

ARMA Technical Affairs Committee

Technical Affairs Committee (TAC)

Co-Chair: Jean-François Côté, SOPREMA, Inc.

Vice-Chair: Kirk Goodrum, Siplast, Inc.

Co-Chair: Greg Keeler, Owens Corning

ARMA Committee Meeting

11 September 2019



TAC - Mission

To provide the latest guidance documents on asphalt roofing best practices, advance industry sustainability initiatives, and develop programming and technical information on issues of importance to the asphalt roofing industry.



TAC - Structure

ARMA Technical Affairs Committee

Co-Chair: Jean-François Côté, SOPREMA, Inc.

Vice-Chair: Kirk Goodrum, Siplast, Inc.

Co-Chair: Greg Keeler, Owens Corning

Staff Liaison: Chadwick Collins, Director of Technical Services

ARMA Ventilation Task Force

Chair: Paul Scelsi,
Air Vent, Inc.

ARMA Meeting Education Task Force

Chair: Michelle Benatti,
Firestone

ARMA Sustainability Task Force

Chair: Jean-François Côté,
SOPREMA, Inc.

ARMA Asphalt Shingle Recycling Task Force

Chair: Ana Meyer,
GAF

ARMA Technical Review Task Force

Chair: Lynn Picone,
GAF

Sustainability Task Force Update

Sustainability Task Force (STF)

Chair: Jean-François Côté, SOPREMA, Inc.



Sustainability Task Force Update

Mission:

To coordinate the Association's sustainability initiatives, including the development of asphalt industry Product Category Rules (PCRs), Life Cycle Assessments (LCAs), and Environmental Product Declarations (EPDs).



Sustainability Task Force Update

PRODUCT CATEGORY RULES FOR PREPARING
AN ENVIRONMENTAL PRODUCT DECLARATION
FOR PRODUCT GROUP



PCR	VERSION ADOPTION	VALIDITY PERIOD
	JULY 2014	JUNE 2019

Asphalt Shingles, Built-up Asphalt Membrane Roofing and Modified Bituminous Membrane Roofing

The product group includes asphalt shingles applied over underlayment, and low-slope roofing assemblies consisting of various combinations of factory-produced asphalt-saturated/coated base sheets, ply sheets and cap sheets together with specified viscous asphalt coatings, adhesives and surfacings.


REFERENCED PCR:

The Norwegian EPD Foundation (EPD-Norge) PCR for "Roof Waterproofing", NPCR 22, issued October 12, 2012

Product Category Rules expired June 2019. ARMA has contracted with UL to be our program operator to renew and revise our PCR.



Product Category Rule



Product Category Rule (PCR) Guidance
for Building-Related Products and Services

**Part B: Asphalt Shingles, Built-up
Asphalt Membrane Roofing and
Modified Bituminous Membrane
Roofing EPD Requirements**

www.ul.com



History

<p>UL for Asphalt Roofing with ISO 21902 2017, UL ASTM PCR for Asphalt Built Membrane Roofing and Membrane Roofing. This UL PCR aligns with international standards and allows for EPDs which are global in scope.</p>	<p>July 17, 2019</p>
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7 years, set to expire in July 17, 2024.


Introduction and Acknowledgements

Rules (PCR) were developed to address the product specific rules
for (Declarations (EPD)) for asphalt shingles, built-up asphalt
membrane roofing products, and hot-applied rubberized asphalt
throughout this PCR as "asphalt roofing products". When used to self-
declare a "sub-category PCR."

Development of this PCR include:

- Asphalt Roofing Systems, built-up on behalf of the Asphalt Roofing
Systems, UL Environment, October 2015.
- Asphalt Membrane, Cold Adhesive, Environmental Product Declaration,
UL Environment, October 2015.
- Asphalt Membrane, Cold Adhesive, Environmental Product Declaration, Asphalt Roofing
Systems, UL Environment, October 2015.
- Asphalt Membrane, Torch Applied Environmental Product Declaration,
UL Environment, October 2015.
- Asphalt Membrane, Hot Asphalt, Environmental Product Declaration,
UL Environment, October 2015.
- Asphalt Membrane, Hot Asphalt, Environmental Product Declaration, Asphalt
Roofing Systems, UL Environment, October 2015.
- Asphalt Membrane (Installation: Self Adhesive) Environmental Product
Declaration, UL Environment, October 2015.
- Asphalt Membrane (Torch Application) Environmental Product
Declaration, UL Environment, October 2015.
- Asphalt Shingles, Built-up Asphalt Membrane Roofing and Modified
Asphalt Shingles, UL Environment, July 2014.
- Asphalt Shingles, Built-up Asphalt Membrane Roofing and Modified
Asphalt Shingles, UL Environment, July 2014.
- Asphalt Shingles, Built-up Asphalt Membrane Roofing and Modified
Asphalt Shingles, UL Environment, July 2014.
- Asphalt Shingles, Built-up Asphalt Membrane Roofing and Modified
Asphalt Shingles, UL Environment, July 2014.

