

EXTERIOR DOORS

Eco Technology

Eco POLAR PASSIVE

Eco POLAR

Eco NORD



ENERGY
SAVING



QUALITY
100%



PASSIVE
STANDARD



Quality

100%
NATURE

QUALITY CONFIRMED BY AN EXPERT

Doors, in accordance with their purpose, constitute both a boundary and a passage. They can be closed or open. There is no third option – it's simple. And in that uncomplicated situation lies the beauty.

Tracing the history of doors, with a rich diversity of their forms appearing throughout the ages can be most intriguing. Fully aware of this are contemporary designers, who seek inspirations in the past to please the various tastes of their clients. Hence the variety and wealth of offers which unfortunately can be often described as a triumph of form over content.

If we made an assumption that doors are an image of two entwining spheres, the internal and the external, we would be close to the notion of Walter Gropius, creator of Bauhaus that an object should be visually attractive as well as functional. That is not far from the views of F.L. Wright who was convinced that an object should be in composition and become one with its surroundings. That brings us very near to Corbusier or Mies van der Rohe, who became the spiritual father of minimalism and brutalism. His famous aphorism "less is more" comes to mind when looking at doors created by the Design Department at Porta KMI Poland. They seem to follow the extraordinary masters' main assumptions. Their doors are refined in their visual simplicity and almost renaissance harmony. They represent beauty, elegance and strength, which is a rather significant factor when it comes to designing the boundary of our home which is supposed to make us feel safe. They function as if they were a synthesis of the main principles of life.

The construction of the exterior door is in agreement with L.H. Sullivan's rule, that the form is an outcome of function and it also makes these doors blend with the building, its interior and all of its surroundings. Today's world is struggling with numerous problems, not only of the political and social kind, but also those in the energy sector. The energy expenses constantly get higher which often leads to complicated economic situations, which no longer concern state governments but also the common citizen. Saving energy is no longer an ecological trend – it has become a demand. A demand which, in turn, has converted into norm. Fully aware of this are door creators at Porta KMI Poland. The answer to these ecological and energetic requirements is passive house, a solution that is getting more and more popular. This new type of home construction originating in Germany was conceived by a German physicist Wolfgang Feist. It has been later developed and popularised by the Passive House Institute in Darmstadt.

Porta KMI Poland has prepared an offer tailored to the most challenging passive house norms, which are represented in our ECO doors range. Unlike the standard construction doors, they possess the quality of the heat retardant factor of $U_d = 0,7 [W/m^2K]$ in models from the PORTA Eco POLAR PASSIVE. Additionally, the ECO range doors are equipped with the innovatively designed "warm thresholds". This novelty threshold innovation is based on using materials with elevated heat retardant properties. To reinforce the exposed parts of the threshold, a profiled stainless steel sheet is used. Furthermore it is free from any type of a thermal bridge. A large part of the energetic effectiveness of the door comes from applying adequate isolating materials in door construction. Equally important is the sealing of the doors edges and application of appropriate glazing with thermal insulation. However, only the proper installation ensures a significant elevation of thermal insulation and achievement of vapour tightness. This stage is exceptionally important to the passive house design, in which the ventilation system is combined with the heat retrieval system, which recaptures all the warm air emitted by the building.

To sum it all up it is necessary to emphasize that the Porta KMI Poland doors are a conglomeration of not only exceptional design set in tradition and building a bridge to modern styles, but also they reflect the newest technological trends ensuring the safety of the user on every level of his needs concerning this seemingly uncomplicated when it comes to its function object that is the door. There is no other way.

Doctor Witold Skrzypek
Graduate of the Academy of Fine Arts in Kraków, Poland
Scholarship at Ecole le Beaux- Art in Saint Etienne,
Scholarship of the Secretary of Culture and the Arts



INNOVATIVE ECO TECHNOLOGY

The innovative Eco Technology by Porta is summed up by six main features, which define the high standard in external doors. It is a set of tailored values creating the highest quality. The Eco range doors are manufactured from laminated Oak and covered in natural veneer.



ENERGY SAVING

The Energy Efficiency makes your heating costs drop significantly.



PASSIVE STANDARD

Innovative passive technology is currently the most energy efficient solution applied in construction.



