



## CCW BARRISEAL-R MATERIAL CERTIFICATION

This is to certify that Carlisle Coatings & Waterproofing CCW Barriseal-R is a roller applied, water-based asphalt emulsion modified with a blend of synthetic rubbers and special additives, which cures to form a flexible, monolithic air and vapor barrier membrane for use with concrete, masonry, insulation, steel, exterior sheathing, gypsum or wood wall construction and other substrates. CCW Barriseal-R is made in the USA.

Carlisle Coatings & Waterproofing manufactures CCW Barriseal-R to comply with the following ASTM typical property values and meets the specification requirements:

CCW Barriseal-R - Property	Test Method	Typical Value
Color		Brown to Black
Percent Solids		63%
Cured Film Thickness		40 mils (minimum)
Resilience	ASTM D 5329	98% (recovery)
Low-Temp Flexibility	ASTM D 1970	No cracking at -20°F, bent over 1" mandrel
Peel Adhesion	ASTM D 903	HDPE Film 12.2 lbs/in Concrete/CMU 14.1 lbs/in Gypsum Sheathing 13.1 lbs/in
Elongation	ASTM D 412	1000%
Water Vapor Permeance	ASTM D 96	0.03 perms
Air Leakage Through Assembly	ASTM E 283	$< 0.02 \text{ L/s} \cdot \text{m}^2$
Air Permeance, 40 mil Thickness Free Film	ASTM E 2178	$0.000 \text{ L/s} \cdot \text{m}^2$
Air Permeance, CMU Substrate	ASTM E 2178	$0.002 \text{ L/s} \cdot \text{m}^2$
Water Leakage Through Assembly	ASTM E 331	No visible leaks
Wind Loading of Assembly	ASTM E 330	No de-lamination of membrane or propagation of air leakage
Nail Sealability	ASTM D 1970	Pass
Low-Temp Crack Bridging	ASTM C 1305	No cracking
Air Barrier Assembly Test	ASTM E 2357	$0.0603 \text{ L/s} \cdot \text{m}^2$
Extensibility over crack after heat aging	ASTM C 1522	No Cracking

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