

## ÉMI ÉPÍTÉSÜGYI MINŐSÉGELLENŐRZŐ INNOVÁCIÓS NONPROFIT KORLÁTOLT FELELŐSSÉGŰ TÁRSASÁG

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E-mail: info@emi.hu Honlap: http://www.emi.hu ÉMI NON-PROFIT LIMITED LIABILITY COMPANY FOR QUALITY CONTROL AND INNOVATION IN BUILDING

ÉMI SOCIÉTÉ Á BUT NON LUCRATIF POUR LE CONTRÔLE DE QUALITÉ ET L'INNOVATION DU BÂTIMENT, RESPONSABILITÉ LIMITÉE ÉMI NON-PROFIT GESELLSCHAFT FÜR QUALITÄTSKONTROLLE UND INNOVATION IM BAUWESEN MIT BESCHRÄNKTER HAFTUNG

#### A-705/2011

# ÉME

#### TECHNICAL APPROVAL

Name of the product:

**INVADO** interior doors

Intended application of product:

Recommended field of application of INVADO interior doors

under normal load:

dwellings, apartment buildings, smaller

public buildings

under medium load: public buildings and other premises at places (corridor, etc.) which correspond to the specifications of

the field of application).

Applicant:

INVADO SPÓLKA Z.o.o.

as the holder of the technical approval ÉME

Product manufacturer:

PL-42-793 CIASNA, Dzielna, ul. Lesna 2.

INVADO SPÓLKA Z.o.o.

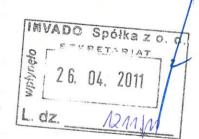
PL-42-793 CIASNA, Dzielna, ul. Lesna 2.

ÉMI Nonprofit Kft. code (SZRJ):

2.2.3.2.1. Wooden entrance door

**ÉME** validity ends on

31.03.2016



Budapest, March 03, 2011.

This Technical Approval comprises 10 pages including - numbered and sealed enclosure

Vida Attila managing director

Clause: "This document is issued by ÉMI Kht. to certify that this approval issued in the English language is identical in substance with the original document and may be used just like the original approval. In the case of a legal dispute, the contents of the original Hungarian document and its interpretation shall govern.

KBiA-II-04.(A)-2010.09.01

#### I. LEGAL REGULATIONS AND GENERAL CONDITIONS

- 1. This ÉME has been issued by Építésügyi Minőségellenőrző Innovációs Nonprofit Kft., on the basis of the following:
  - Joint Decree 3/2003 (I. 25) BM-GKM-KvVM on the detailed regulations applying to the technical requirements, conformity certification, distribution and use of construction products,
  - the marking featuring in Communiqué 16/1998 (IKK.8) IKIM,
  - assessment of test results detailed in the Conformity Assessment Test Report with the same marking and date as this ÉME.
- 2. The holder of the Technical Approval ÉME the natural or legal entity, who (which) requested it directly or through its representative and for whom (which) ÉME was issued by ÉMI Nonprofit Kft. is responsible to make sure that the product corresponds to the ÉME specifications and furthermore that the user receives all information necessary for application in the intended field.
- 3. ÉMI Nonprofit Kft. as the approving organisation is entitled to check compliance with the ÉME specifications and to examine whether the product corresponds with the technical specification. The follow-up inspection may be carried out by ÉMI Nonprofit Kft. at the applicant's cost in a laboratory, at the production site, at the applicant's site and at a reference site where the product is installed.
- 4. The ÉME may only be used by its holder as a technical specification for issuing the conformity certificate. It may not be conferred upon any other party by the ÉME holder. The ÉME only applies to a product manufactured at the production sites shown.
- 5. If within the validity period of ÉME a homologised and harmonised European standard is issued covering the product, ÉMI Nonprofit Kft. must withdraw the ÉME pursuant to the Joint Decree 3/2003 (I. 25) BM-GKM-KvVM within one year of publication, except when the product substantially deviates from the stipulations of the standard.
- 6. ÉMI Nonprofit Kft. may withdraw the ÉME applying to the product if the follow-up inspection cannot be performed or the result of inspection is not satisfactory, or it becomes clear that the product is not fit for the intended purpose. The holder of the ÉME is obliged to report any change in the characteristics of the product or its manufacturing conditions. Next, it will be ÉMI Nonprofit Kft.'s turn to decide whether the ÉME continues to be in force or a new process is to be initiated with the ÉME withdrawn. If inspections are necessary to decide this matter, ÉMI Nonprofit Kft. may suspend the validity of ÉME for this period.
- 7. ÉME is issued by ÉMI Nonprofit Kft. in Hungarian, and on the basis of the applicant's request also in English, German, French or perhaps in other languages. The legal basis is the Hungarian version of the Technical Approval ÉME.
- 8. The ÉME may only be copied or issued on a different data source in its entirety. For any publication as an abstract, the written consent of ÉMI Nonprofit Kft. is required. In case publication is made as an abstract, this fact must be shown. The text and figures in descriptions for advertising purposes may not be contrary to the substance of the Technical Approval ÉME and may not give rise to a misunderstanding.
- 9. The ÉME as a technical specification does not substitute other permits (e.g. health care, construction industry regulatory permits) or certificates (e.g. fire safety, product conformity certification) necessary for distributing, applying, installing and using the product.
- 10. The conformity certification issued on the basis of the Technical Approval ÉME does not make the manufacturer or the distributor eligible for showing the conformity marking CE on the product or its packaging.



