



Asphalt Roofing Recycling Committee
DoubleTree Washington Dulles Airport
Herndon, Virginia
Tuesday, September 15, 2026, 1:00 PM – 2:15 PM EDT

Chairs: Laurand Lewandowski, Owens Corning and Darren Rafter, IKO Industries Ltd.

Topic	Support Materials
Call to Order - Roll Call - Antitrust Reminder - Agenda Review and Approval - Approval of Minutes - Welcome First Time Attendees	00 – Antitrust Quick Reference 00 – Minutes 16 June 2026
Collaboration with Other Stakeholders - Estes - Construction & Demolition Recycling Association - Life Cycle Assessment (LCA) for Recycled Asphalt Shingles (RAS) <i>Review Results and discussion of the preliminary data</i> - Recycled Asphalt Shingle Forum – Manufacturer Panel - Caltrans Update - Association of Modified Asphalt Producers Activities - Asphalt Institute – Roofing Technical Advisory Committee	01 – Initial RAS LCA Results CDRA Forum: October 13-15 in Raleigh, NC 02 – CalTrans Update
Collaboration with ARMA Committees on Sustainability- Estes - Technical Committee - Sustainability Task Force - Timeline for PCR, LCA, EPDs - Embodied Carbon - Government Affairs Committee - Health, Safety & Environment Committee	
Monitor Regulatory and Legislative Space - Higginbotham Overview and Report on Significant Developments	03 – HR 8748 Letter
Task Force and Working Group Updates	
Low-slope Asphalt Roofing Recycling Task Force – Wadding/Estes Task Force Status and Plans <i>Share suggestions for initiatives.</i>	
Measurement Working Group – Kirby/Estes Status Report <i>Feedback from how the Surveys were received</i>	04 – Post-consumer Asphalt Roofing Diversion Survey
Inform and Educate (ARMA Members and the Public) – Wurst/Estes 2027 Asphalt Roofing Recycling Forum Working Group Report	

<i>Working group and event update.</i>	
Other Updates	
Action Item Review • Next Meeting – December 1, 2026	
Adjournment	

The use of AI-based notetaking, transcription, or recording tools is not permitted during this meeting.



To: ARMA Members and Staff

From: Reed Hitchcock, Executive Vice President

Re: Antitrust Compliance - Quick Reference

The Asphalt Roofing Manufacturers Association (“ARMA” or “Association”) has in effect an Antitrust Compliance Policy (“Policy”). The Policy is intended for the guidance of ARMA member company representatives, officers, directors and staff, when engaged in any activity conducted in the name of, or on behalf of, ARMA. All such persons are expected to be familiar with the Policy and to follow it both in letter and in spirit.

The following cautionary statements are taken from the full Policy and are intended to be used as a quick reference tool. This document is not a substitute for the full Policy, which is available from the Association’s office and with which all are expected to be conversant. At all Association meetings and events, including informal gatherings before, during or following such meetings and events, ARMA members, their representatives and guests will not discuss any of the following competitively sensitive topics:

1. Current or future prices, price levels, costs or profit margins.
2. What is a fair or rational profit level.
3. Actions which could lead to standardizing or stabilizing prices.
4. Pricing or bidding methodologies or procedures.
5. Pricing practices or strategies, including methods, timing or implementation of price changes.
6. Whether or how prices, warranties or other terms of sale are advertised.
7. Cash or any other discounts, rebates, service charges or other terms and conditions of sale.
8. Credit terms.
9. Product warranty terms.
10. Actual, planned or projected production, production capacity or capacity utilization.
11. Projected demand.
12. Confidential company plans for new products.
13. Dividing or allocating geographic or product markets or customers.
14. Whether or on what terms to do business with a supplier, competitor or customer.
15. Whether or on what terms to solicit other companies’ employees for employment.
16. The business practices of individual firms.
17. The validity of any patent or the terms of any patent license.
18. Ongoing litigation, unless being reported upon by ARMA’s General Counsel or discussed appropriately at ARMA’s Counsel Forum.

