

CLASSIFICATION OF MATERIALS ACCORDING TO FIRE REACTION (EN 13501)

PLENUMS

Our **plenums** are made of steel, with a maximum fire classification of **A1** according to **EN 13501**, being completely non-combustible and contributing nothing to the fire at any stage.

A1

Powder-coated plenums with a thermosetting finish have an **A2-s1,d0** classification. The powder-coated polyester finish applied to a non-combustible substrate such as steel, with a standard coating thickness of up to 120 µm, achieves a minimum level of smoke generation and a maximum protection level of **d0**, with no flaming droplets or particles within 600 seconds.

A2

s1

d0

Our internally insulated plenums have a **B-s3,d0** classification according to **EN 13823** testing, with a **B** level equivalent to a very limited contribution to fire, an **s3** level regarding smoke production, and a maximum protection level of **d0**, with no flaming droplets or particles within 600 seconds.

B

s3

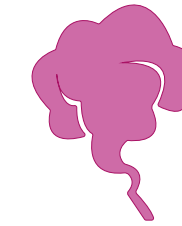
d0

Koolair **PF-45 expanded polystyrene plenum**, with fire reaction classification **E**.

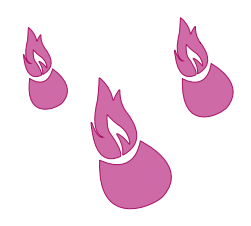
E



**FIRE
RESISTANCE**



**SMOKE
GENERATION**



**FLAMING DROPLET
GENERATION**

A1

s1

d0

A2

s2

d1

B

s3

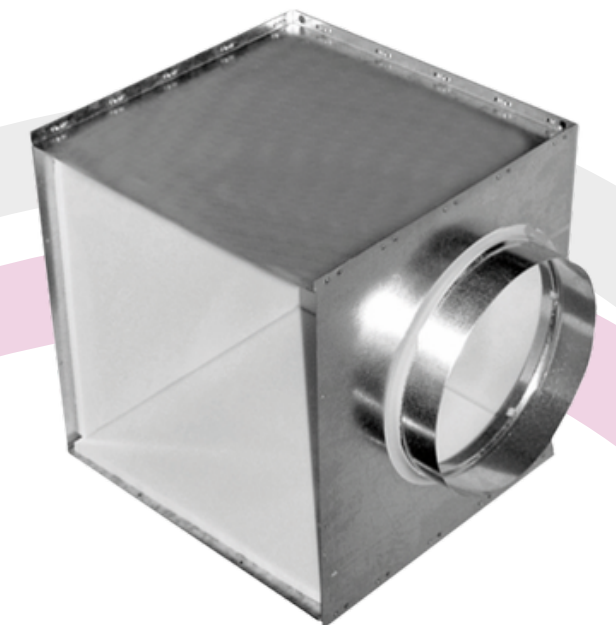
d2

C

D

E

F



KOOLAIR