

## CCW MiraDRAIN 9000 CERTIFICATION

This is to certify that Carlisle Coatings & Waterproofing CCW MiraDRAIN 9000 is a high-performance, high-strength drainage composite consisting of a three-dimensional, high-impact polypropylene core, and woven filter fabric. The filter fabric is bonded to the individual dimples of the molded polypropylene core to minimize intrusion into the flow channels caused by overburden pressure. The woven fabric is better suited to receive a directly poured concrete topping than non-woven geotextile fabrics. CCW MiraDRAIN 9000 is Made in the USA.

CCW MiraDRAIN 9000 meets the following ASTM typical property values and specification requirements:

MiraDRAIN 9000	Test Method	Unit	Typical Value
Thickness	ASTM D 1777	in (mm)	0.40 (10.16)
Compressive Strength	ASTM D 1621 (mod)	psf (kPa)	21,000 psi
Maximum Flow Rate	ASTM D 4716	gpm/ft (l/min/m)	23 gpm/ft
Fabric	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> )	145 (5,907)
Grab Tensile Strength	ASTM D 4632	lbs (N)	365 (1,624)
Grab Tensile Elongation	ASTM D 4632	%	24
CBR Puncture Strength	ASTM D 6241	lbs (N)	675 (3,004)

Rev. December 10, 2020