We hope the above rules will be helpful as you participate in ARMA meetings and other activities. If you have any questions about antitrust compliance, do not hesitate to contact ARMA’s General Counsel:

C. Michael Deese
ARMA General Counsel Pannos Law, LLC
Tel: (847) 954-7178
Email: michael.deese@pannos-law.com



Asphalt Roofing Manufacturers Association
Asphalt Roofing Recycling Committee (ARRC)
Committee Meeting Minutes
Tuesday, June 16, 2026

Attendance

Maure Creager, CertainTeed LLC
Stephanie Daniels, Atlas Roofing Corporation
Eileen Dutton, Malarkey Roofing
Husnu Kalkanoglu, SOPREMA
Allan Lawrence, IKO Industries
Laurand Lewandowski, Owens Corning
Jonathon MacBride, Specialty Granules
Alex Rojas, PABCO Roofing Products
Darren Rafter, IKO Industries
Julie Tinklenberg, CertainTeed LLC
Trey Wurst, Crafc

ARMA Staff & Management Team

Reed Hitchcock, ARMA Executive Vice President
Aaron R. Phillips, ARMA Vice President of Technical Services
Heather Estes, ARMA Vice President of Technical Services
Miriam Higginbotham, ARMA HSE Director
Shelby Smiley, ARMA Associate Director
Karin Travitz, ARMA Director of Meetings
Lisa Christie, ARMA Membership Coordinator
August Olon, ARMA Marketing & Communications Coordinator

Call to Order

Lewandowski called the meeting to order at 1:03 PM ET. Christie conducted roll call and reviewed the ARMA Antitrust Compliance Policy. Lewandowski inquired about any first-time attendees.

Motion to approve the agenda as presented (Daniels/Wurst) carried.

Motion to approve the meeting minutes from March 24, 2026 as presented (Wurst/Lawrence) carried.

Update From the Board

Asphalt Roofing Recyclers Survey

Estes reported that the ARMA Board of Directors met virtually on May 19, 2026 and discussed the asphalt roofing recyclers survey developed through the Measurement Working Group. The Board of Directors requested that discussion of the survey be postponed until the November in-person meeting to allow for broader discussion of ARMA's aspirational recycling goal and sustainability priorities. Estes emphasized the need to communicate committee and working group activities to Board of Director representatives so that companies can align internal positions ahead of the November discussion. Estes reported that the Sustainability Task Force (STF) will meet during the ARMA summer meetings to discuss the STF mission and sustainability priorities.

Collaboration with Other Stakeholders

Life Cycle Assessment for Recycled Asphalt Shingle (RAS) Project Report - Update

Estes provided an update on the Life Cycle Assessment (LCA) for Recycled Asphalt Shingles project, a collaboration among ARMA, National Asphalt Pavement Association (NAPA), and Construction & Demolition Association (CDRA). ARMA continues to meet regularly with CDRA and WAP Sustainability. Approximately 50% of recycler data has been received, and the data collection deadline has been extended to June 30, 2026 to allow for additional participation. WAP Sustainability has begun modeling and remains on track for project completion within six to seven months. A formal project update may be provided during the CDRA Shingle Recycling Forum in October 2026.

Construction & Demolition Recycling Association Shingle Recycling Forum – Manufacturer Panel

Estes provided an update on the CDRA Shingle Recycling Forum, scheduled for October 13–15 in Raleigh, North Carolina. The forum agenda has been developed but has not yet been publicly released. The program will include a manufacturer panel titled “A Perspective from Shingle Manufacturers on Recycled Asphalt Shingles,” which Estes will moderate. Several ARMA members are expected to participate, and Estes will begin developing questions for the panel. Members were encouraged to share ideas for discussion topics.

