 40 CFR 60.474(c)(5)</p>
<p><b><u>Emission Monitoring</u></b></p>	
<p>1. The Permittee shall conduct instantaneous visual checks of the stacks associated with these sources, at least once per week while these sources are in operation. This check shall be performed by</p>	<p>Rule 335-3-1-.04(1)</p>

Federally Enforceable Provisos	Regulations
<p>a person familiar with Method 9. If instantaneous visible emissions in excess of the opacity limits are noted at any time, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.</p>	
<p>(a) After corrective action has been completed, the Permittee shall conduct another visual check to confirm that the emissions have been eliminated. If visible emissions are observed at the time of the follow-up check, a 12-minute Method 9 observation shall be conducted within 30 minutes of the follow-up check. If any 6-minute average opacity exceeds the applicable limit, additional corrective action shall be taken.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>2. The facility shall continuously monitor the inlet gas temperature to the Asphalt Fiber Bed Filter, the Sealant/Adhesive Fiber Bed Filter, and the Coating Fiber Bed Filter. The monitoring instrument shall have an accuracy of ±15 °C (±25 °F) over its range.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>3. Once per day the facility shall record the inlet gas temperature to the fiber bed filters. If the temperature is outside the manufacturers' recommended operating range(s), maintenance, inspections, and/or corrective action must be initiated within one (1) hour.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>4. At all times the facility must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>5. For Asphalt Storage Tanks 1, 2, 3, 4, 5, 6, 7, 101, 102, 201, 202, and the Wetting Tank, the Permittee must determine the maximum true vapor pressure of the stored volatile organic liquid (VOL) according to the requirements specified below. For storage vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For storage vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.</p>	<p>40 CFR 60.113c(d)</p>
<p>(a) Prior to the initial filling of the storage vessel or to the refilling of the storage vessel with a new VOL, the highest maximum true vapor pressure for the range of anticipated liquids to be stored, including mixtures for which the Permittee can define the range of concentrations for constituents in the mixture or</p>	<p>40 CFR 60.113c(d)(1)</p>

**Federally Enforceable Provisos**

**Regulations**

with a known maximum Reid vapor pressure, must be determined using any one of the following methods:

- i. As obtained from standard reference texts.
  - ii. ASTM D6377-20 (incorporated by reference; see 40 CFR 60.17). Perform the method using a vapor-to-liquid ratio of 4:1, which is expressed in the method as VPCR.
  - iii. ASTM D6378-22 (incorporated by reference; see 40 CFR 60.17). Perform the method using a vapor-to-liquid ratio of 4:1.
  - iv. As measured by an appropriate method as approved by the Department.
- (b) For each affected storage vessel storing a mixture of indeterminate composition or a mixture of unknown variable composition, the initial determination of the vapor pressure required above must be a physical test using one of the methods specified above. Additional physical tests using one of the methods specified above are required at least once every 6 calendar months thereafter as long as the measured vapor pressure remains below the applicable thresholds in 40 CFR 60.110c(c)(1), (c)(2), (d)(1), or (d)(2).

**Recordkeeping and Reporting Requirements**

- 1. The Permittee must submit each applicable notification in 40 CFR 60.7(a), including notifications of the date of construction and the actual date of initial startup of the storage tanks. 40 CFR 60.7(a)
- 2. The Permittee shall provide the Department at least 30 days prior notice of any performance test to demonstrate compliance with 40 CFR Part 60, Subpart UU. 40 CFR 60.8(d)
- 3. The following records shall be maintained in a form suitable for inspection for a period of at least 5 years: Rule 335-3-1-.04(1)
  - (a) The date, time, observer name, and results of each visual check required by Emission Monitoring Proviso No. 1.
  - (b) Each Method 9 observation conducted, documented using the “Visible Emission Observation Form” available in EPA’s Visible Emissions Field Manual or equivalent.
  - (c) Daily inlet gas temperature readings for the fiber filters. This record shall include the date and time of the reading.

