



ITL Reinforced Concrete Roll®

Product Specification

TECHNICAL DATA

ITL RCR®	Imperial	Metric
Roll Width/Length	16' 4" x 65' 7"	5m x 20m
Total Coverage	1,076 ft ²	100m

Properties of geotextile	Test Method	Imperial	Metric
Grab Tensile Strength	ASTM D4632	80 lbs	356 N
Grab Tensile Elongation	ASTM D4632	50%	50%
Trapezoid Tear	ASTM D4533	30 lbs	133 N
CBR Puncture	ASTM D6241	210 lbs	934 N
Permittivity	ASTM D4491	2.2 sec ⁻¹	2.2 sec ⁻¹
WaterFlow Rate	ASTM D4491	160 gpm/ft ²	6,519 l/min/m ²
Apparent Opening Size (AOS)	ASTM D4751	70 USSieve	0.212mm
UV Stability @ 500 hrs	ASTM D4355	70%	70%

Properties of cement	Test Method	Imperial	Metric
Chemical Composition	XRF Spectroscopy	Sand-Cement Mix	Sand-Cement Mix
Initial Setting Time	PN-EN 196-3	≥ 25 minutes	≥ 25 minutes

Properties of ITL RCR® - Before Hydration	Test Method	Imperial	Metric
Thickness	ASTM D5199	0.51 inches	13.1 mm
Mass / Unit Area	ASTM D5993	397.1 oz/sq.yd	13,465 gsm
Tensile Strength	ASTM D6768	MD = 136 lbs/inch	MD = 23.9 N/mm
	ASTM D6768	TD = 191 lbs/inch	TD = 33.5 N/mm
	ASTM D4595	MD = 135 lbs/inch	MD = 23.6 N/mm
	ASTM D4595	TD = 188 lbs/inch	TD = 32.8 N/mm
Weight of RCR-12®	Certified Trade Scale	2,850 lbs/roll	1,290 kg/roll
Weight of RCR-7®	Certified Trade Scale	1,700 lbs/roll	770 kg/roll

Properties of ITL RCR® - After Hydration	Test Method	Imperial	Metric
Large-Scale Channel Testing Determination by Trapezoidal Channel	ASTM D6460	0.022 Manning's <i>n</i>	0.022 Manning's <i>n</i>
Compressive Strength - 24 hour cure	ASTM C109	5,303 psi	36.6 MPa
Compressive Strength - 7 day cure	ASTM C109	6,823 psi	47 MPa
Compressive Strength - 28 day cure	ASTM C109	7,222 psi	50 MPa
Peel Strength	ASTM D6496	6.94 lb/in	121.6 N/10cm
	ASTM D6496	5.77 lb/in	1,009.9 N/m
Thickness	ASTM D5199	0.54 inches	13.6 mm
Mass / Unit Area	ASTM D5261	486.1 oz/sq.yd	16,480 gsm
Flexural Strength	ASTM D8058	MD = 578 psi	MD = 3.98 MPa
	ASTM D8058	TD = 538 psi	TD = 3.71 MPa
Puncture Resistance	ASTM D4833	280 lbs	1,245 N
Puncture Resistance - Rigid Substrate	ASTM D5494	3,782 lbs	16,824 N
Index Flux (& Permeability)	ASTM D5887	3.20E-11 ft/sec	9.74E-12 m/sec
	ASTM D5887	5.25E-09 ft ³ /ft ² /sec	1.60E-09 m ³ /m ² /sec
Abrasion Resistance - Mass Loss	ASTM C1353	0.18 oz	5.17 grams
	ASTM D6768	MD = 207 lbs/inch	MD = 36.2 N/mm
Tensile Strength	ASTM D6768	TD = 255 lbs/inch	TD = 44.6 N/mm
	ASTM D4595	MD = 189 lbs/inch	MD = 33.1 N/mm
	ASTM D4595	TD = 228 lbs/inch	TD = 40.0 N/mm
Reaction to Fire	PN EN 12467:5.6	B,s1,d0	B,s1,d0

ITL RCR® Certifications	Test Method	Acceptance Number
U.S. Department of Labor Mine Safety and Health Administration	Acceptance of Flame-Resistant Solid Products Taken into Mines	MSHA IC-375/02

U.S. Distribution Centers

Moses Lake, Washington | Fostoria, Ohio | Odessa, Texas
www.itlrcr.com | 1 (800) 346-7744