Petersen Asphalt Research Conference – Roofing Session

Lewandowski reported that the Petersen Asphalt Research Conference brochure has been released and includes the schedule for the 2026 special roofing session. The session will include several presentations from ARMA members and related industry participants. Members were encouraged to attend as the conference provides a valuable opportunity to engage technical representatives from the asphalt paving industry on recycled asphalt shingle (RAS)-related topics.

Monitor Regulatory and Legislative Space

Overview and Report on Significant Developments

Higginbotham highlighted federal bills related to recycling access, reclaimed asphalt pavement, and lower-emission materials research, including a recently introduced *Surface Transportation Research and Development Act of 2026* (US HR 8748). Updates were also provided on California Air Resources Board’s (CARB) embodied carbon program. Members discussed the pending Senate hearing and the potential next steps for the bill (CA AB 1704), which would roll back aspects of the program. Higginbotham also reviewed Canadian Board for Harmonized Construction Codes (CBHCC) policy guidance for 2030 codes to include technical requirements to minimize excessive embodied carbon greenhouse gas (GHG) emissions, noting that the ARMA Board approved Technical Committee engagement with the Canadian Embodied GHG Emissions Task Group. Additional updates covered pending Buy Clean bills, C&D waste recycling bills, asphalt recycling bills, and packaging EPR measures, including coalition efforts to seek exemptions for construction material packaging. A written regulatory report will be distributed with the meeting minutes.

Low-slope Asphalt Roofing Recycling Task Force

Status Report

Estes reported that the Low-slope Asphalt Roofing Recycling Task Force last met on March 4, 2026 and will meet again on July 8, 2026. The previous meeting focused on current research related to low-slope roof recycling and European activity in this area. Members with interest in low-slope recycling were encouraged to participate in the upcoming meeting.

Measurement Working Group

Status Report

Estes reported that the Measurement Working Group last met on May 14, 2026 and continues to work on survey-related activities. The group will meet again on August 6, 2026 to review survey progress and feedback. The group has also started exploring Canadian provincial Ministries of Transportation to identify potential data sources related to RAS use.

Vancouver Capital Regional District (CRD) Waste Management Report

Phillips provided an update on the Vancouver Capital Regional District (CRD) Waste Management Report, which the Measurement Working Group discovered as a potential diversion data source. The district reported diversion of 2,500

metric tons of asphalt shingles in 2024, increasing to 6,527 metric tons in its latest report. Phillips noted that while the district has not disclosed how or where the material is being diverted, the annual reporting may provide useful data for ARMA's RAS measurement efforts.

Inform and Educate (ARMA Members and the Public)

Asphalt Roofing Recycling Forum

Estes led a discussion on planning for the 2027 Asphalt Roofing Recycling Forum. Members participated in polling questions on the timing, audience, format, industry shifts, and volunteer capacity for the event. Discussion included whether the forum should be held in Q3 or Q4 of 2027, how to better define the target audience, and whether the format should remain a one-day virtual event or include more interactive elements such as breakout discussions. Members also discussed potential audiences, including roofing industry representatives, contractors, recyclers, regulators, and end users of recycled materials. Estes noted that the planning process is beginning and that ARMA will seek volunteers to chair the planning task force and support the planning effort. Wurst and Lewandowski volunteered to assist with the forum.

Other Updates

There were no other updates.

Assignments & Action Item Review

Next Meeting – September 15, 2026, Summer Committee Meetings, Herndon, VA (In-Person)

Adjournment

Motion to adjourn the meeting (Dutton/Daniels) carried at 2:11 pm ET.