Federally Enforceable Provisos	Regulations
<p>(d) Hours during each calendar year (updated monthly) when the Asphalt Plant Regenerative Thermal Oxidizer (EPN 1) is bypassed for downtime/maintenance.</p> <p>(e) For each instance where corrective action is required: records of corrective actions taken, including the source ID, the date and time corrective action was initiated, whether the applicable requirement for timely initiation of corrective action was met, and a specific description of the actions taken and the results of the corrective action(s).</p> <p>(f) Copies of written manufacturers' specifications used to establish temperature parameters for the fiber beds.</p>	
<p>4. The Permittee must keep readily accessible records for the life of the source showing the dimension of each storage vessel subject to 40 CFR Part 60, Subpart Kc and an analysis showing the capacity of the storage vessel.</p>	<p>40 CFR 60.115c(b)</p>
<p>5. The Permittee must submit the results of the performance tests required by 40 CFR 60.8 to the Department within 30 days. The Permittee shall maintain a copy of the performance test report(s) for a period of at least five years.</p>	<p>Rule 335-3-1-.04(1) 40 CFR 60.8(a)</p>
<p>6. Reports to the Department of any required monitoring shall be submitted at least every six (6) months. The reports must be submitted for the periods of January 1 through June 30 and July 1 through December 31. The reports are due no later than July 31 or January 31. All instances of deviations from permit requirements must be clearly identified in the report. All reports must be certified by a responsible official as defined in ADEM Admin. Code r. 335-3-16-.01(1)(y).</p>	<p>Rule 335-3-1-.04(1)</p>

# AIR PERMIT

**PERMITTEE:** OWENS CORNING ROOFING AND ASPHALT, LLC

**FACILITY NAME:** OWENS CORNING PRATTVILLE

**LOCATION:** PRATTVILLE, AUTAUGA COUNTY, ALABAMA

PERMIT NUMBER	DESCRIPTION OF EQUIPMENT, ARTICLE, OR DEVICE
201-0018-X004	<p><b>Material Loading/Surfacing Production Areas:</b></p> <ul style="list-style-type: none"> <li>• Sand Silos #1 and #2 with Baghouses (EPN 18 &amp; 19)</li> <li>• Filler Storage Silos #1, #2 and #3 with Baghouses (EPN 20, 21 &amp; 22)</li> <li>• Granule Unloading/Storage with Baghouses (EPN 23 &amp; 24)</li> <li>• Sand Use Bin with Baghouse (EPN 26)</li> <li>• Prime Granule Use Bin with Baghouse (EPN 27)</li> <li>• Headlap Granule Use Bin with Baghouse (EPN 28)</li> <li>• Roofing Production Building Baghouse (EPN 31)</li> <li>• Granule/Sand Dryer/Separator with Baghouse (EPN 36)</li> <li>• Granule Railcar/Truck Unloading Conveyor (EPN 29)</li> <li>• Fugitive Emissions (EPN 6 &amp; EPN 16)</li> </ul>

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

**ISSUANCE DATE:** **DATE**

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Alabama Department of Environmental Management

**Owens Corning Roofing and Asphalt, LLC**  
**Prattville, ALABAMA**  
**(PERMIT NO. 201-0018-X004)**  
**PROVISOS**

**General Permit Provisos**

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
5. Nothing in this permit or conditions thereto shall negate any authority granted to the Air Division pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
6. This process, including all air pollution control devices and capture systems for which this Permit is issued, shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.
7. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events that exceed **one (1) hour** within **24 hours**. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five (5) years. These records shall be available for inspection.
8. In case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than **one (1) hour**, the intent to shut down shall be reported to the Air Division at least **24 hours** prior to the planned shutdown, unless accompanied by the immediate shutdown of the emission source.
9. In the event there is a breakdown of air pollution control or process equipment in such a manner as to cause increased emission of air contaminants for a period greater than **one (1) hour**, the person responsible for such equipment shall notify the Air Division within **24 hours** and provide a statement giving all pertinent facts, including the duration of the breakdown. The Air Division shall be notified when the breakdown has been corrected.
10. All deviations from requirements within this Permit shall be reported to the Department within **48 hours or two (2) working days** of determining that a deviation occurred. The report will include information regarding the date, time, duration, cause, and any corrective actions or preventative measures that were taken.

11. This Permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the Permit.
12. On completion of construction of the device(s) for which this Permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this Permit.
13. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
14. Each point of emission, which requires testing, will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.
15. The Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.
  - a. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:
    - i. The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
    - ii. A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).
    - iii. A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
    - iv. A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.
  - b. A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.
16. Unless otherwise stated in this Permit or an applicable regulation, all test reports must be submitted to the Air Division within 30 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

17. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific Permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific source is in compliance.
18. Records will be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records will be kept in a permanent form suitable for inspection and will be retained for at least two (2) years following the date of each occurrence.
19. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.
  - a. Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:
    - i. by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
    - ii. by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
    - iii. by paving;
    - iv. by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;
    - v. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.
20. Precautions shall be taken by the Permittee and its personnel to ensure that no person shall ignite, cause to be ignited, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.
21. The Permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.
22. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
23. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.

