

# automated waterproofing membrane installation system

## macaden®







- Fast Installation: up to 1,800 m² per day with 2 operatives only and independently of outside temperature.
- High performance : high quality of installation, fewer seams and no swells.
- Economical: reduced labor and site downtime.
- Multi-purpose: can be used on bridges, overpasses and car parks.
- **Safe**: no flame and limitation of manual operations.

### automated installation

#### MACADEN®

The **Macaden®** is a machine for laying bituminous membranes, operated by **SOPREMA** for more than 10 years, for the installation of thermofusible bituminous rolls on bridges and carparks.

With its two hot air nozzles, **Macaden®** preheats the substrate to a temperature of above 100°C, unwinds the 190 Im length Jumbo rolls, then welds and bonds the membrane onto the substrate using compression rollers.

Self-propelled, independent and self guided, **Macaden®** can lay up to 1,800 m<sup>2</sup> per day whatever the outside temperature (> -10 ° C) or wind conditions.

The **Macaden®** only requires two operatives.

- Preheating of the substrate to above 100 ° C, Unwinding Jumbo rolls of 190 ml.
- Optimal efficiency from -10 °C. Double bonding. Propane bottles on board.

The **Macaden®** machines are exclusively operated by **SOPREMA** and operate throughout the entire world.

#### **FEATURES**

■ **Dimensions :** length : 4,90 m, width : 1,60 m, height : 1,75 m.

**■ Empty weight :** 3,5 T.

■ **Processing speed**: 4 to 6 meters per minute.

■ **Rolls**: Jumbo 190 ml x 1 m.

#### THE PROCEDURE

The operation of the **Macaden®** is 100% fully automatic, with controlled parameters: temperature, speed, etc. ...

- 1. The Jumbo roll of sealable membrane is installed on the device.
- The unit is pre-aligned and its guiding system allows the automatic advance and follows the curves of the structure.
- 3. A first hot air nozzle at the front of the machine pre-heat the substrate surface and promotes optimal welding.
- 4. The membrane is mechanically held to avoid creases.
- 5. The second hot air nozzle welds the membrane uniformly and at constant controlled temperature
- 6. The bonding rollers exert even pressure on the entire surface to ensure perfect adhesion to the substrate.



#### CivilRock® at your service

If you would like to discuss a future project or one that is under way, or if you have any queries, feel free to call us.

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