

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1:2009

Classification no.	2015-Efectis-R000284
Sponsor	Recair BV P.O. Box 721 5140 AS WAALWIJK THE NETHERLANDS
Product name	Plastic heat recuperators Types Recair Sensitive RS160, RS220, RS300
Prepared by	Efectis Nederland BV
Notified body no.	1234
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1. INTRODUCTION

This classification report defines the classification assigned to **plastic heat recuperators, types Recair Sensitive RS160, RS220, RS300** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

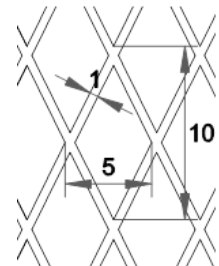
The product, **plastic heat recuperators, types Recair Sensitive RS160, RS220, RS300**, will be used as a heat exchanger in air ventilation systems.

2.2 MANUFACTURER

Recair BV
P.O. Box 721
5140 AS WAALWIJK
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of a top, bottom and two side panels made of ABS (Acrylonitrile Butadiene Styrene), colour opal green, thickness approx. 2 mm, with a core made of multilayer parallel triangular ducts made of high-impact polystyrene, mounted parallel between top and bottom panel. The core is shielded at all four in- and outlets with an aluminium grid (Aluminium 1050R - H24). The grid size of the mesh is 10 x 5 x 1 mm, the mesh is 0.8 mm thick.



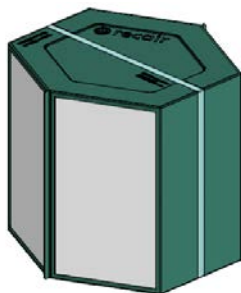
The product is made in three different shapes with different dimensions:

- RS160: width and length of 366 mm, height between 150 mm and 500 mm
- RS220: width of 138.5 mm, length of 318.5 mm, height between 100 mm and 300 mm
- RS300: width of 232 mm, length of 481 mm, height between 150 mm and 500 mm.

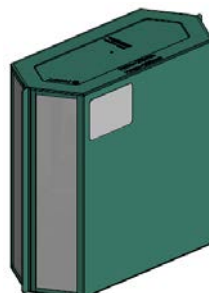
The products have a maximum weight of approx. 5 kg.

See the test report for drawings of each type of recuperator.

Detailed technical information of the materials used in the recuperators is available at Efectis Nederland.



RS160



RS220



RS300

3. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

3.1 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Recair BV THE NETHERLANDS	2015-Efectis-R000283	EN ISO 11925-2:2010

3.2 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
EN ISO 11925-2				
Outer panels of the product				
surface flame impingement	F _s ≤150 mm	6	15	-
	Ignition of filter paper		-	Compliant
edge flame impingement	F _s ≤150 mm	6	33	-
	Ignition of filter paper		-	Compliant
The core lamellae shielded by an aluminium grid				
Side flame impingement	F _s ≤150 mm	6	8	-
	Ignition of filter paper		-	Compliant

3.3 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements	
Classification criteria	
Class	E
Test method(s)	
EN ISO 11925-2 Exposure = 15 s	F _s ≤ 150 mm within 20 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2007+A1:2009.

4.2 CLASSIFICATION

The product, **plastic heat recuperators, types Recair Sensitive RS160, RS220, RS300**, in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: E

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

RS160

- Width and length of 366 mm 366 mm
- Height Between 150 mm and 500 mm

RS220

- Width 138.5 mm
- Length 318.5 mm
- Height Between 100 mm and 300 mm

RS300

- Width 232 mm
- Length 481 mm
- Height between 150 mm and 500 mm.

Maximum mass Approx. 5 kg

This classification is valid for the following end use applications:


End use conditions use in air ventilation systems

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

There are no limitations in time on the validity of this report.

5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

A handwritten signature in blue ink, appearing to read "C.C.M. Steinhage".

C.C.M. Steinhage B.Sc.
Project leader reaction to fire

A handwritten signature in blue ink, appearing to read "E.O. van der Laan".

E.O. van der Laan M.Sc.
Project leader reaction to fire