24. The Permittee shall keep this Permit under file or on display at all times at the site where the facility for which the Permit is issued is located and shall make the Permit readily available for inspection by any or all persons who may request to see it.
25. An annual compliance certification shall be submitted not more than 60 days after the issuance date of the initial major source operating permit:

- a. The compliance certification shall include the following:
  - i. The identification of each term or condition of the permit that is the basis of the certification;
  - ii. The compliance status;
  - iii. Whether compliance has been continuous or intermittent;
  - iv. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);
  - v. Such other facts as the Department may require in order to determine the compliance status of the source.
- b. The compliance certification shall be submitted to:

Alabama Department of Environmental Management  
Air Division  
P.O. Box 301463  
Montgomery, AL 36130-1463

**PROVISOS FOR MATERIAL LOADING AREA AND MATERIAL SURFACING AREA PRODUCTION**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b><u>Applicability</u></b>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, “Control of Particulate Emissions: Visible Emissions”.	Rule 335-3-4-.01
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.02, “Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions.”	Rule 335-3-4-.02
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, “Control of Particulate Emissions – Process Industries – General”.	Rule 335-3-4-.04
4. The facility is subject to the applicable requirements of 40 CFR Part 60, Subpart A, “General Provisions”.	Rule 335-3-10-.02(1) 40 CFR 60.1(a)
5. The mineral handling and storage facility is subject to the applicable requirements of 40 CFR Part 60, Subpart UU, “Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture”. “Mineral handling and storage facility” means the areas in asphalt roofing plants in which minerals are unloaded from a carrier, the conveyor transfer points between the carrier and the storage silos, and the storage silos.	Rule 335-3-10-.02(47) 40 CFR 60.470(a) 40 CFR 60.471
<b><u>Emission Standards</u></b>	
1. These sources shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60-minute period, these sources shall not discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall these sources discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)
2. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, the Permittee shall not cause to be discharged into the atmosphere from any mineral handling and storage facility emissions with opacity greater than 1 percent.	40 CFR 60.472(d)

**Federally Enforceable Provisos**

**Regulations**

**Compliance and Performance Test Methods and Procedures**

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| <p>1. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of opacity, if required.</p> <p>(a) Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, the Permittee must conduct the performance test required by 40 CFR 60.8 to demonstrate compliance with Emission Standard No. 2. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity.</p> | <p>Rule 335-3-1-.05</p> <p>40 CFR 60.474(b)<br/>40 CFR 60.474(c)(5)</p> |
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**Emission Monitoring**

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| <p>1. The Permittee shall conduct instantaneous visual checks of the stacks associated with these sources, at least once per week while these sources are in operation. This check shall be performed by a person familiar with Method 9. If instantaneous visible emissions in excess of the opacity limits are noted at any time, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.</p> <p>(a) After corrective action has been completed, the Permittee shall conduct another visual check to confirm that the emissions have been eliminated. If visible emissions are observed at the time of the follow-up check, a 12-minute Method 9 observation shall be conducted within 30 minutes of the follow-up check. If any 6-minute average opacity exceeds the applicable limit, additional corrective action shall be taken.</p> | <p>Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04(1)</p> |
| <p>2. At all times the facility must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.</p>   | <p>Rule 335-3-1-.04(1)</p>                            |

**Recordkeeping and Reporting Requirements**

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| <p>1. The following records shall be maintained in a form suitable for inspection for a period of at least 5 years:</p> <p>(a) The date, time, observer name, and results of each visual check required by Emission Monitoring Proviso No. 1.</p> <p>(b) Records of each Method 9 observation conducted, documented using the "Visible Emission Observation Form" available in EPA's Visible Emissions Field Manual or equivalent.</p> | <p>Rule 335-3-1-.04(1)</p> |
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**Federally Enforceable Provisos**

