



Sigillo[®]

Electrically-operated covering
system for tipper bodies



marcolin[®]

SIGILLO[®] - Functional features

This covering system is mounted to the front of the cab guard or the front wall of the load body and is specifically designed for vehicles with a limited space between the load body and the driver's cab (in the version with an internal motor, it only requires 85 mm of space). It is ideal for rear and three-way **tipper bodies**, but it can be effectively used also on **swap bodies**.

Two **mechanical** options are available: With an internal motor for load bodies with a cab guard, or with an external motor for bodies without cab guards, for instance skips and swap bodies. The **electrical drive** system is located at the front, on the left side of the body and it features a double-groove pulley which operates the **two cables** (one for each side of the body) that open and close the covering. The covering is supplied as standard with a **24 V IP66 and IP67 high-performance control unit** operated with 4-channel remote control (with retraction and vibration modules available as options).

Cable return pulleys are mounted on the rear sides of the swap body, complete with an adjustable cable tensioning system. The covering moves while the operator remains safely on the ground, using either the control panel on the lorry, or remotely with the remote control.

The **bows & tarp** section, provided pre-assembled, consists of a series of bows supporting the tarp, and connected by the tarp operating system.

The bows slide along the sides of the body on plastic pads, specifically designed to minimize friction and ensure a smooth and unimpeded movement, to prevent wear on the body and provide a long service life.

To protect the load from the weather and prevent losses during transport, the tarp can be integrated with side flaps to improve the tightness of the covering.

The **Sigillo** cover can be integrated with a wide range of optional accessories for a variety of specific applications.



FIELDS OF APPLICATION



ROLL-UP METHOD



OPERATION



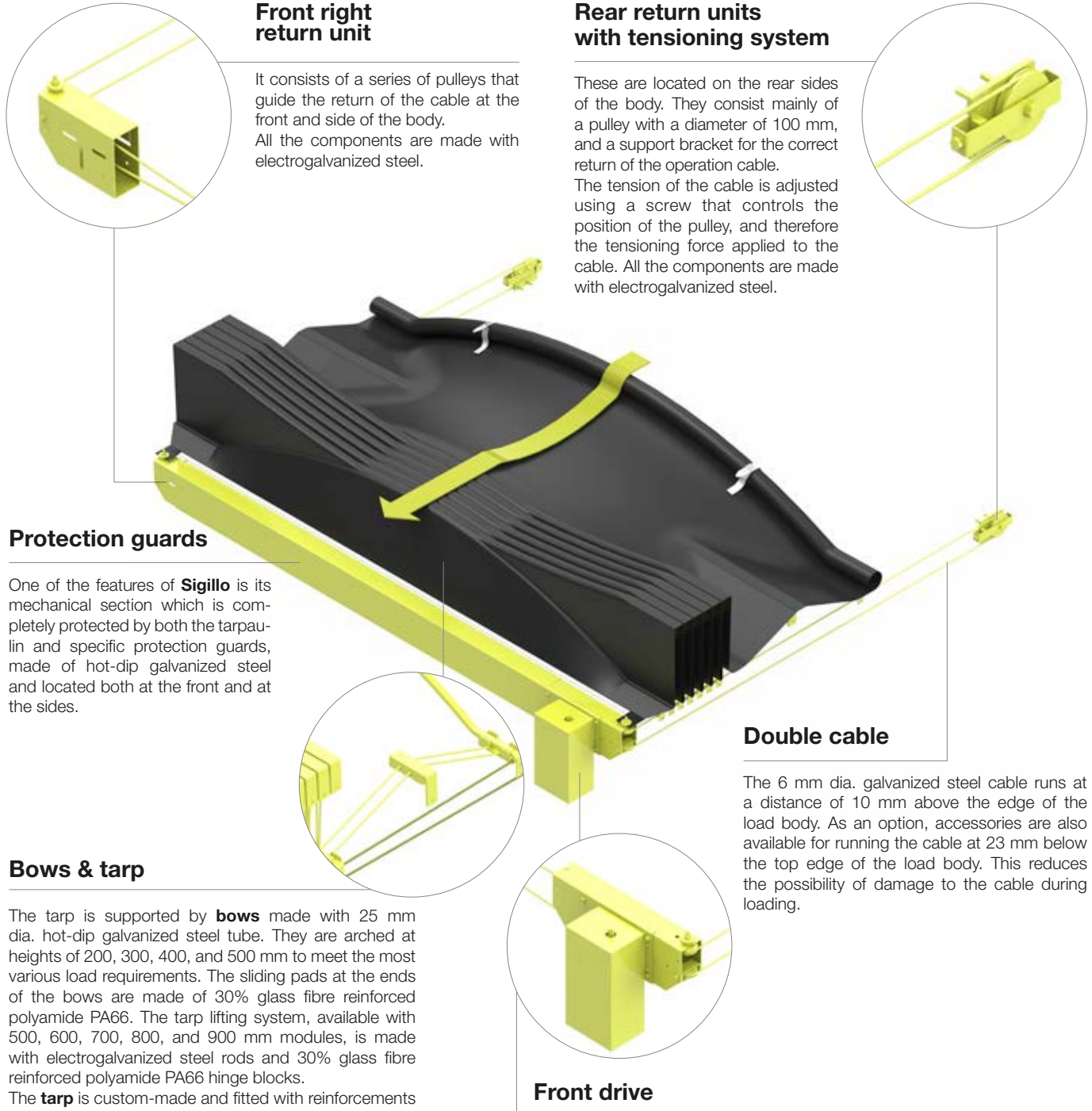
SIGILLO[®] - Technical characteristics (external motor)