# II. SPECIAL CONDITIONS APPLYING TO TECHNICAL APPROVALS IN THE CONSTRUCTION INDUSTRY

#### 1. DETAILS

#### 1.1. Manufacturing site(s) of the product

INVADO Spólka Z o.o. PL-42-793 CIASNA, Dzielna, ul Lesna 2.

## 1.2 Description of the product and its intended application

#### 1.2.1. Product description

**INVADO** interior doors

#### 1.2.2. Brief description of the products

#### INVADO interior doors

Laminated frame door leaves with medium density fibreboard (MDF) and paper honeycomb core, and with veneered, laminate and decorating foil chipboard deal or block frame, which is subsequently mountable and adjustable.

#### Variations:

- With DECORATING foil surface finish
  - Series AQUARIUS, LIBRA, TAURUS
  - Series SAGITTARIUS, LEO, ARIES
  - Series PERUGIA, VERONA
  - Series TORINO
  - Series VIRGO, SCORPIO, GEMINI
  - series MERANO
  - Series NAPOLI
  - VERONA, MODENA, NORMA DECOR

#### With VENEER surface finish

- Series DOMINO
- Series D'ARTAGNAN
- Series ARAMIS
- Series ARAGONA, ASTURIA
- Series ATOS, QUADRO
- Series PORTOS

#### Standard sizes:

- Width: (60) 680, (70) 780, (80) 880, (90) 980mm (single-leaf) (120) 1300, (130) 1400, (140) 1500, (150) 1600, etc. (160), (170), (180) 1900 mm
- Nominal height: (2040) 2065mm.

The manufacturer gives an agreed size designation of 60, 70, 80, 90, etc. according to Polish standard on basis of passable aperture size

The frame structures can be expand to wall thickness 75-280 mm with reveal.



#### Lock options:

- normal lock,
- cylinder lock,
- bathroom lock

Variations:

They are distinguished with type designation and ranged in series on bases of different surface pattern, division modes and surface finishing.

2011.03.31.

A detailed description and the specification of design features are given in the technical documents

#### 2. CHARACTERISTICS AND TESTING/ASSESSMENT METHODS

# 2.1. Technical characteristics of the product, its approved rates and testing/assessment methods

- Standard MSZ EN 14220:2007 includes requirements concerning the raw material.
- Standard (withdrawn) MSZ 9386:1993 includes technical requirements concerning the doors.
- Technical requirements depending on material is specified by standard MSZ 9384-9:1988.
- Heat insulation and energetic characteristics of buildings shall be determined according to order 7/2006 (V.24.) TNM.
- Acoustic requirements for buildings are determined by standard MSZ 15601-2:2007.
- Requirements concerning the reaction to fire class and fire resistance performance of windows and doors structures are determined by National Fire Code (OTSZ) issued as an enclosure of order 9/2008 (II.22.) ÖTM. Standard MSZ EN 13501-1:2007 includes classification of reaction to fire of product.