**Regulations**

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| <p>(c) For each instance where corrective action is required: records of corrective actions taken, including the source ID, the date and time corrective action was initiated, whether the applicable requirement for timely initiation of corrective action was met, and a specific description of the actions taken and the results of the corrective action(s).</p> <p>2. Reports to the Department of any required monitoring shall be submitted at least every six (6) months. The reports must be submitted for the periods of January 1 through June 30 and July 1 through December 31. The reports are due no later than July 31 or January 31. All instances of deviations from permit requirements must be clearly identified in the report. All reports must be certified by a responsible official as defined in ADEM Admin. Code r. 335-3-16-.01(1)(y).</p> | <p>Rule 335-3-1-.04(1)</p> |
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DRAFT

# AIR PERMIT

**PERMITTEE:** OWENS CORNING ROOFING AND ASPHALT, LLC

**FACILITY NAME:** OWENS CORNING PRATTVILLE

**LOCATION:** PRATTVILLE, AUTAUGA COUNTY, ALABAMA

PERMIT NUMBER	DESCRIPTION OF EQUIPMENT, ARTICLE, OR DEVICE
201-0018-X005	<p><b>Heaters/Boilers – Natural Gas Fired</b></p> <p>35.0 MMBtu/hr Asphalt Preheater controlled by the Direct Fired Thermal Oxidizer (EPN 2)</p> <p>21.0 MMBtu/hr Asphalt Boilers (EPN 3 &amp; 4)</p> <p>10.0 MMBtu/hr Asphalt Tanks Hot Oil Heater (EPN 5)</p> <p>50.0 MMBtu/hr Facility Heater (EPN 11)</p> <p>1.5 MMBtu/hr Front End &amp; Back End Hot Oil Heaters (EPN 12 &amp; 14)</p> <p>9.0 MMBtu/hr Filler Hot Oil Heater and Coating Preheater (EPN 13 &amp; 15)</p> <p>2.0 MMBtu/hr Surface Reclaim Heater (EPN 37)</p>

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

**ISSUANCE DATE:** **DATE**

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Alabama Department of Environmental Management

**Owens Corning Roofing and Asphalt, LLC**  
**Prattville, ALABAMA**  
**(PERMIT NO. 201-0018-X005)**  
**PROVISOS**

**General Permit Provisos**

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
5. Nothing in this permit or conditions thereto shall negate any authority granted to the Air Division pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
6. This process, including all air pollution control devices and capture systems for which this Permit is issued, shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.
7. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events that exceed **one (1) hour** within **24 hours**. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five (5) years. These records shall be available for inspection.
8. In case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than **one (1) hour**, the intent to shut down shall be reported to the Air Division at least **24 hours** prior to the planned shutdown, unless accompanied by the immediate shutdown of the emission source.
9. In the event there is a breakdown of air pollution control or process equipment in such a manner as to cause increased emission of air contaminants for a period greater than **one (1) hour**, the person responsible for such equipment shall notify the Air Division within **24 hours** and provide a statement giving all pertinent facts, including the duration of the breakdown. The Air Division shall be notified when the breakdown has been corrected.
10. All deviations from requirements within this Permit shall be reported to the Department within **48 hours or two (2) working days** of determining that a deviation occurred. The report will include information regarding the date, time, duration, cause, and any corrective actions or preventative measures that were taken.

11. This Permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the Permit.
12. On completion of construction of the device(s) for which this Permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this Permit.
13. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
14. Each point of emission, which requires testing, will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.
15. Unless otherwise stated in this Permit or an applicable regulation, the Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.
  - a. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:
    - i. The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
    - ii. A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).
    - iii. A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
    - iv. A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.
  - b. A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.
16. Unless otherwise stated in this Permit or an applicable regulation, all test reports must be submitted to the Air Division within 30 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

17. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific Permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific source is in compliance.
18. Records will be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records will be kept in a permanent form suitable for inspection and will be retained for at least two (2) years following the date of each occurrence.
19. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.
  - a. Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:
    - i. by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
    - ii. by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
    - iii. by paving;
    - iv. by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;
    - v. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.
20. Precautions shall be taken by the Permittee and its personnel to ensure that no person shall ignite, cause to be ignited, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.
21. The Permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.
22. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
23. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.