Front right return unit

It consists of a series of pulleys that guide the return of the cable at the front and side of the body. All the components are made with electrogalvanized steel.

Rear return units with tensioning system

These are located on the rear sides of the body. They consist mainly of a pulley with a diameter of 100 mm, and a support bracket for the correct return of the operation cable. The tension of the cable is adjusted using a screw that controls the position of the pulley, and therefore the tensioning force applied to the cable. All the components are made with electrogalvanized steel.



Protection guards

One of the features of **Sigillo** is its mechanical section which is completely protected by both the tarpaulin and specific protection guards, made of hot-dip galvanized steel and located both at the front and at the sides.

Double cable

The 6 mm dia. galvanized steel cable runs at a distance of 10 mm above the edge of the load body. As an option, accessories are also available for running the cable at 23 mm below the top edge of the load body. This reduces the possibility of damage to the cable during loading.

Bows & tarp

The tarp is supported by **bows** made with 25 mm dia. hot-dip galvanized steel tube. They are arched at heights of 200, 300, 400, and 500 mm to meet the most various load requirements. The sliding pads at the ends of the bows are made of 30% glass fibre reinforced polyamide PA66. The tarp lifting system, available with 500, 600, 700, 800, and 900 mm modules, is made with electrogalvanized steel rods and 30% glass fibre reinforced polyamide PA66 hinge blocks.

The **tarp** is custom-made and fitted with reinforcements on the edges for the widest range of applications, based on the specific requirements of the vehicle. Available in green or black flame-retardant PVC mesh (350 g/sqm), in 100% waterproof coated PVC in a wide range of colours (650 g/sqm), in flame retardant PVC (weight 680 g/sqm). The select choice of fibres and the quality of the coating ensure a very high resistance to mechanical stresses, light, rain and snow, and all weather conditions in general.

Front drive

This consists of a 24V, 550W, 2400 rpm DC motor (external) connected to a VSF gear reducer (reduction ratio 40:1). The reducer consists of a die-cast aluminium monobloc casing (with a sandblasted external finish) containing the reduction gearing, made of precision-ground hardened steel. The two cables are pulled by a 145 mm dia., twin groove pulley connected to the reducer shaft. Dedicated return pulleys are used to guide and maintain the alignment of the cable. All the components, with the exception of the gearmotor, are made of electrogalvanized steel.