#### INVADO interior doors -for normal and medium load

## 2.1.1. Mechanical resistance and stability

Product characteristics	unit	Value *	Testing method
Mechanical resistance  – Resistance under vertical loading	N	500 N FT2	MSZ EN 952: 1999
in plane of door leaf	group	Medium resistance to impact (class 2)	MSZ EN 1192:2001
Mechanical resistance - Resistance under static loading	J	150 N ST2	MSZ EN 948:1999
normal to the plane of door leaf	group	Medium resistance to impact (class 1)	MSZ EN 1192:2001
Mechanical resistance  - Resistance under dynamic loading normal to the plane of door leaf	mm csoport	<2 mm DT2 Medium durability	MSZ EN 130:1992 - (2d) MSZ EN 947:2000
Mechanical resistance - Resistance to soft and heavy body	J	120J / 400 mm ÜL3 Low resistance to	MSZ EN 949:2000
impact	group	impact (class 3)	MSZ EN 1192:2001
Mechanical resistance  - Resistance to hard body impact	J	5 J ÜK2	MSZ EN 950:2000
	group	Medium resistance to impact (class 3)	MSZ EN 1192:2001

## 2.1.2. Fire safety

Product characteristics	unit	Value	Testing method
Fire resistance limit	min	Non fireproof/fire retardant	OTSZ part 5. MSZ EN 13501-2: 2008 MSZ EN 1634-1:2000
Fire safety grade	grade	Fire safety grade D	OTSZ part 5. MSZ EN 13501-1:2007 MSZ EN 13501-2: 2008

## 2.1.3. Hygienic, health and environmental considerations

Product characteristics	Unit	Value	Testing method
Ease of cleaning	-	TB	Opening the door, checking of
		Cleanable from inside	documents

Note:



<sup>\*</sup> Requirements on the basis of the (withdrawn) Standard MSZ 9386:1993.

## INVADO interior doors -for normal and medium load

## 2.1.4. Safety of use

Product characteristics	Unit	Value	Testing method
Ease of maintenance and repair	-	Ease of replacement and reconditioning	Checking of documents
Safety of use	piece		Checking of documents,
normal load		hinge fitting: 2 pieces	inspection
medium load		hinge fitting:3 pieces	
Ease of handling,	N, Nm	< 100 N; < 10 Nm	MSZ ISO 8274:1992
Resistance to stress during use	N	300 N; 500 N	MSZ EN 12046-2:2001

#### 2.1.5. Noise and vibration control

Product characteristics	Unit	Value	Testing method
Airborne sound insulation (depends on glazing and inset)	group dB	LH4 Low airborne sound insulation	MSZ 15601-1:2007 MSZ EN ISO 140-3:1998

## 2.1.6. Energy saving and thermal protection

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## 2.1.7. Durability

Product characteristics	Unit	value	Testing method
Long-term ease of use	(cycle)	50.000 cycles	MSZ ISO 9379:1992
	group	TR2 Medium durability	9

## 2.1.8. Other characteristics

Product characteristics	Unit	Rate	Testing method
Technical requirements subject to material	class	(class I/class II)	MSZ 9384-9:1989
Resistance to change in air humidity	class	max. 4mm climate II	by expert appraisal on the basis of MSZ EN 1294:2001
Resistance to environment with two different climates	class mm	max. 4mm climate II	by expert appraisal on the basis of MSZ EN 79:1992

Megjegyzés:

\* Követelmények az MSZ 9386:1993 (Visszavont) szabvány szerint.



