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European Technical Assessment

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General Part

Technical Assessment Body issuing the European Technical Assessment:

Kiwa Nederland B.V.

Trade name of the construction product

DuoFOIL Seal

Product family to which the construction product belongs

Thermal insulation products for buildings with radiant
heat reflective components.

Manufacturer

Duofoor B.V.

Lage Ham 50b
5102AD, Dongen
The Netherlands
<https://www.duofoor.eu>

Manufacturing plant(s)

Duofoor B.V.

Lage Ham 50b
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The Netherlands
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This European Technical Assessment contains

12 pages

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Specific parts

1. Technical description of the product

1.1. Definition of the product

The subject of this European Technical Assessment (ETA) is thermal insulation product for building with radiant heat reflective components with designation DuoFOIL Seal.

DuoFOIL Seal is a multi-layer thermo-reflective insulation material, made up of metallic foil layers, flexible wadding and closed cell foam; coated with aluminum foil reinforcing scrim on both sides. The product combines thermal insulation performance with vapour-tight barrier to maintaining energy efficiency.

This product is available in two variants: DuoFOIL Seal 45 (hereinafter Product 1) and DuoFOIL Seal 90 (hereinafter Product 2). Both versions are composed of multiple layers alternating aluminum foils, flexible wadding and closed-cell foam, featuring a reflective low-emissivity outer surface on both sides. The foil layers reflect radiant heat, while the internal structure reduces conductive heat loss. Additionally, an adhesive tape is included to facilitate installation.

- Product 1: consists of 17 layers, the core of the product consists of 4 layers of polyester fiber wadding, 2 layers and 2 double layers of closed cell foam, separated by 7 metallized film layers (the product is not an underlay). The first and the last layer consist of aluminum foil with polyethylene backing and reinforcing scrim.

Product 2: consists of 33 layers, The core of the product consists of 8 layers of polyester fiber wadding: 4 layers and 4 double layers of closed cell foam separated by 15 metallized film layers (the product is not an underlay). The first and the last layer consist of aluminum foil with polyethylene backing and reinforcing scrim.

Table 1 – Presentation of the product per roll

Characteristics	Value	
	Product 1	Product 2
Nominal Weight	11,6 [Kg]	23,2 [Kg]
Nominal thickness	40 [mm]	82 [mm]
Nominal Width	1200 , 1500 [mm]	
Nominal Length	10000 [mm]	
(*) Presentation of the product per roll.		