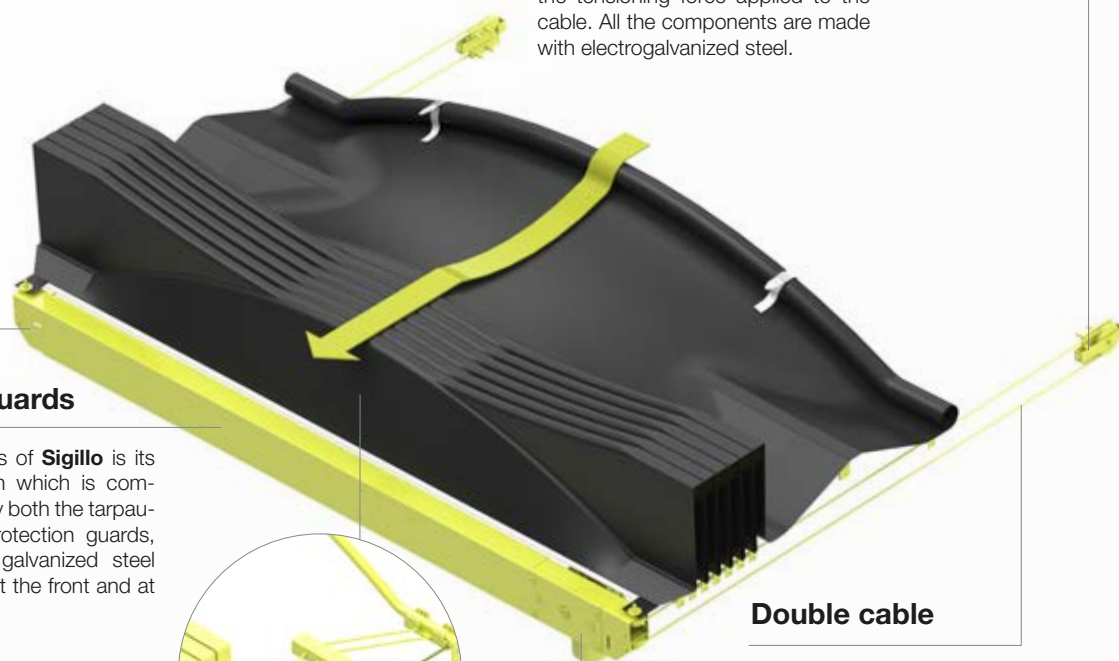
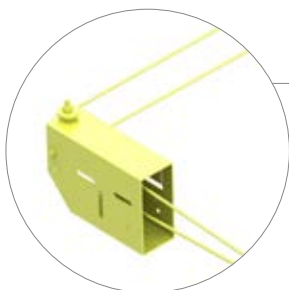
SIGILLO[®] - Technical characteristics (internal motor)

