

Penteco BGM ES2

- ❖ **Containment**
- ❖ **Erosion Control**
- ❖ **Leak Detection**
- ❖ **Water Proofing**
- ❖ **Protection**

Penteco's ES2 is an elastomeric modified bituminous geomembrane. It is manufactured by impregnating a polyester geotextile fiberglass layer with an elastomeric compound. The geotextile provides the mechanical resistance and a high puncture resistance. The elastomeric bitumen provides the waterproofing properties of the geomembrane and ensures its longevity.

The installation of this geomembrane can be allowed in low temperatures down to -40°C, ideal for Canadian winters. The high friction angle of bitumen of 34 degrees for example provides a strong adherence in steep slopes, allowing a high volume of material placement directly on the geomembrane.

BGM – ES2				
Property		Test Method	Imperial	Metric
Thickness	Average	ASTM D-5199	157.5 mil	4.00 mm
	Minimum		141.7 mil	3.60 mm
Surface Mass	Average	ASTM D-5261	143 oz/yd ²	4.85 kg/m ²
	Minimum		126.8 oz/yd ²	4.30 kg/m ²
Tear Resistance (average)	Longitudinal Direction	ASTM D-4073	185 lbf	825 N
	Cross Direction		157 lbf	700 N
Strength (average)	Longitudinal Direction	ASTM D-7275	154 lbf/in	27 KN/m
	Cross Direction		137 lbf/in	24 KN/m
Elongation (average)	Longitudinal Direction	ASTM D-7275	60%	60%
	Cross Direction		60%	60%
Flexibility at Low Temperature (average)	Longitudinal Direction	ASTM D-5147	-4°F	-20°C
	Cross Direction		-4°F	-20°C
Puncture Resistance	Average	ASTM D-4833	119 lbf	530 N
Water Permeability	Average	ASTM E-96	6 x 10 ⁻¹⁴ m/s	
Gas Permeability	Average	ASTM D-1434-82	2 x 10 ⁻⁴ m ³ /(m ² .d.atm)	
Dimensions				
Typical Roll Size		Measured	16.7 ft x 262 ft	5.10 m x 80 m
Area		Calculated	4376 ft ²	408 m ²

Notes:

- (1) Roll Widths/ Lengths vary based on manufacturer.
- (2) All roll widths/lengths have a tolerance of ±1 %.
- (3) Custom roll lengths can be ordered. Transportation cost might be affected.
- (4) Penteco is a distributor for this product.
- (5) Manufacturer's data sheet provided at time of purchase.

DISCLAIMER: The data above represents the manufacturer's laboratory testing of their product. It is the user's responsibility to determine the suitability of the products. Penteco is a distributor for these products through its manufacturing partners. Penteco will provide the manufacturers data sheet at the time of sale. Penteco and manufacturing partners assume no liability, nor can they provide any warranty, without having additional information regarding the use of the products. The same goes for any infringement on patents - no permission can be granted without further disclosure.

Distributed by

