

ATAS INTERNATIONAL, INC.

SRI, Total Solar Reflectance and Thermal Emittance Measured on ATAS Materials

Revised 11/5/14

Category	ATAS No.	Name	Description	Total Solar Reflectance (ASTM E903 or C1549)		Thermal Emittance (ASTM C1371 or ASTM E408)	Initial Solar Reflectance Index (SRI) (ASTM E1980)	Meets ENERGY STAR®*			Meets LEED® 2009 Credit 7.2 Heat Island Roof	Listed by CRRC
				Initial	3-Year			Steep Slope	Low Slope	Listed by ENERGY STAR		
Painted	629	Char Brown	Low Gloss	0.35	---	0.89	38	Yes**			+++	
Painted	24	Antique Patina	Std. Gloss	0.26	0.26	0.86	25	Yes		++		
Painted	10	Ascot White	Std. Gloss	0.77	---	0.88	96	Yes		++	+++	Yes
Painted	02	Black	Std. Gloss	0.05		0.88	-1					
Painted	26	Bone White	Std. Gloss	0.70	0.69	0.87	85	Yes	Yes	++	+++	Yes
Painted	25	Boysenberry	Std. Gloss	0.28	0.25	0.85	27	Yes		++		Yes
Painted	17	Brite Red	Std. Gloss + Clear Coat	0.37	0.35	0.86	39	Yes**			+++	
Painted	31	Champagne	Std. Gloss	0.55	0.49	0.79	62	Yes		++	+++	
Painted	62	Charcoal Grey	Std. Gloss	0.28	---	0.86	27	Yes**				
Painted	04	Chocolate Brown	Std. Gloss	0.27	---	0.85	25	Yes**				
Painted	01	Classic Bronze	Std. Gloss	0.09	---	0.85	2					
Painted	05	Concord Cream	Std. Gloss	0.65	0.68	0.85	78	Yes	Yes	++	+++	
Painted	23	Coppertone	Std. Gloss	0.50	0.51	0.86	57	Yes		++	+++	Yes
Painted	13	Dove Grey	Std. Gloss	0.51	---	0.84	58	Yes		++	+++	
Painted	11	Forest Green	Std. Gloss	0.29	---	0.87	29	Yes		++	+++	Yes
Painted	27	Hartford Green	Std. Gloss	0.25	0.26	0.85	23	Yes		++		
Painted	30	Hemlock Green	Std. Gloss	0.30	0.33	0.86	30	Yes		++	+++	
Painted	03	Medium Bronze	Std. Gloss	0.32	---	0.85	33	Yes**			+++	
Painted	22	Mint Green	Std. Gloss	0.35	0.38	0.86	37	Yes		++	+++	
Painted	08	Mission Red	Std. Gloss	0.32	0.32	0.87	33	Yes		++	+++	
Painted	12	Patina Green	Std. Gloss	0.43	0.41	0.85	47	Yes		++	+++	
Painted	15	Rawhide	Std. Gloss	0.55	0.51	0.85	64	Yes		++	+++	
Painted	07	Redwood	Std. Gloss	0.21	---	0.85	18					
Painted	18	Regal Blue	Std. Gloss	0.25	---	0.84	23	Yes**				
Painted	16	Rocky Grey	Std. Gloss	0.28	---	0.88	29	Yes		++	+++	Yes
Painted	06	Sandstone	Std. Gloss	0.57	0.55	0.85	66	Yes		++	+++	
Painted	14	Siam Blue	Std. Gloss	0.34	0.28	0.85	35	Yes		++	+++	
Painted	09	Sierra Tan	Std. Gloss	0.35	0.34	0.87	37	Yes		++	+++	Yes

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				Initial	3-Year			Steep Slope	Low Slope	Listed by ENERGY STAR		
Painted	28	Silversmith	Std. Gloss	0.47	0.54	0.81	51	Yes		++	+++	
Painted	21	Slate Blue	Std. Gloss	0.31	0.28	0.86	31	Yes		++	+++	
Painted	20	Slate Grey	Std. Gloss	0.37	0.35	0.85	39	Yes		++	+++	Yes
Painted	19	Teal	Std. Gloss	0.26	---	0.88	26	Yes		++		Yes
Painted Americana Classic	AS	Asheland Slate	Std. Gloss + Clear Coat	0.44	---	0.83	48	Yes**			+++	
Painted Americana Classic	BS	Baja Slate	Std. Gloss + Clear Coat	0.27	---	0.83	25	Yes**				
Painted Americana Classic	QS	Quarry Slate	Std. Gloss + Clear Coat	0.31	---	0.84	31	Yes**			+++	
Painted Americana Classic	WS	Willow Slate	Std. Gloss + Clear Coat	0.30	---	0.83	29	Yes**			+++	
Painted Americana Classic	BT	Beech Tree	Std. Gloss + Clear Coat	0.38	---	0.84	40	Yes**			+++	
Painted Americana Classic	SS	Shaded Spruce	Std. Gloss + Clear Coat	0.25	---	0.83	22	Yes**				
Painted Americana Classic	DG	Deep Granite	Std. Gloss + Clear Coat	0.25	---	0.83	22	Yes**				
Painted Americana Classic	RC	Rocky Cliff	Std. Gloss + Clear Coat	0.29	---	0.83	27	Yes**				
Painted Americana Classic	WN	Weathered Stone	Std. Gloss + Clear Coat	0.27	---	0.83	25	Yes**				
Unpainted	797	Galvalume [®] Plus	---	0.68	0.57	0.14	58	Yes	Yes	++	+++	

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				Initial	3-Year			Steep Slope	Low Slope	Listed by ENERGY STAR		
Unpainted		Anthra Zinc Pre-Weathered	---	0.06	---	0.64	-15					
Unpainted		Quartz Zinc Pre-Weathered	---	0.20	---	0.33	-18					
Unpainted (anodized)	470	Clear	---	0.77	---	0.70	92	Yes**	Yes**		+++	
Unpainted (anodized)	471	Dark Bronze	---	0.15	---	0.77	6					

Properties posted on ENERGY STAR® and CRRC® websites may differ from these results on test samples.

* ENERGY STAR® Requirements:

Steep Slope > 2:12

0.25 initial; 0.15 after 3 years

Low Slope <= 2:12

0.65 initial; 0.50 after 3 years

** Meets ENERGY STAR® requirements based on initial reflectance only. No data available after 3 years. ENERGY STAR roofing products are not recognized in Canada.

++ Selected ATAS roofing products are ENERGY STAR® qualified with these paint systems. Contact ATAS for further information.

+++ Meets LEED® 2009 Credit 7.2 requirements for Heat Island Effect - Roof. Minimum SRI for Low Slope (<= 2:12) is 78 and for High Slope (> 2:12) is 29.