

## SABIT PLASTO SPG

### INTRODUCTION

**SABIT PLASTO - SPG** is the modified bituminous waterproofing membrane, consisting of a central glass fiber polyester core, impregnated and coated on both sides with layer of APP (Atactic Polypropylene) polymer modified bitumen and finished with heat fusible polyethylene on both surfaces.

### TECHNICAL DATA

Ref F05-21 Issue MEM JANUARY 2020

NO	PROPERTIES	TYPICAL RESULT	TOLERANCE	TEST METHOD	
1	Roll size, m	10	≥10	ASTM D 5147	EN 1848-1
2	Thickness, mm	3 or 4	±5%	ASTM D 5147	EN 1849-1
3	Unit weight (plain), kg/m <sup>2</sup>	3 or 4	±10%	ASTM D 5147	EN 1849-1
4	Carrier polyester, g/m <sup>2</sup>	55		UEATC, M.O.A. T.30	
5	Softening point (°C)	>150		ASTM D 36	
6	Penetration at 25°C, dmm	15-30		ASTM D 5	
7	Cold flexibility, °C	0 to -2		ASTM D 5147	
8	<b>Tensile strength @23±2°C, N/5cm</b> Longitudinal Transverse	400	±20%	ASTM D 5147	EN 12311-1
		250			
9	<b>Elongation, % @23±2 °C</b> Longitudinal Transverse	3.5	±15%	ASTM D 5147	EN 12311-1
		3.0			
10	<b>Tear Strength (N)</b> Longitudinal Transverse	300		ASTM D 4073	
		200			
11	Heat resistance at 110 °C	No flow		ASTM D 5147	
12	Water Absorption, % by wt., 24 hrs.	<1.0		ASTM D 5147	

**Note:**

Saudi Bitumen Industries Co. Ltd.(SABIT) may modify this technical data sheet without prior notice.

## Description

**SABIT PLASTO-SPG** has a multilayered design consists of glass fiber core, impregnated and coated on both sides with APP (Atactic Polypropylene polymer) modified bitumen and finally finished with heat fusible polyethylene film on both surfaces. SABIT plasto- SPG modified bitumen waterproofing membrane are produced from a blend of special grade thermoplastic polymers and bitumen. This combination gives the proven waterproofing qualities of bitumen plasticity, excellent resistance to heat, ageing and weathering and ease of application by torch welding the polyester core gives the membrane high tensile strength, elongation and superior lap joint strength.

**SABIT PLASTO-SOP** is available in two basic finishes

- Finish with polyethylene surface for covered application **SABIT PLASTO -SOP**
- Granular surfacing for exposed application **SABIT PLASTO -SOP-G**

### Features

- Total impermeability for complete waterproofing
- Good bond ability and seam integrity
- Good performance at board temperature range
- Good flexibility
- Stability at high ambient temperature

### Limitation

**SABIT PLASTO - SPG** is not designed to be used in permanently exposed surfaces. Use **SABIT PLASTO – SPG-G** for such purpose or use **SABIT PLASTO – SPG** with a covering of insulation or ballast.

Neither **SABIT PLASTO – SPG** nor **SABIT PLASTO – SPG-G** are oil and solvent resistant

### Surface preparation

- Clean the surface smooth and free from moisture and debris or any kind of substance that would prevent the membrane from adhering properly.
- The roof must have a minimum slope of 1% (10mm per meter) evenly and continuously towards the drain.
- Surface must be primed with **SABIT Primer D-41**.

### Membrane installation

- Unroll the membrane making sure the edge (side lap joint) is aligned with the low point of the roof. Re-roll one end of the center of the roll and apply, then proceed with the opposite half. Proceed up the slope with further rolls.
- The end of the propane torch head should be positioned between 150mm and 300mm from the surface depending on the weather condition. Maximum heat is obtained at the blue end of the flame. The welding procedure will be more effective if the torch and thus the flame is moved continuously in rectangular pattern from the roll to the substrate. The movement should be slowed over the joint of the base sheet in order to apply enough heat to soften the bitumen and to fill possible voids
- For the best results, make sure that there is always a small amount of molten bitumen on front of the roll being heat welded.

### Approximate Coverage Rate

Flat areas	: 1.15m <sup>2</sup> per 1m <sup>2</sup> area with 10cm side overlaps and 15cm end laps
Base flashing	: 0.40m <sup>2</sup> /linear meter (100x35 cm with 15 cm end laps)
Wastage	: 3-5%

### Packing

SPG, SPG-G, for 4MM = 23 Rolls per pallet  
SPG, SPG-G, for 5MM = 16 Rolls per pallet

### Storage and handling

- Vertically store the rolls in pallets
- Store under shaded warehouse
- Rolls in pallet should not be stored over the other



### Manufacturer's warranty

Subject to conditions and limitation of Saudi Bitumen Industries Co. Ltd.(SABIT) written warranty.

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