24. The Permittee shall keep this Permit under file or on display at all times at the site where the facility for which the Permit is issued is located and shall make the Permit readily available for inspection by any or all persons who may request to see it.
25. An annual compliance certification covering the reporting period from January 1 through December 31 shall be submitted by March 31 each year:
  - a. The compliance certification shall include the following:
    - i. The identification of each term or condition of the permit that is the basis of the certification;
    - ii. The compliance status;
    - iii. Whether compliance has been continuous or intermittent;
    - iv. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);
    - v. Such other facts as the Department may require in order to determine the compliance status of the source.
  - b. The compliance certification shall be submitted to:

Alabama Department of Environmental Management  
Air Division  
P.O. Box 301463  
Montgomery, AL 36130-1463

**PROVISOS FOR PREHEATERS, HEATERS, AND BOILERS**

Federally Enforceable Provisos	Regulations
<b><u>Applicability</u></b>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, “ <i>Control of Particulate Emissions: Visible Emissions</i> ”.	Rule 335-3-4-.01
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.03, “ <i>Control of Particulate Emissions – Fuel Burning Equipment</i> ”.	Rule 335-3-4-.03
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-5-.01(1)(b), “ <i>Control of Sulfur Compound Emissions – Fuel Burning Equipment</i> ”.	Rule 335-3-5-.01
4. The Asphalt Boilers (EPN 3 & EPN 4) are subject to the applicable requirements of 40 CFR Part 60, Subpart Dc, “ <i>Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units</i> ”.	Rule 335-3-10-.02(2)(c) 40 CFR 60.40c(a)
5. The Permittee is subject to the applicable requirements of 40 CFR Part 60, Subpart A, “ <i>General Provisions</i> ”.	Rule 335-3-10-.02(1) 40 CFR 60.1(a)
<b><u>Emission Standards</u></b>	
1. These sources shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60-minute period, these sources shall not discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall these sources discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)
2. Particulate matter (PM) emissions from these sources shall not exceed the amount shown in Table 4-1 in ADEM Admin. Code r. 335-3-4-.03 or the amount given by the equation in ADEM Admin. Code r. 335-3-4-.03(1).	Rule 335-3-4-.03
3. Sulfur dioxide (SO <sub>2</sub> ) emissions for these sources shall not exceed 4.0 lb/MMBtu.	Rule 335-3-5-.01(1)(b)

**Federally Enforceable Provisos**

**Regulations**

**Compliance and Performance Test Methods and Procedures**

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| 1. If testing is required, Method 9 of Appendix A-4 to 40 CFR Part 60 shall be used to determine the opacity of stack emissions.       | Rule 335-3-1-.05 |
| 2. If testing is required, Method 5 of Appendix A-3 to 40 CFR Part 60 shall be used in the determination of PM emissions.              | Rule 335-3-1-.05 |
| 3. If testing is required, Method 6 of Appendix A-4 to 40 CFR Part 60 shall be used in the determination of SO <sub>2</sub> emissions. | Rule 335-3-1-.05 |

**Emission Monitoring**

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|---|---------------------|
| 1. The Permittee shall conduct instantaneous visual checks of the stacks associated with these sources, at least once per week while these sources are in operation. This check shall be performed by a person familiar with Method 9. If instantaneous visible emissions in excess of the opacity limits are noted at any time, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours. | Rule 335-3-1-.04(1) |
| (a) After corrective action has been completed, the Permittee shall conduct another visual check to confirm that the emissions have been eliminated. If visible emissions are observed at the time of the follow-up check, a 12-minute Method 9 observation shall be conducted within 30 minutes of the follow-up check. If any 6-minute average opacity exceeds the applicable limit, additional corrective action shall be taken.                         | Rule 335-3-1-.04(1) |
| 2. At all times the facility must operate and maintain these sources in a manner consistent with safety and good air pollution control practices for minimizing emissions.  | Rule 335-3-1-.04(1) |

**Recordkeeping and Reporting Requirements**

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| 1. The following records shall be maintained in a form suitable for inspection for a period of at least 5 years:<br><br>(a) The date, time, observer name, and results of each visual check required by Emission Monitoring Proviso No. 1.<br><br>(b) Each Method 9 observation conducted, documented using the "Visible Emission Observation Form" available in EPA's Visible Emissions Field Manual or equivalent.<br><br>(c) For each instance where corrective action is required: records of corrective actions taken, including the source ID, the date and time corrective action was initiated, whether the applicable requirement for timely initiation of corrective | Rule 335-3-1-.04(1) |
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Federally Enforceable Provisos	Regulations
<p>action was met, and a specific description of the actions taken and the results of the corrective action(s).</p>	
<p>(d) The total amount of natural gas delivered to the facility during each calendar month.</p>	<p>40 CFR 60.48c(g)(3)</p>
<p>2. The Permittee shall submit to the Department notification of the date of construction and actual startup of the Asphalt Boilers (EPN 3 &amp; EPN 4), as provided in 40 CFR 60.7. The notification shall include the information in 40 CFR 60.48c(a)(1)-(4), as applicable.</p>	<p>40 CFR 60.48c(a)</p>
<p>3. Reports to the Department of any required monitoring shall be submitted at least every six (6) months. The reports must be submitted for the periods of January 1 through June 30 and July 1 through December 31. The reports are due no later than July 31 or January 31. All instances of deviations from permit requirements must be clearly identified in the report. All reports must be certified by a responsible official as defined in ADEM Admin. Code r. 335-3-16-.01(1)(y).</p>	<p>Rule 335-3-1-.04(1)</p>