Caltrans RAS Project Update

Asphalt Roofing Recycling Committee

Measurement Working Group

August 6, 2026

Topic: Update on the use of Recycled Asphalt Shingles (RAS) in California Roadways	Resources
CalTrans Update • Points of Contact: Tigi Thomas (previously Tom Pyle and Cathrina Barros) • Projects: ○ January 2023 – RAP and RAS in HMA Pilot Project on ELD 49 (University of California Pavement Research Center for Caltrans) • <i>Have any additional pilot studies been undertaken?</i> ○ SBD 215 Pilot Project in San Bernardino County ○ SJ 26 Pilot Project on State Route 26 in San Joaquin County (2022) ○ Recycling Agents Study	ELD 49: https://dot.ca.gov/-/media/dot-media/programs/maintenance/documents/office-of-asphalt-pavements/rap-and-ras-in-hma-pilot-project-on-eld49-a11y.pdf SBD 215: https://ideas.repec.org/p/cdl/itsdav/qt35m230ss.html SJ 26: https://escholarship.org/content/qt8bm2k0t9/qt8bm2k0t9.pdf Recycling Agents Study: https://escholarship.org/content/qt9gn079w4/qt9gn079w4.pdf
Update • January 2026: RAP and RAS in HMA Pilot Project on SJ 26 ○ Authors: John Harvey, Jeff Buscheck, Justin Yu (UC Davis) ○ Test sections with: ▪ RAP: 25% - 40% ▪ A section with 25% RAP and 3% RAS ▪ Control mix: no RAP or RAS • Results ○ All mixes met the high- and intermediate-temperature performance grade specifications ○ Some mixes did not meet the low-temperature performance grade specification or IDEAL cracking tolerance requirements (3% RAS) ○ Applicability of Delta Tc to polymer-modified binder mixtures ○ Results from laboratory testing of plant-produced materials ○ Results from quality assurance samples collected during construction	Article: https://www.ucprc.ucdavis.edu/news/recently-published-rap-and-ras-hma-pilot-project-sj-26-material-testing-observations-and
Why Does the Matter? • Did the results of that project lead to any changes in acceptance of RAS in California? ○ <i>No, due to cracking index deficiencies</i>	
Next Steps • Reach out to Caltrans to stay engaged on future studies • Contact UC Davis	



August 18, 2026

House Committee on Transportation and Infrastructure
U.S. House of Representatives
2165 Rayburn House Office Building
Washington, DC 20515

RE: Support for US HR 8748, *Surface Transportation Research and Development Act of 2026*, and Inclusion of Recycled Asphalt Products

Dear Chair Graves and Honorable Members of the Committee on Transportation and Infrastructure:

The Asphalt Roofing Manufacturers Association (ARMA) writes in support of provisions in [US HR 8748](#), the *Surface Transportation Research and Development Act of 2026*, which calls for the Secretary of Transportation to develop a *Strategy on Reclaimed Asphalt Pavement*, “to encourage the standardization and utilization of reclaimed asphalt pavement on the nations roadways and ensure asphalt mixture quality does not decrease as a result of such utilization.”

ARMA is a trade association representing North America’s asphalt roofing manufacturing companies and their raw material suppliers. Our members account for approximately 90% of North American production of asphalt shingles and asphalt low-slope roof membrane systems.¹ ARMA supports responsible, economically feasible, and sustained circular economy options to recycle asphalt-based roofing materials, including use of recycled asphalt shingles (RAS) into asphalt paving mixes. ARMA urges that US HR 8748 be amended, so that the provisions on development of a *Strategy on Reclaimed Asphalt Pavement* are expanded to include other recycled asphalt products, such as a recycled asphalt shingles (RAS).

In keeping with the spirit of US HR 8748, which encourages consultation with “private sector entities that produce asphalt materials,” ARMA offers itself as a resource on the merits of utilizing RAS in asphalt paving mixtures, including considerations of feasibility, cost savings, and reduced embodied carbon benefits from incorporation of RAS in asphalt paving.

¹ Additional information about ARMA’s mission and activities can be found on its website, <https://asphaltroofing.org/about-arma/about-us/>.



Please reach out if we can be of assistance in this effort. Feel free to contact me at rhitchcock@asphaltroofing.org.

Sincerely,

A handwritten signature in black ink, appearing to read "Reed Hitchcock". The signature is fluid and cursive, with a large initial "R" and "H".