## 3. CONFORMITY CERTIFICATION REQUIREMENTS

#### Conformity certification method(s)

On the basis of Directive 93/1999/EC of the Commission, according to Enclosure III of the Council Directive 89/106/EEC, and according to Enclosure 4 of the Joint Decree 3/2003 (I. 25) BM-GKM-KvVM:

## 3.1. (3) system - ii) Supplier's declaration of conformity, second option

if the door is used in such a place where special requirements are to be met, especially from the aspect of noise control and safety of use

- products for medium and high load.

## 3.1.1. The manufacturer's responsibilities

### 3.1.1.1. Factory production control (FPC)

The manufacturer is obliged to develop, document and run such an FPC system, which ensures that the distributed products can be proven to meet the requirements of this Technical Approval ÉME on an ongoing basis.

A manufacturer whose quality management system corresponds to EN ISO 9001 and is based on the requirements applying to factory production control and specified in this Technical Approval ÉME, can be considered to have a factory production control system which meets the demands.

Regarding the product, it is the manufacturer's responsibility to set up, run and control such a factory production control system which ensures the satisfactory quality of products continuously.

The factory production control system shall include:

- the responsibilities necessary in the framework of the conformity certification procedure and the person responsible for this,
- regulations on the qualifications and training of the staff, the manufacturing and testing
  equipment, the raw materials, the supplied products, the manufacturing process, the handling
  of arising discrepancies and complaints and the supervision of factory production control
  system by the manufacturer,
- the tests to be carried out in the framework of factory production control, with the frequency and testing method requirements included in the following table:

Table 1

Tested product characteristics	Testing method	Testing frequency
Dimensions – length and width	length measurement	each delivered
	(mm)	batch
Hazardous material emissions	concentration measurement	annually
Mechanical resistance  - Resistance to hard body impact	impact test MSZ EN 950:2000	annually

 assessment of the results of tests carried out in the framework of factory production control, by comparing these with the results of first type testing.



### 3.1.1.2. Specifying the product characteristics accompanying the product

On the packaging or accompanying documents of the product, the following product characteristics shall be specified:

- name and address of the manufacturer;
- reference to the number of the ÉME approval;
- product type; (door codes)
- dimensions; (interpretation of dimensions in accordance with the standards PN, DIN, MSZ)
- product colour; (surface covering, surface treatment)
- manufacturing date (or a reference code);
- certified product characteristics.

### 3.1.1.3. Issuing of the Supplier's Declaration of Conformity

The declaration to be issued by the manufacturer shall include the following:

- The name, identification symbol (brand name) and address of the construction product supplier (manufacturer, distributor, re-distributor)
- The purpose (field of application) of the construction product and the details necessary for identification along with the manufacturing date and the product type.
- The name and identification number of the appointed (notified) organisation which performed the first type testing to serve as a basis for issuing the declaration of conformity.
- The identifier of this test-based ÉME, as a document which has been complied with by the construction product.
- The validity period of the declaration of conformity.
- The (legible) name and title of the representative authorised to sign the declaration of conformity statement on behalf of the supplier, manufacturer or distributor.
- The identification number of the declaration of conformity, the date of issue and the authorised signature of the issuer.

#### Additional information:

The usage guidelines applying to the product (showing that they have been delivered, are accessible on the manufacturer's home page, etc.).

Formal requirements about the declaration of conformity:

The format of the declaration is not specified. Generally, it is an independent certificate advisably attached upon delivery to the consignment or to the bill of freight. In size and form it may be adjusted to the external appearance of other company documents of the manufacturer, or to the installation, handling and usage guidelines attached to the product.

#### 3.1.2. Responsibilities of the appointed testing laboratory

#### 3.1.2.1.Initial type testing

During the initial type testing, the testing of the following product characteristics as described in section 2 shall be carried out:

- Mechanical resistance (vertical load, static and dynamic twisting, soft and heavy body impact, hard body impact);
- Fire resistance limit, Fire safety grade (if this is an important characteristic);
- Ease of handling, resistance to stress in use, safety;
- Airborne sound insulation;
- Long-term ease of use;
- Resistance to a change in air humidity, and to the impact of two different climates.