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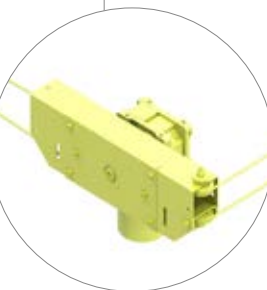
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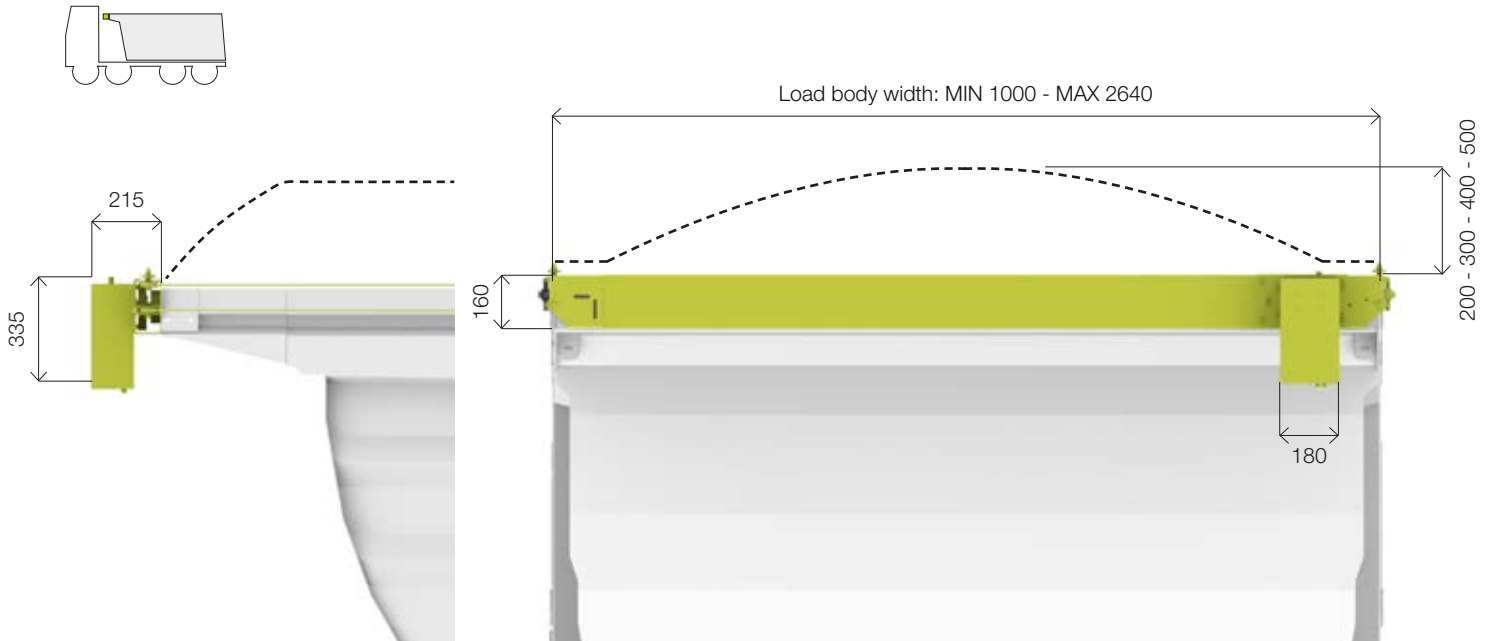


Front drive

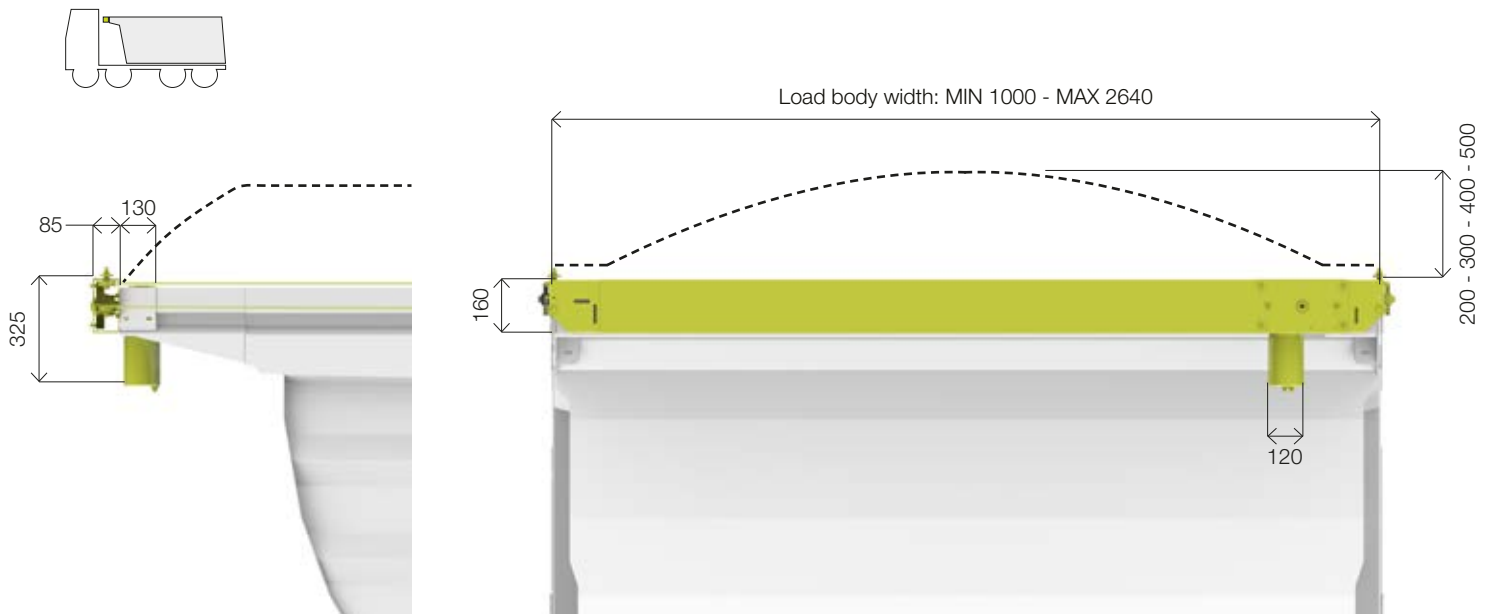
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SIGILLO[®] - Dimensions

