

## CCW MiraDRAIN 9900 CERTIFICATION

This is to certify that Carlisle Coatings & Waterproofing CCW MiraDRAIN 9900 is a high-performance, high-strength drainage composite consisting of a three-dimensional, high-impact polystyrene core, and a woven filter fabric. The filter fabric is bonded to the individual dimples of the molded polystyrene core. The woven fabric is better suited to receive a directly poured concrete topping than non-woven geotextile fabrics. CCW MiraDRAIN 9900 is Made in the USA.

CCW MiraDRAIN 9900 meets the following ASTM typical property values and specification requirements:

MiraDRAIN 9900	Test Method	Unit	Typical Value
Thickness	ASTM D 1777	in (mm)	0.25 (6.35)
Compressive Strength	ASTM D 1621	psf (kPa)	33,000 (1,650)
Maximum Flow Rate	ASTM D 4716	gpm/ft <sup>2</sup> (l/min/m)	13 (161)
Installed Horizontally	ASTM D 4716	gpm/ft <sup>2</sup> (l/min/m)	2.4 (30)
Fabric (FW402)	Test Method	Unit	
Apparent Opening Size	ASTM D 4751	U.S. Std Sieve (mm)	40 (0.43)
Water Flow Rate	ASTM D 4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	365 (1,624)
Grab Tensile Strength	ASTM D 4632	lbs (kN)	365 (1.62)
Grab Elongation	ASTM D 4632	%	24
CBR Puncture Strength	ASTM D 4833	lbs (kN)	675 (3,004)

Rev. October 1, 2013