By making use of the results of conformity assessment tests carried out prior to issuing the Technical Approval ÉME, the appointed testing laboratory may compile the initial type testing documents, provided that the specifications of the standard covering this requirement are met.



## 3.2. (4) system - ii) Supplier's declaration of conformity, third option

if the door is only used for interior communication.

- products for normal load

## 3.2.1. The manufacturer's responsibilities

Factory production control (FPC)

See the description in Sections 3.1.1.

### 3.2.2. Responsibilities of the appointed testing laboratory

First type testing

See the description in Section 3.1.2.

## 4. ALKALMASSÁGI FELTÉTELEK, AJÁNLÁSOK

#### 4. CONDITIONS OF COMPLIANCE, RECOMMENDATIONS

### 4.1. Conditions of compliance

## 4.1.1. Product, manufacturing

Structures having dimensions larger than those featuring in the list of dimensions and integrated structures may only be applied subject to individual control.

#### 4.1.2. Distribution

In distributing INVADO interior doors, the installation, handling and maintenance instructions of the products as well as the supplier's declaration of conformity shall be attached in all cases.

The technical parameters featuring in the Tables of Sections 2.1. and the recommended field of application shall be shown in the declaration of conformity attached to the product.

#### 4.1.3. Installation (design and implementation)

From the aspect of climatic considerations, INVADO interior doors may be applied in the following places:

Climatic category II: between premises where the climatic rates between the two premises are within the following range:

$$t = 23 \text{ C}^{\circ}$$
, RL = 30 % and  $t = 13 \text{ C}^{\circ}$ , RL = 65 %

INVADO interior doors can be classified in low airborne sound insulation LH4 and can be applied in places where the weighted airborne sound insulation requirement is not higher than the rate  $R_w(C, C_{tr})$  determined for the type.

The INVADO type interior door structures can be classified in fire safety grade D and the doors do not have a fire resistance limit. In buildings and premises falling into fire risk grades A and B and furthermore in places where a fire resistance limit requirement is imposed on them (fire resistance limit, smoke blocking ability), they may not be used for fire safety reasons.



#### 4.2. Recommendations

## 4.2.1. Recommendations for packaging, transport and storage

INVADO interior doors may only be transported and stored in a way that they are protected from surface damage hindering application operationally and in shape.

It is recommended to show such information and markings on the packaging of the products which are suitable for the unambiguous identification of the products. Such information and markings can be:

- the manufacturer's name and address;
- reference to the number of the technical approval ÉME;
- product type; (door codes)
- dimensions; (the interpretation of dimensions in accordance with the standards PL, DIN, MSZ)
- product colour; (surface covering, surface treatment)
- manufacturing date (or a reference code);
- proposed conditions of storage.

### 4.2.2. Recommendations for installation, use, maintenance and repair

In distributing INVADO interior doors, the Hungarian installation, handling and maintenance instructions for informing customers shall be attached in all cases to the products. The installation and usage of the products may only take place accordingly.

It is not recommended to use deep and half-glazed doors in places where the chance of harsh use and accident prevails.

#### 5. FOLLOW-UP INSPECTION AND OTHER CONDITIONS

# 5.1. Follow-up inspections to be carried out during the validity of the Technical Approval ÉME

Follow-up inspections to be carried out during the validity period of the Technical Approval: every two years, until 31 March

The deadline of the first assignment to be placed with ÉMI Nonprofit Kft. about the performing of a follow-up inspection is **31 March 2013.** If the follow-up inspection obligation is neglected, the Technical Approval ÉME becomes null and void and ÉMI Nonprofit Kft. deletes it from the database of valid Technical Approvals.

## 5.2. Other conditions of the Technical Approval ÉME

A sample of the descriptions and leaflets applying to the current product range and those of the applied suppliers' declarations of conformity shall be submitted at the time of the followup inspection.

#### 6. ENCLOSURES

Imre Papp Project Manager

Péter Sólyomi Project Manager, Head of the Laboratory of Building Physics