ECO FRIENDLY

The environment-friendly solutions used during production and everyday use.



WARRANTY STANDARD

Quality for years, 3 years of warranty.



MODERN DESIGN

Contemporary style, tested solutions.



QUALITY 100%

The highest quality guaranteed by PORTA. Innovative technology created by specialists.

THEY HAVE TRUSTED US:

The Consumer
Quality Leader
Award 2012



Construction Brand
of the Year
Award 2013



Guaranteed quality.
The Eco range doors
are manufactured
from laminated
Oak timber.



BE ECO, SAVE ENERGY

Innovative Eco Technology by PORTA is a set of the highest quality materials and advanced technology, which defines the PREMIUM class exterior doors with the factor of thermal conductance of 0,7 W/m²K.

According to the National Environmental and Water Resource Fund, the houses which consume < 40 kWh/m² of energy annually are considered to be energy saving, and houses with that factor on the level of < 15 kWh/m² are passive buildings. At the same time, standard construction houses use > 100 kWh/m² of energy in the same timespan.

For external doors in single-family housing the Ud factor cannot go over 0,8 W/m²K (I, II, III Climate class) and 0,7 W/m²K (IV, V Climate class) in the NF15 standard and 1,3 W/m²K in the NF40 standard.

The 2010/31/EU Directive of the European Parliament and Council from the 19th of May 2010 on the Energy features of the buildings, instructs the Member States to reach a situation where by the end of the year 2020 all of the newly built buildings will be objects of "almost zero-level energy loss".

| ESTIMATED COSTS (in PLN) OF HEATING HOUSES WITH THE USABLE AREA OF 130 sq.m., BUILT IN DIFFERENT ENERGY STANDARDS, PRICES OF FUEL FROM THE 1st QUARTER OF 2013 | | | | | | |
|---|------|---------|-------------|-------------|------------|-------------|
| Energy Source | Coal | Pellets | Natural gas | Heating oil | Liquid gas | Electricity |
| The cost of heating | 0,2 | 0,24 | 0,27 | 0,38 | 0,42 | 0,49 |
| Annual cost of heating a standard construction house | 3120 | 3744 | 4212 | 5928 | 6552 | 7644 |
| Annual cost of heating a NF40 house | 1040 | 1248 | 1404 | 1976 | 2184 | 2548 |
| Annual cost of heating a passive house | 390 | 468 | 527 | 741 | 819 | 956 |



Porta SaveEnergy*

The system of warm installation eliminates potential thermal bridging, securing the insulation construction of the building (combining the door frame and the wall) against frost and water penetration.



Porta ThermControl*

The patented construction, the highest quality components (stainless steel) – all this guarantees durability and high aesthetics for years to come.

The advantages of being Eco can reach up to **thousands of (EUR?) annually saved on heating.**

* Trademark registered.

Eco POLAR PASSIVE

U_d=0.7
W/m²K
 THE THERMAL
 PENETRATION
 FACTOR



CONSTRUCTION

The board construction manufactured from Oak laminated timber. Door leaf thickness of 80 mm. Three seals over the perimeter of the leaf. This construction is filled with high quality expanded polystyrene.



DOOR FRAME

The door frame is manufactured from multi-layered laminated Oak. The French edge by the hinges prevents the door from being unhinged.

3D HINGES

3D

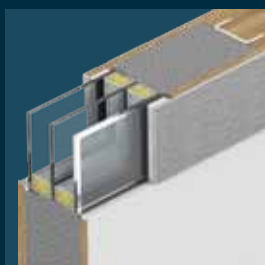
THRESHOLD

Warm threshold **Porta ThermControl*** with thermal breaks manufactured from selected laminated Oak, reduces heat loss and prevents vapour precipitation. The patented construction, highest quality components (stainless steel) guarantee durability and high aesthetics for years to come.




THE LOCK

Two multi bolt locks. Anti-burglar class 4ENV.



GLAZING + BEADING

Two-chamber glass sets with the factor of $U=0,5 \text{ W/m}^2\text{K}$. The beading frame is stainless steel.

 www.porta.com.pl/dm/ecopolarpassive.wmv

FOR PASSIVE HOMES

THE ECO POLAR PASSIVE DOOR
MEET THE REQUIREMENTS
OF STANDARD NF15.
THIS APPLIES TO BOTH FULL
AND GLAZED MODELS.