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# AIR PERMIT

**PERMITTEE:** OWENS CORNING ROOFING AND ASPHALT, LLC

**FACILITY NAME:** OWENS CORNING PRATTVILLE

**LOCATION:** PRATTVILLE, AUTAUGA COUNTY, ALABAMA

<b>PERMIT NUMBER</b>	<b>DESCRIPTION OF EQUIPMENT, ARTICLE, OR DEVICE</b>
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201-0018-X006

One (1) 910 kW (1,220 BHP) Diesel Fired Emergency Generator located at the Asphalt Plant (EPN 10)

One (1) 910 kW (1,220 BHP) Diesel Fired Emergency Generator located at the Roofing Plant (EPN 32)

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

**ISSUANCE DATE:** **DATE**

Alabama Department of Environmental Management

**Owens Corning Roofing and Asphalt, LLC**  
**Prattville, ALABAMA**  
**(PERMIT NO. 201-0018-X006)**  
**PROVISOS**

**General Permit Provisos**

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
5. Nothing in this permit or conditions thereto shall negate any authority granted to the Air Division pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
6. This process, including all air pollution control devices and capture systems for which this Permit is issued, shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.
7. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events that exceed **one (1) hour** within **24 hours**. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five (5) years. These records shall be available for inspection.
8. In case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than **one (1) hour**, the intent to shut down shall be reported to the Air Division at least **24 hours** prior to the planned shutdown, unless accompanied by the immediate shutdown of the emission source.
9. In the event there is a breakdown of air pollution control or process equipment in such a manner as to cause increased emission of air contaminants for a period greater than **one (1) hour**, the person responsible for such equipment shall notify the Air Division within **24 hours** and provide a statement giving all pertinent facts, including the duration of the breakdown. The Air Division shall be notified when the breakdown has been corrected.
10. All deviations from requirements within this Permit shall be reported to the Department within **48 hours or two (2) working days** of determining that a deviation occurred. The report will include information regarding the date, time, duration, cause, and any corrective actions or preventative measures that were taken.

11. This Permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the Permit.
12. On completion of construction of the device(s) for which this Permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this Permit.
13. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
14. Each point of emission, which requires testing, will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.
15. Unless otherwise stated in this Permit or an applicable regulation, the Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.
  - a. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:
    - i. The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
    - ii. A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).
    - iii. A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
    - iv. A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.
  - b. A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.
16. Unless otherwise stated in this Permit or an applicable regulation, all test reports must be submitted to the Air Division within 30 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

17. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific Permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific source is in compliance.
18. Records will be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records will be kept in a permanent form suitable for inspection and will be retained for at least two (2) years following the date of each occurrence.
19. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.
  - a. Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:
    - i. by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
    - ii. by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
    - iii. by paving;
    - iv. by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;
    - v. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.
20. Precautions shall be taken by the Permittee and its personnel to ensure that no person shall ignite, cause to be ignited, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.
21. The Permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.
22. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
23. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.

24. The Permittee shall keep this Permit under file or on display at all times at the site where the facility for which the Permit is issued is located and shall make the Permit readily available for inspection by any or all persons who may request to see it.
25. An annual compliance certification covering the reporting period from January 1 through December 31 shall be submitted by March 31 each year:
  - a. The compliance certification shall include the following:
    - i. The identification of each term or condition of this permit that is the basis of the certification;
    - ii. The compliance status;
    - iii. Whether compliance has been continuous or intermittent;
    - iv. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);
    - v. Such other facts as the Department may require in order to determine the compliance status of the source.