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Factors Derived from LCA

Table 1: Environmental Indicators

ENVIRONMENTAL PROCESS STAGE	USE STAGE					END-OF-LIFE STAGE				RECYCLED AND LOW CARBON CEMENT	ADDRESS RELEVANT LCA	
	A4	A5	B1	B2	B4	B5	C1	C2	C4			
Asphalt Membrane												
Asphalt Shingles												

UL Environment 2019

EPD French Translations



- French Translations finished based on feedback from members
- Budget approved \$4000; final invoice \$3030.00
- Translations are inline with EPDs
- UL Spot Quote to verify translations
 - \$7350.00
 - Only heard from 3 members in regard to UL Quote

Asphalt Shingle Recycling Task Force

Asphalt Shingle Recycling Task Force (ARTF)

Chair: Ana Meyer, GAF



Asphalt Shingle Recycling Task Force

Task Force Chartered in November 2008 to:

- Focus on the recycling of post consumer shingle tear offs-discussed modifying in 2009 to include low slope but not action take.
- Monitor the issue for members and share useful information with key groups.
- Support the shingle recycling forums and www.shinglerecycling.org



Asphalt Shingle Recycling Task Force

- [ARTF Primer](#)

Research Proposal

Research Proposal Outline

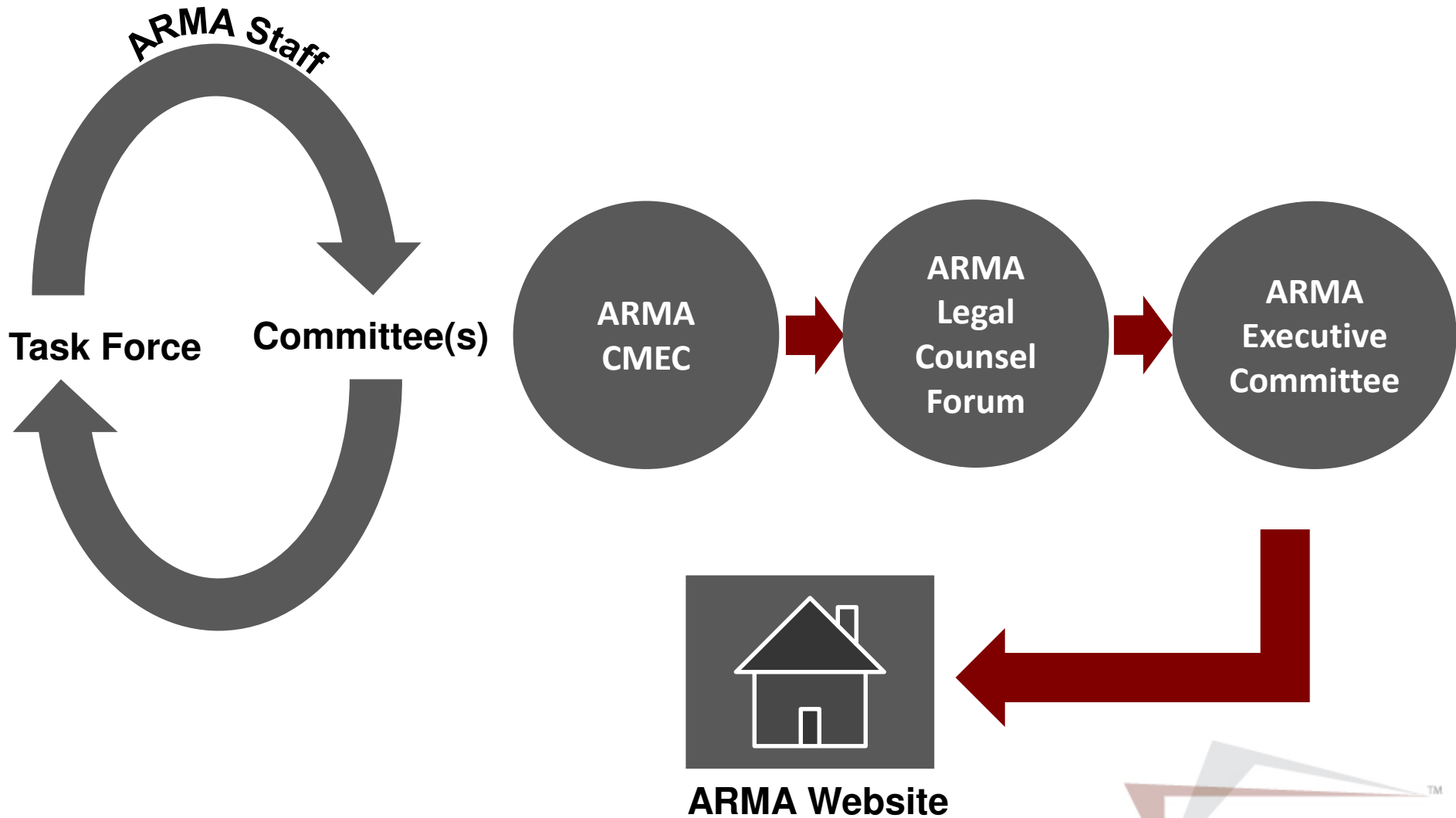
Technical Review Task Force

Technical Review Task Force (TRTF)

Chair: Lynn Picone, GAF



Technical Review Process



Technical Review Task Force Update

Purpose: The publication review process aims to bring existing publications in line with the revised ARMA Residential Roofing Manual

The following bulletins have been reviewed and approved by the Executive Committee.

- Effects of Ponding Water
- Ventilation and Moisture Control for Residential Roofing

The following bulletins have been returned by the Executive Committee for further revision.

- Effects of Contaminants on Modified Bitumen Roofing



Technical Bulletins

Priority	ARMA Technical Bulletins or Publications	Steep Slope / Low Slope (S/L)	Tech Bulletin / Publication (T/P)	Res (R), Mod Bit (MB), Built-up (B), eBookstore	Current Website Date	Current PDF Date