The door leaf surface is a unified barrier against weather conditions. The door leaf frame is made of multi-layered laminated Oak additionally reinforced with steel rails. The leaf face is protected from weather conditions by a three-layer varnishing system

This doors standard equipment includes the warm threshold **Porta ThermControl***, which is resistant to thermal bridges.

THE DOORS SPECIAL FEATURES

The door possesses anti-burglary safety measures thanks to using

- The multi-bolt class 4ENV locks
- The French edge which protects the door from being unhinged
- The anti-burglar glazing Class P4

The doors are equipped with a **triple-seal system on the perimeter**, which guarantees excellent resistance against weather conditions- wind, water and temperature.

With the help of the **3D hinges** you can ensure proper space between the leaf and the frame, both horizontally and vertically.

The version that opens inwards is equipped with a drip-stop to eliminate the flooding of the threshold during rainfalls accumulated with strong winds.

The French edge is a solution based on the specifically designed rebate (another word for "edge") on the length of the leaf and frame causing them to fit exactly, protecting against trials of unhinging the door leaf, even after the hinges have been cut off which is extremely important for the doors that open outwards.

The door has a factor of heat penetration of $U_d = 0,72 [W/m^2K]$ for the reference doors. The detailed parameters can be found in a table on page 21.



FULL

MODEL 1

MODEL 2

MODEL 3

MODEL 4

MODEL 5



size „90“, „100“

EXTRA-CHARGES

- A set with a single transom
- A set with two transoms

Transom measurements—See page 21.

* Trademark registered .

Eco POLAR PASSIVE

The possibilities and examples of standard and contract solutions.

U_d=0.7
W/m²K
THE THERMAL
PENETRATION
FACTOR



FULL

colour: Oak 5

fittings: plain handle

door handle: CORTES with "knob" grip



FULL + TRANSOM

colour: Oak 5

fittings: plain handle

Door handle: CORTES with "knob" grip



MODEL 3 + TRANSOMS

colour: Anthracite

fittings: plain handle

Door handle: CORTES with "knob" grip



MODEL 3

colour: Anthracite

fittings: plain handle

Door handle: CORTES with "knob" grip

 Non-standard production, prepared by the Export Porta Contract Department.



ACCESSORIES / See page 19 >
TABLE OF MEASUREMENTS / See page 21 >
AVAILABLE Colours / See page 23 >



MODEL 1
colour:  RAL 6001
fittings: CORTES handles
with a standard grip



MODEL 2
colour:  RAL 3000
fittings: CORTES handles
with a standard grip



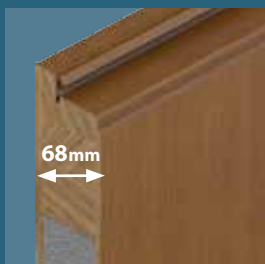
MODEL 4 + TRANSOMS
colour: Tabacco
fittings: CORTES handles
with a standard grip



MODEL 5
colour: Oak 4
fittings: CORTES handles
with a standard grip

Eco POLAR

U_d=0.8
W/m²K
THE THERMAL
PENETRATION
FACTOR



CONSTRUCTION

The doors board construction and its frame are made of laminated Oak. It is covered with natural veneer. The door leaf thickness is 68 mm. Two seals on the perimeter of the leaf. Filled with high quality expanded polystyrene.



DOOR FRAME

The door frame is manufactured from multi-layered laminated Oak. The French edge by the hinges prevent the door from being unhinged.

3D HINGES

3D

THRESHOLD

The Warm **Porta ThermControl[®]** threshold with thermal breaks manufactured from selected laminated Oak, reduces heat loss and prevents vapour precipitation. The patented construction, highest quality components (stainless steel) guarantee durability and high aesthetics for years to come.



THE LOCK

Two multi bolt locks, Anti-burglar class 4ENV.



GLAZING + BEADING

Two-chamber glass sets with the factor of $U=0,5 \text{ W/m}^2\text{K}$. The beading frame is stainless steel.



 www.porta.com.pl/dm/ecopolar.wmv

THE ECO POLAR PASSIVE DOOR
MEET THE REQUIREMENTS
OF STANDARD NF15 (FULL MODEL)
AND NF40 (GLAZED MODELS).



