



## Type Approval Certificate Nr 13748-03



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The type approval body Inspecta Sertifointi Oy has issued a type approval certificate based on the Act on the Type Approval of Certain Construction Products to demonstrate that the product meets the requirements of the document "Ympäristöministeriön asetus ovien tyyppihyväksynnästä 2007". The decision concerns the following product:

### Steel fire doors EI30 and EI60

The structure and the mounting of the product are according to the conditions of this type approval certificate.

The products are fire-technically partitioning fire doors that are located in partitioning walls or dividing walls. The product's technical properties have been type-tested applying the standards EN 1363-1 and EN 1634-1 and the extended use of the product is defined by the standard EN 15269-2. The internal quality control system of the factory's production meets the requirements of the type approval regulation.

Manufacturer of the product:

### Vasmet Oy

Luhtikyläntie 1558, 16510 Luhtikylä

Manufacturing place of the product:: Luhtikylä

The type approval certificate is issued on 2023-07-20

(The original certificate is issued on 2023-03-16)

The type approval certificate is valid until 2028-07-20 or the end of the coexistence period of the harmonized standard of this product.

Maija Vanttaja, Managing Director

# CERTIFICATE

Inspecta Sertifointi Oy

P.O. Box 1000,

Sörnäistenkatu 2

FI-00581 Helsinki,

Finland

Tel. +358 10 521 600

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Product identification: the text "Type approval certificate" or "Tyypinhyväksyntätodistus" must be used on the product or its identification tag and the type approval certificate number, the fire class of the product (EI<sub>2</sub> 30 or EI<sub>2</sub> 60), the name of the manufacturer and the year of manufacture.

The quality control certifier of the product is  
**Inspecta Sertifointi Oy**, Helsinki  
Date of the quality control agreement: 2021-03-30.

The inspection visit and testing reports that the decision is based on:  
**SERRER1221, HA-187-22-0057, VTT-S-08038-13, VTT-S-09137-13, VTT-S-09138-13;  
913-21TMU, 921-22T2MAU, EUFI29-21002736-T1-01, EUFI29-20002562-T1-01**

**The classification of steel fire door is EI<sub>2</sub> 30 or EI<sub>2</sub> 60**

## THE CONDITIONS OF THIS TYPE APPROVAL CERTIFICATE:

The size of the door leaf (width\*height) without rebates:

-EI<sub>2</sub> 60:

- Single leaf door: 446-1142\*582-2442 mm, maximum area: 2,42 m<sup>2</sup>
- Active leaf of double leaf door: 446-1070\*1526-2441 mm, maximum area: 2,26 m<sup>2</sup>
- Passive leaf of the double leaf door: 500-1200\*1526-2441 mm, maximum area: 2,54 m<sup>2</sup>.

-EI<sub>2</sub> 30:

- Single leaf door: 446-1142\*582-2442 mm, maximum area 2,42 m<sup>2</sup>
- Active leaf of double leaf door: 446-1070\*1526-2441 mm, maximum area: 2,26 m<sup>2</sup>
- Passive leaf of the double leaf door: 500-1200\*1526-2441 mm, maximum area: 2,54 m<sup>2</sup>.

Thickness of door leaf 73 mm

Frame material of door leaf and allowed thicknesses:

- Steel 0,70-0,88 mm
- Stainless steel 0,53-0,77 mm

Door kick plate:

- maximum thickness 1,5 mm and height 800 mm.

A maximum of 1.5 mm thick laminate or wood veneer can be attached to the door leaf and to the doorframe on visible surfaces (but not to edges).

Intumescent sealing 40 mm\*2 mm on the perimeter of door leaf

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## Glazing:

- Pyrostop EI60 or Pyrobel EI60
- Max allowed dimensions 385 mm\*585 mm
- Distance between glass opening and edge of door leaf shall be at least 276 mm.

## Doorframe:

- Width of the frame 100 mm
- Frame material and allowed material thicknesses:
  - Steel 1,5-2,25 mm
  - Stainless steel 1,5-1,88 mm

## Threshold:

- Door may be mounted with or without threshold.
- Hatch frame can be similar on all sides

## Hardware:

- Lock Abloy LC204 or Abloy LE181
  - Lock height 690-1290 mm from the lower edge of the leaf
- Additional lock Abloy 4180 or Abloy 4181
  - lock height 400mm from the main lock
- Bolt on passive leaf of double leaf door set Abloy DF3000 or AMS300
- Hinges POEI60 MS
  - at least 3pcs per leaf (hatches have 2 hinges)
  - 3 pcs dog bolts on hinges side
- Closer Dorma TS83, Geze TS4000 or Abloy Oy closer: DC240, DC241, DC247, DC250, DC330 DC334, DC335, DC403 or DC405.
- The parts that keep the door closed, such as hinges and locks, shall be of steel or metal alloy, which melting point is above 850°C.

## Other hardware:

- Door set may include metal-based power cable and conduit for electric lock.
- Alarm contacts and proximity switches are allowed.

## Mounting of the product:

- Doors may be mounted in standard high density rigid and in standard low density rigid supporting construction. Doors may also be mounted in sandwich panel wall.
- EI<sub>2</sub>30 doors may also be mounted in standard flexible wall (board covered type with studs made from metal or timber).

- Fixing screws shall be at least 5\*70 mm; 5 fixing points on vertical edges (doors with normal height) and 1 on top in case of single leaf door and 3 on top in case of double leaf door.
- The installation gap between the frame and supporting construction is at maximum 20mm on vertical edges and at maximum 10mm on top. The installation gap should be filled with mineral wool (density at least 40kg/m<sup>3</sup>).

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The type approval certificate is based on the initial inspection of the production by Inspecta Sertifointi Oy and on testing at notified laboratories according to EN16034.

The decision is valid provided that the requirements included in the General Rules for Product Certification and the above-mentioned regulations and documents are continuously met. Inspecta Sertifointi Oy controls continuously the internal production quality control carried out by the manufacturer. Type approval certificate is withdrawn if the construction product does not fulfill the requirements of Land Use and Building Act and the regulation of essential technical requirements, which are given on behalf of Land Use and Building Act. If the product is transferred to the scope of the CE-marking, the type approval expires. The validity of the decision can be checked at [www.kiwa.com/fi](http://www.kiwa.com/fi).

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