



BUILDING PRODUCTS OF CANADA CORP.

# TECHNICAL DATA SHEET ASPHALT SHINGLES

## MANOIR (RL200)

### DESCRIPTION:

**Manoir** is a laminate shingle composed of a stable fibreglass mat coated on both sides with an elastomeric modified asphalt and surfaced with mineral granules. **Manoir** is covered by a Lifetime Warranty. Its standard wind Warranty covers up to 180 km/hr (110 mph) and its High Wind Warranty covers up to 220 km/hr (135 mph) as per special application instructions.

### USES:

**Manoir** can be applied on roof slopes greater than 4/12. It can also be applied to roof slopes from 2/12 to 4/12 following special low slope application. Please refer to CSA A123.51 standard or the application instructions for further details.

### STORAGE:

Store on a flat surface no more than 3 pallets high.

### PHYSICAL PROPERTIES

Coverage (approx.)	3 m <sup>2</sup> (32.3 ft <sup>2</sup> )
Exposure	146 mm (5 3/4")
Dimensions	1029 mm x 343 mm (40 1/2" x 13 1/2")
Bundles / Pallet	32

CHARACTERISTICS	UNITS		RESULTS BP		REQUIREMENTS		TEST METHOD
	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	
Tear strength (cross direction)	g	lb	Pass	Pass	1700	4.0	ASTM D3462
Tensile strength (machine direction)	kN/m	lb/in	Pass	Pass	10.5	60	ASTM D146
Tensile strength (cross direction)	kN/m	lb/in	Pass	Pass	7.0	40	ASTM D146
Fastener pull through 0°C	N	lbf	Pass	Pass	186	42	ASTM D3462
Average net mass per unit area of finished shingles	g/m <sup>2</sup>	lb/100ft <sup>2</sup>	Pass	Pass	4394	90	ASTM D228
Mass of glass mat per unit area	g/m <sup>2</sup>	lb/100ft <sup>2</sup>	Pass	Pass	85	1.7	ASTM D228
Asphalt mass per unit area	g/m <sup>2</sup>	lb/100ft <sup>2</sup>	Pass	Pass	732	15	ASTM D228

### APPLICABLE STANDARDS

ASTM D3018;  
ASTM D3462;  
CSA A123.5M;  
UL 790 & CAN/ULC S107 & ASTM E108, Fire Resistance Class A;  
UL 2390 & ASTM D7158 Class D;  
ASTM D3161 Class A, D and F;