BE ECO, SAVE ENERGY

The door leaf surface is a unified barrier against weather conditions. The door leaf frame is made of multi-layered laminated Oak additionally reinforced with steel rails. The leaf face is protected from weather conditions by a three-layer varnishing system

This doors standard equipment includes the warm threshold **Porta ThermControl***, which is resistant to thermal bridges.

THE DOORS SPECIAL FEATURES

The door possesses anti-burglary safety measures thanks to using

- The multi-bolt class 4ENV locks
- The French edge which protects the door from being unhinged
- The anti-burglar glazing Class P4

The doors are equipped with a **triple-seal system on the perimeter**, which guarantees excellent resistance against weather conditions- wind, water and temperature.

With the help of the **3D hinges** you can ensure proper space between the leaf and the frame, both horizontally and vertically.

The version that opens inwards is equipped with a drip-stop to eliminate the flooding of the threshold during rainfalls accumulated with strong winds.

The French edge is a solution based on the specifically designed rebate (another word for "edge") on the length of the leaf and frame causing them to fit exactly, protecting against trials of unhinging the door leaf, even after the hinges have been cut off which is extremely important for the doors that open outwards.

The door has a factor of heat penetration of $U_d = 0,82 [W/m^2K]$ for the reference doors. The detailed parameters can be found in a table on page 21.



FULL

MODEL 1

MODEL 2

MODEL 3

MODEL 4

MODEL 5



size „90“, „100“

EXTRA-CHARGES

- A set with a single transom
- A set with two transoms

Transom measurements—See page 21.

* Trademark registered .

Eco POLAR

The possibilities and examples of standard and contract solutions.

U_d=0.8
W/m²K
THE THERMAL
PENETRATION
FACTOR



FULL

colour: Oak 6
fittings: curved handle,
GLOBER handle
with "knob" grip



MODEL 1

colour: Oak 3
fittings: CORTES handle
with "knob" grip




MODEL 2 + FULL TRANSOM

colour: Oak 5
fittings: CORTES handle
with standard grip



MODEL 3

colour: RAL 8023
fittings: plain handle,
CORTES handle with "knob" grip

 Non-standard production prepared by the Porta Export Contract Department.



ACCESSORIES / See page 19 >
TABLE OF MEASUREMENTS / See page 21 >
AVAILABLE Colours / See page 23 >



MODEL 1 + TRANSOMS

colour: Oak 3
fittings: CORTES handle
with standard grip



MODEL 2

colour: Oak 3
fittings: CORTES handle
with standard grip



MODEL 4

colour:  RAL 5008
fittings: CORTES handle
with standard grip

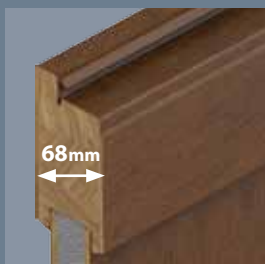


MODEL 5 + TRANSOM

colour:  RAL 6001
fittings: CORTES handle
with standard grip

Eco NORD

Ud=1.1
W/m²K
THE THERMAL
PENETRATION
FACTOR



CONSTRUCTION

The doors frame-board construction and are made of laminated Oak. It is covered with natural veneer. The door leaf thickness is 68 mm. Two seals on the perimeter of the leaf. Filled with high quality expanded polystyrene.



DOOR FRAME

The door frame is manufactured from multi-layered laminated Oak. The French edge by the hinges prevent the door from being unhinged.

3D HINGES

3D

THRESHOLD

The Warm **Porta ThermControl*** threshold with thermal breaks manufactured from selected laminated Oak, reduces heat loss and prevents vapour precipitation. The patented construction, highest quality components (stainless steel) guarantee durability and high aesthetics for years to come.



THE LOCK

Two multi bolt locks, Anti-burglar class 4ENV.



GLAZING + BEADING

Glass set with a warm beading. The beading frame is stainless steel.



 www.porta.com.pl/dm/econord.wmv



BE ECO, SAVE ENERGY

The door leaf surface is a unified barrier against weather conditions. The door leaf frame is made of multi-layered laminated Oak additionally reinforced with steel rails. The leaf face is protected from weather conditions by a three-layer varnishing system

This doors standard equipment includes the warm threshold **Porta ThermControl***, which is resistant to thermal bridges.

