



## CCW BARRISEAL MATERIAL CERTIFICATION

This is to certify that Carlisle Coatings & Waterproofing CCW Barriseal 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 is made in the USA.

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

CCW Barriseal - Property	Test Method	Typical Value
Color		Uncured; dark brown, cured black
Percent Solids		62%
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 Desiccant method	0.02 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	$0.009 \text{ L/s} \cdot \text{m}^2$
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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