

TECHNICAL COMMUNICATION / R+D

Project: 14-024
 Communication: 20-025

Date: 10/11/2020

PRODUCT DEVELOPMENT

Range:	All
Item:	12B – Weathering cap PRO
Diameters:	All
Available from:	09/11/2020
Responsible:	Víctor Arjones

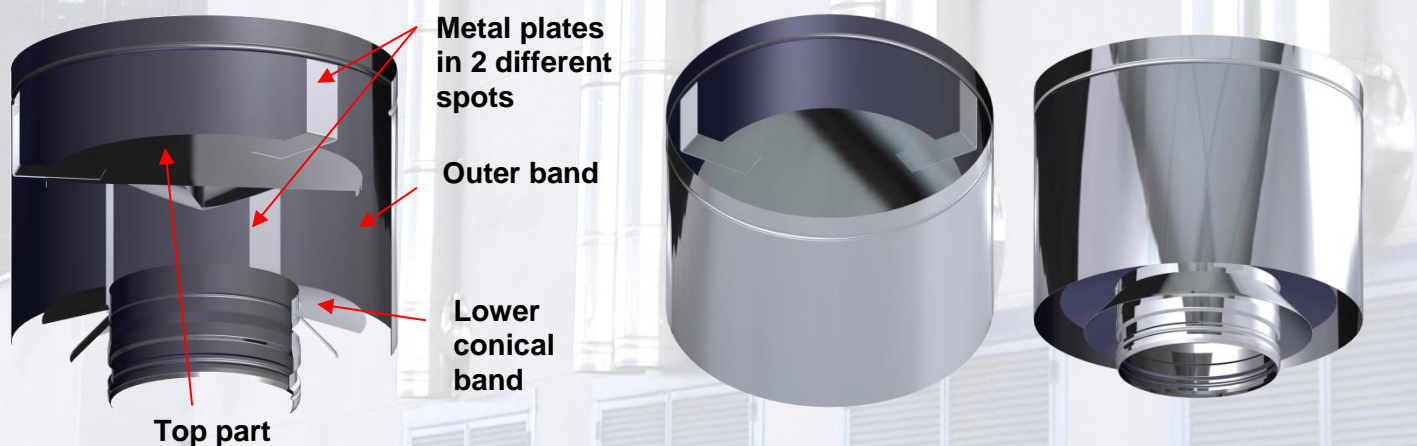
DESCRIPTION

We hereby communicate the modification of the weathering cap design (reference 12B), with the aim of improving its performance regarding the following aspects:

- **Rain resistance**

We have done the following design changes:

- Optimization of the dimensions and position of the weathering cap's outer band, by increasing the overlap with the inner wall of the chimney.
- Modification of the **top**, which now has a **full perimeter flap**.
- New **extra, small metal plates**, welded at different spots, which help to support the aforementioned **perimeter top flap** and prevent the water that slides over them to go inside the chimney as they are welded to the inner wall of the weathering cap.
- **Lower conical band** to prevent the water to enter through that area when rain together with strong wind fall upon it almost horizontally.



Both the **resistance to rain with wind** and the pressure losses of the new weathering cap have been tested in an external laboratory (KIWA), according to the new 2019 version of the European standard EN 13216-1. Tests have demonstrated that **the weathering cap prevents from the**

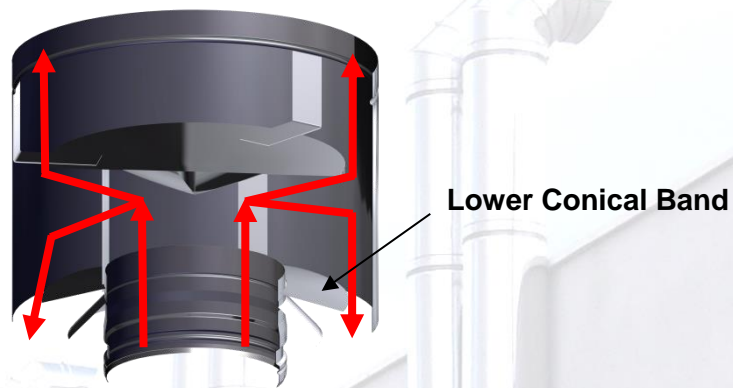
entrance of 99.6% of the rain in these conditions. This largely exceeds the requirement of 98.4% stated by the standard.

- **Soot dispersion**

The weathering cap design allows the exhaust gases to go out through both the upper and lower part of it.

Solid fuel can get the weathering cap dirty and if it rains, black stains could appear due to water sweeping along the soot.

To avoid this, a conical band has been placed in the lower part of the terminal (it also fulfills a rain-resistance function as mentioned above.) It reduces the flue exhaust in that area and directs the gases, distancing them from the outer wall of the chimney.



- **Pressure loss**

By placing the lower conical band and adjusting the dimensions of the weathering cap as mentioned above, pressure losses have been reduced comparing to the previous model. This has been proved by testing it in an external laboratory.

The new model will be supplied as soon as we finish the stock of the current model.

The price of the item will remain the same.