- b. The compliance certification shall be submitted to:

Alabama Department of Environmental Management  
Air Division  
P.O. Box 301463  
Montgomery, AL 36130-1463

**PROVISOS FOR EMERGENCY ENGINES**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b><u>Applicability</u></b>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, " <i>Control of Particulate Emissions: Visible Emissions</i> ".	Rule 335-3-4-.01
2. These sources are subject to the applicable requirements of 40 CFR Part 60, Subpart IIII, " <i>Standards of Performance for Stationary Compression Ignition Internal Combustion Engines</i> ".	Rule 335-3-10-.02(87) 40 CFR 60.4200(a)(2)
3. These sources are subject to the applicable requirements of 40 CFR Part 60, Subpart A, " <i>General Provisions</i> " as listed in Table 8 to 40 CFR Part 60, Subpart IIII.	Rule 335-3-10-.02(1) 40 CFR 60.4218
4. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ, " <i>National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines</i> ". By meeting the requirements of 40 CFR Part 60, Subpart IIII, these sources have no further requirements under Part 63.	40 CFR 63.6585 40 CFR 63.6590(c)(1)
<b><u>Emission Standards</u></b>	
1. These engines shall meet the following opacity standards:	
(a) Except for one 6-minute period during any 60-minute period, the engines shall not discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(a)
(b) At no time shall the engines discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	Rule 335-3-4-.01(1)(b)
2. The engines shall comply with the following emissions standards:	40 CFR 60.4205(b)
(a) Nitrogen oxide (NO <sub>x</sub> ) + non-methane hydrocarbon (NMHC) emissions shall not exceed 6.4 g/kW-hr.	40 CFR 60.4202(a)(2)
(b) Carbon monoxide (CO) emissions shall not exceed 3.5 g/kW-hr.	
(c) Particulate matter (PM) emissions shall not exceed 0.20 g/kW-hr.	

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
3. These engines shall comply with the smoke emission standards in 40 CFR 1039.105.	40 CFR 60.4205(b) 40 CFR 60.4202(a)(2)
4. The Permittee must operate and maintain this source in such a way as to achieve the applicable emission standards throughout its entire life.	40 CFR 60.4206
5. The facility must use diesel fuel that meets the requirements of 40 CFR 1090.305.	40 CFR 60.4207(b)
<b><u>Compliance and Performance Test Methods and Procedures</u></b>	
1. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of the opacity of the stack emissions. Method 9 may only be used during daylight hours by an observer who is currently certified in Method 9.	Rule 335-3-1-.05
2. The Permittee shall demonstrate compliance with Emission Standard No. 2 by purchasing an engine certified to the emission standards. The engine must be installed and configured according to the manufacturer's emission-related specifications.	40 CFR 60.4211(c)
3. If testing is required, the in-use testing procedures in 40 CFR Part 1039, Subpart F shall be used to determine particulate matter (PM), nitrogen oxide (NO <sub>x</sub> ), carbon monoxide (CO), and volatile organic compound (VOC) emissions.	Rule 335-3-1-.05 40 CFR 60.4212(a)
<b><u>Emission Monitoring</u></b>	
1. The Permittee must install a non-resettable hour meter on each unit.	40 CFR §60.4209(a)
2. The Permittee shall comply with the following requirements for the engines:  (a) Operate and maintain the engine according to the manufacturer's emission-related written instructions;  (b) Change only those emission-related settings that are permitted by the manufacturer; and  (c) Meet the requirements of 40 CFR Part 1068, as they apply.	40 CFR 60.4211(a)
3. The engines shall comply with the requirements of 40 CFR §60.4211(f). If an engine is not operated in accordance with 40 CFR §60.4211(f), the engine will not be considered an emergency engine and must meet all requirements for non-emergency engines.	40 CFR 60.4211(f)

**Federally Enforceable Provisos**

**Regulations**

**Recordkeeping and Reporting Requirements**

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|---|----------------------------|
| <p>1. The Permittee must keep records of the operation of the emergency engines in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. The records shall be maintained in a form suitable for inspection and shall be kept on site for a period of five (5) years.</p> | <p>40 CFR 60.4214(b)</p>   |
| <p>2. Reports to the Department of any required monitoring shall be submitted at least every six (6) months. The reports must be submitted for the periods of January 1 through June 30 and July 1 through December 31. The reports are due no later than July 31 or January 31. All instances of deviations from permit requirements must be clearly identified in the report. All reports must be certified by a responsible official as defined in ADEM Admin. Code r. 335-3-16-.01(1)(y).</p>             | <p>Rule 335-3-1-.04(1)</p> |

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