THE DOORS SPECIAL FEATURES

The door possesses anti-burglary safety measures thanks to using

- The multi-bolt class 4ENV locks
- The French edge which protects the door from being unhinged
- The anti-burglar glazing Class P4

The doors are equipped with a **triple-seal system on the perimeter**, which guarantees excellent resistance against weather conditions- wind, water and temperature.

With the help of the **3D hinges** you can ensure proper space between the leaf and the frame, both horizontally and vertically.

The version that opens inwards is equipped with a drip-stop to eliminate the flooding of the threshold during rainfalls accumulated with strong winds.

The French edge is a solution based on the specifically designed rebate (another word for "edge") on the length of the leaf and frame causing them to fit exactly, protecting against trials of unhinging the door leaf, even after the hinges have been cut off which is extremely important for the doors that open outwards.

The door has a factor of heat penetration of $U_d = 1,1$ [W/m²K] for the reference doors. The detailed parameters can be found in a table on page 21.



FULL

MODEL 1

MODEL 2

MODEL 3

MODEL 4

MODEL 5



size „90“, „100“

EXTRA-CHARGES

- A set with a single transom
- A set with two transoms

Transom measurements—See page 21.

* Trademark registered .

Eco NORD

The possibilities and examples of standard and contract solutions.

Ud= 1.1
W/m²K
THE THERMAL
PENETRATION
FACTOR



FULL

colour: Nero
fittings: GLOBER handle
with standard grip




FULL + TRANSOMS

colour: Nero
fittings: GLOBER handle
with standard grip




MODEL 3 + FULL TRANSOM

colour:  RAL 1019
fittings: GLOBER handle
with "knob" grip



MODEL 3

colour:  RAL 1019
fittings: GLOBER handle
with "knob" grip

 Non-standard production, prepared by the Porta Export Contract Department.



ACCESSORIES / See page 19 >
TABLE OF MEASUREMENTS / See page 21 >
AVAILABLE Colours / See page 23 >



MODEL 1

colour:  RAL 7034
fittings: CORTES handle
with "knob" grip



MODEL 2

colour: Oak 1
fittings: CORTES handle
with standard grip



MODEL 4 + TRANSOMS

colour: Oak 2
fittings: CORTES handle
with standard grip



MODEL 5

colour:  RAL 3000
fittings: CORTES handle
with standard grip

THE Porta Synergy* TRANSOM CONSTRUCTION SYSTEM

In case of installation of transoms, a side edge of the transom in connection with the upper beam and the threshold becomes a part of the door frame. This innovative method of combining transoms enabled us to get rid of any thermal bridges and made the installation process much easier.

THE THRESHOLD

The warm **Porta ThermControl*** threshold with thermal breaks manufactured from selected laminated Oak, reduces heat loss and prevents vapour precipitation. The patented construction, highest quality components (stainless steel) guarantee durability and high aesthetics for years to come.



THE FRAME OF THE TRANSOM

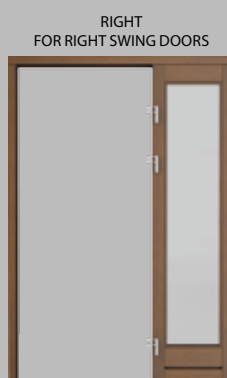
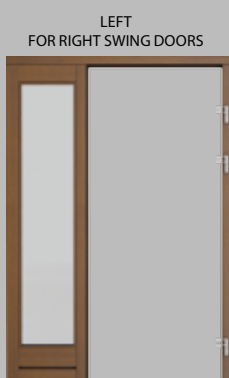
The seal on the frame-leaf connection over the whole perimeter guarantees full resistance of the system to weather conditions: wind, water and temperature.

3D HINGES



TRANSOM EXAMPLES

The side of the transom is determined looking at the side with visible hinges



CAUTION! To ensure that all the utility properties of the external Eco door are maintained, proper operation is recommended:

1. The external door should be secured against direct sunlight or rainfall exposure by installing them in niches in the wall or using a roofing over the door in cases of single-surface walls. The canopy should extend over the whole area of the operating door and ensure protection during summertime noon sunlight.
2. The distance to the nearest heater should be at least 150cm. It is recommended to leave the vestibule unheated.
3. The installation is performed on ready floors in prepared wall openings after all masonry wet-works are done and the plaster wall on the walls has dried out.