High	Cold Weather Application Recommendations for Modified Bitumen Roofing	L	T	MB	10-May-17	No Date
High	Self-Adhesive Modified Bituminous Roofing Membranes	L	T	MB	10-May-17	No Date
High	The Effects of Greases, Oils and Chemicals on Modified Bitumen Sheet Materials	L	T	MB	10-May-17	May-94
High	Residential Asphalt Roofing Manual: Design and Application Method	S	P	eB		
High	Application of Asphalt Shingles to Decks Installed over Insulation or Radiant Barriers	S	T	R	15-Nov-17	No Date
High	Asphalt Shingle Recycling FAQs	S	T	R	5-May-17	Sep-14
High	Asphalt Shingle Recycling Do's and Don'ts	S	T	R	5-May-17	Sep-14
Medium	ARMA Lightweight Structural Concrete Roof Decks Statement	L	T	MB,B	10-May-17	No Date
Medium	Decking Recommendations for Built-Up Roofing and Modified Bitumen Membranes	L	T	MB,B	10-May-17	Jul-14
Medium	Effects of Roof Color and Solar Reflectance on the Accumulation of Moisture in Roof Systems	L	T	MB	10-May-17	Sep-14
Medium	VOC Considerations for Asphalt Roofing	L	T	MB,B	9-May-17	Sep-14
Medium	Coating of Asphalt Shingles After Installation	S	T	R	10-May-17	Jun-14
Low	Photovoltaic Systems and Low-slope Commercial Roofs	L	T	MB,B	10-May-17	Sep-14
Low	Water Soluble Residue from Asphalt Roofing Products ("Tobacco Juicing")	L	T	R,MB	10-May-17	No Date
Low	When Does a Shingle Comply with ASTM D3462?	S	T	R	10-May-17	No Date

- ✓ Revised bulletins on website
- Additional work is needed
- Bulletins submitted to Counsel Forum or ARMA Staff
- Detail to be discussed today

Technical Review Task Force

- [Residential Asphalt Roofing Manual](#)

Technical Review Task Force

- To Be Developed
 - New Bulletin related to Ventilation
 - Supplemental bulletin for ASTM D 7158

Technical Review Task Force

Questions?



Meeting Education Task Force Update

Meeting Education Task Force (METF)

Chair: Michelle Benatti, Firestone Building Products



Ventilation Task Force Update

ARMA Ventilation Task Force (VTF)

Chair: Paul Scelsi, Air Vent, Inc.



ARMA Technical Affairs Committee

Questions?