Reed Hitchcock
Executive Vice President
Asphalt Roofing Manufacturers Association

ANNUAL SURVEY OF POST-CONSUMER ASPHALT ROOFING DIVERSION FROM LANDFILL BY ASPHALT ROOFING MANUFACTURING COMPANIES

ARMA STATEMENT ON RECYCLING OF ASPHALT ROOFING MATERIALS

The industry aspires to reduce landfill disposal of asphalt-based roofing materials to 50% by 2035 and to approach 0% by 2050.

To accomplish these goals, ARMA will foster and promote responsible, economically feasible, and sustainable circular economy options to recycle asphalt-based roofing materials and enhance the long-term viability of asphalt roofing as the preferred roofing material.

PURPOSE OF SURVEY

The Asphalt Roofing Manufacturers Association (ARMA) tracks progress relative to the ARMA Statement on Recycling of Asphalt Roofing Materials, which is shown above. This survey is used to collect data on asphalt roofing manufacturer recycling initiatives where unprocessed asphalt roofing materials are (1) received by the manufacturer or a designee, (2) processed by the manufacturer or a designee, and (3) reused by the manufacturer or sent to another company for use. The result is diversion of post-consumer asphalt roofing materials from landfill disposal through the efforts of an asphalt roofing manufacturer. ARMA collects this information as one component of diversion to be added to other components to estimate an annual diversion rate.

HANDLING OF INFORMATION PROVIDED

The choice to provide data requested by this survey is completely voluntary, but each asphalt roofing manufacturer is encouraged to submit the requested information to ensure an accurate estimate of post-consumer asphalt roofing materials diverted from landfill disposal through asphalt roofing manufacturer initiatives. Upon completion, the survey is sent to [REDACTED], a third-party which combines all received data and then provides the aggregated results to ARMA for use in determining progress with respect to the ARMA Statement on Recycling Asphalt Roofing Materials.

GUIDELINES

Report post-consumer asphalt roofing materials that have been diverted from landfill disposal via use in another product. If the diversion process converts less than 100% of the received materials, only report that quantity of received material that has been incorporated into another product.

Report materials that have been collected and are in stockpiles. This includes materials stored in stockpiles prior to processing, at an intermediate processing stage, or at the end of processing but prior to incorporation into another product.

INSTRUCTIONS

1. Complete and submit this survey by [REDACTED].
2. Data shall represent quantities from all company initiatives during the previous calendar year.
3. Report steep-slope and low-slope quantities separately.
4. Report all data in short tons (i.e., one short ton = 2000 pounds).
5. Complete only those entries applicable to your initiatives. Use a "n/a" in cells for which you have no data to provide. Enter a "0" if the item is applicable but the annual quantity is zero.
6. Submit the completed survey to: [REDACTED]

**ANNUAL SURVEY OF POST-CONSUMER ASPHALT ROOFING DIVERSION
FROM LANDFILL BY ASPHALT ROOFING MANUFACTURING COMPANIES**

ASPHALT ROOFING MANUFACTURER POST-CONSUMER ASPHALT ROOFING DIVERSION DATA COLLECTION SURVEY		
Company Code:		
Survey Completed By:		
Data for Calendar Year:	2024	
QUANTITIES OF POST-CONSUMER ASPHALT ROOFING MATERIALS DIVERTED FROM LANDFILL (used, not stockpiled)	Steep-slope Roofing Products (tons)	Low-slope Roofing Products (tons)
If possible, separate the quantities reported as diverted from landfill into the following end-use categories	Steep-slope Roofing Products (tons)	Low-Slope Roofing Products (tons)
Reused in the Manufacture of Asphalt Roofing Products		
Reused in the Production of Asphalt Paving Mixtures		
Reused in Some Other Fashion (please describe)		
QUANTITIES OF POST-CONSUMER ASPHALT ROOFING MATERIALS STOCKPILED AT END OF REPORTING YEAR (collected, but not diverted)	Steep-slope Roofing Products (tons)	Low-slope Roofing Products (tons)