

ITL Reinforced Concrete Roll®

ITL RCR® At Work

Technical Data	ITL RCR®	RCR-7®		RCR-12®		
		Imperial	Metric	Imperial	Metric	
	Roll Width/Length	16' 4" x 65' 7"	5m x 20m	16' 4" x 65' 7"	5m x 20m	
	Total Coverage	1,076 ft²	100m	1,076 ft²	100m	
Weight	1,700 lbs/roll	770 kg/roll	2,850 lbs/roll	1,290 kg/roll		
Properties of ITL RCR® - Before Hydration	Test Method	Imperial	Metric	Imperial	Metric	
Thickness	ASTM D5199	0.33 inches	8.45 mm	0.51 inches	13.1 mm	
Mass / Unit Area	ASTM D5993	1.5 lb/ft²	7.31 kg/m²	2.76 lb/ft²	13.47 kg/m²	
Tensile Strength	Machine Direction Transverse Direction	ASTM D6768	217 lbs/inch	38.1 N/m	136 lbs/inch	23.9 N/m
			102 lbs/inch	17.9 N/m	191 lbs/inch	TD = 33.5 N/m
Density	ASTM D5993/ ASTM D5199	54 lb/ft³	865 kg/m³	64.4 lb/ft³	1031 kg/m³	
Properties of ITL RCR® - After Hydration	Test Method	Imperial	Metric	Imperial	Metric	
<i>Specimen Preparation per ASTM D8030</i>						
Compressive Strength	24 hour cure 7 day cure 28 day cure	ASTM C109	5,303 psi	36 MPa	5,303 psi	36 MPa
			6,823 psi	47 MPa	6,823 psi	47 MPa
			7,222 psi	50 MPa	7,222 psi	50 MPa
Thickness	ASTM D5199	0.37 inches	9.3 mm	0.54 inches	13.6 mm	
Flexural Strength	Machine Direction	ASTM D8058	5.31 lb/in	930 N/m	13.6 lb/in	2373 N/m
Initial Breaking Load	Transverse Direction		3.6 lb/in	630 N/m	14.3 lb/in	2497 N/m
Puncture Resistance	ASTM D5494	2,366 lbs	10.5 kN	3,782 lbs	16.8 kN	
Freeze-Thaw Initial Breaking Load	Machine Direction Transverse Direction	ASTM C1185	4.1 lb/in	717 N/m	13.3 lb/in	2323 N/m
			5.4 lb/in	936 N/m	13.7 lb/in	2400 N/m
Tensile Strength - Final	ASTM D4885	258 lbs/in	36,539.6 kN/m	264 lbs/in	38,332.3 kN/m	
Permeability	ASTM D5887	5.25E-09 ft³/ft²/sec	1.60E-09 m³/m²/sec	Testing only performed on RCR-7		
		3.20E-11 ft/sec	9.74E-12 m/sec			
Abrasion Resistance - per 1,000 cycles	ASTM C8329	Refer to RCR-12 testing values		0.014 in	0.36 mm	
Large-Scale Channel Testing Determination by Trapezoidal Channel	ASTM D6460	Refer to RCR-12 testing values		0.022 Manning's n		
Reaction to Fire	PN EN 12467:5.6	Refer to RCR-12 testing values		B,s1,d0		
ITL RCR® Certifications	Test Method	Acceptance Number				
Mine Safety and Health Administration U.S. Department of Labor	Acceptance of Flame-Resistant Solid Products Taken into Mines	MSHA IC-375/02				

Contact us for a free product sample!

Leo Cortez

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