STANDARD ON BODY (EXTERNAL MOTOR)



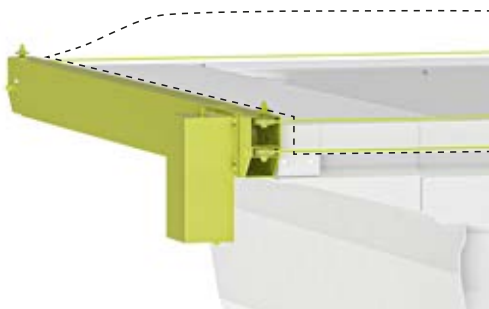
STANDARD ON BODY (INTERNAL MOTOR)



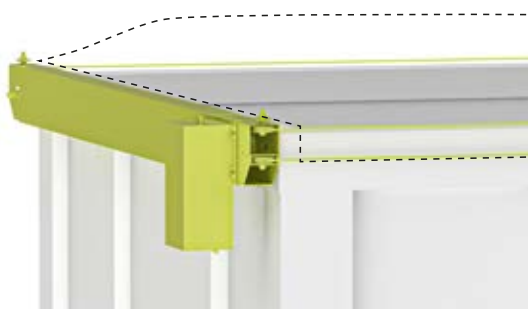
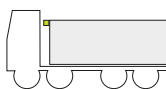
The sizes are indicated in mm

SIGILLO[®] - Installation options

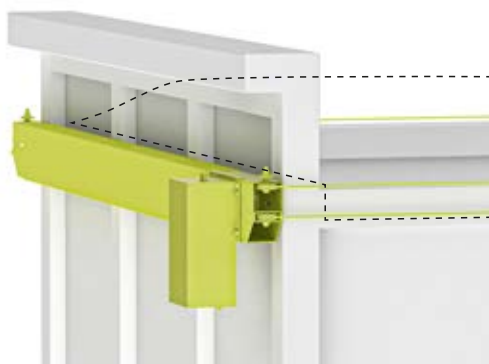
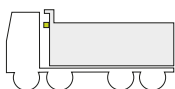
STANDARD ON BODY WITH CAB GUARD (EXTERNAL MOTOR)



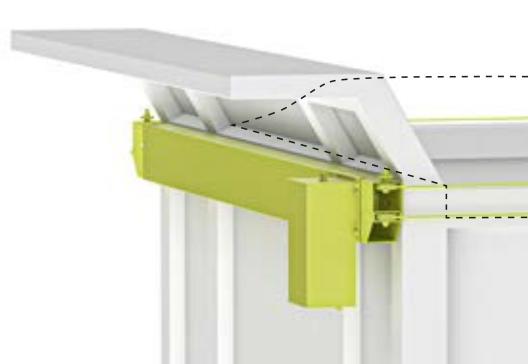
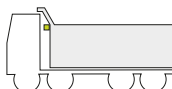
STANDARD ON BODY WITHOUT CAB GUARD (EXTERNAL MOTOR)



STANDARD ON BODY WITH RAISED END WALL (EXTERNAL MOTOR)



STANDARD ON BODY WITH RAISED CAB GUARD (EXTERNAL MOTOR)



SIGILLO[®] - Installation options

**STANDARD ON BODY WITH CAB GUARD
(INTERNAL MOTOR)**