ACCESSORIES



Class "B" anti-theft cylinder inserts



colour:
silver matt

TYPES OF CYLINDER INSERTS

| model | fittings | doors opened outwards | doors opened inwards |
|----------------------------|-----------------------|--------------------------|-------------------------|
| Eco POLAR PASSIVE | CORTES, GLOBER | 50°/50 | 50/45° |
| Eco POLAR, Eco NORD | CORTES, GLOBER | 35°/55 | 40/50° |

The * shows the side of the knob in the insert.

HINGE COVERS



colour: silver matt
(a set per single hinge)

HANDLE BARS

The straight and curved handle bars cannot be applied to the Eco NORD range.
Installation measurements:
www.porta.com.pl/dm/uchwytyeco.pdf



CORTES Anti-theft (European Class I) HANDLES

A product of a reputable European company.



UPPER ESCUTCHEON



CORTES HANDLE SET
with standard grip
colour: silver matt



UPPER ESCUTCHEON



CORTES HANDLE SET
with "knob" grip
colour: silver matt



GLOBER Anti-theft (European Class I) HANDLES

A product of a reputable European company.



UPPER ESCUTCHEON



GLOBER HANDLE SET
with standard grip
colour: silver matt



UPPER ESCUTCHEON



GLOBER HANDLE SET
with "knob" grip
colour: silver matt



CURVED
stainless steel

STRAIGHT
stainless steel

Can be used only
with full models.

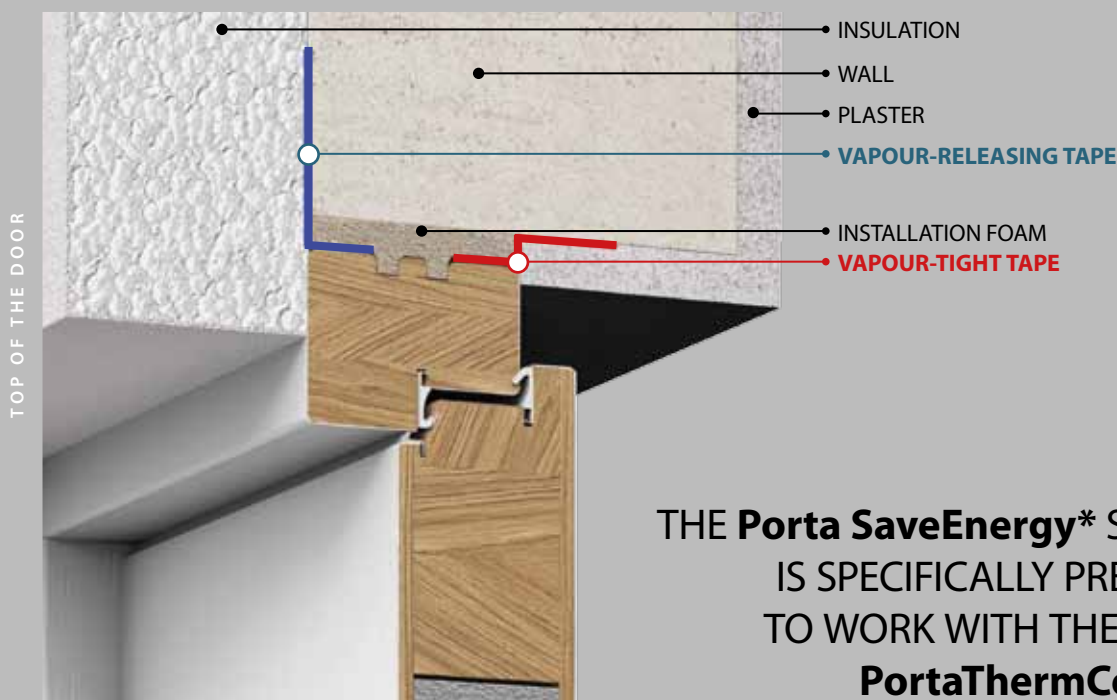
WARM Porta SaveEnergy*

SYSTEM INSTALLATION

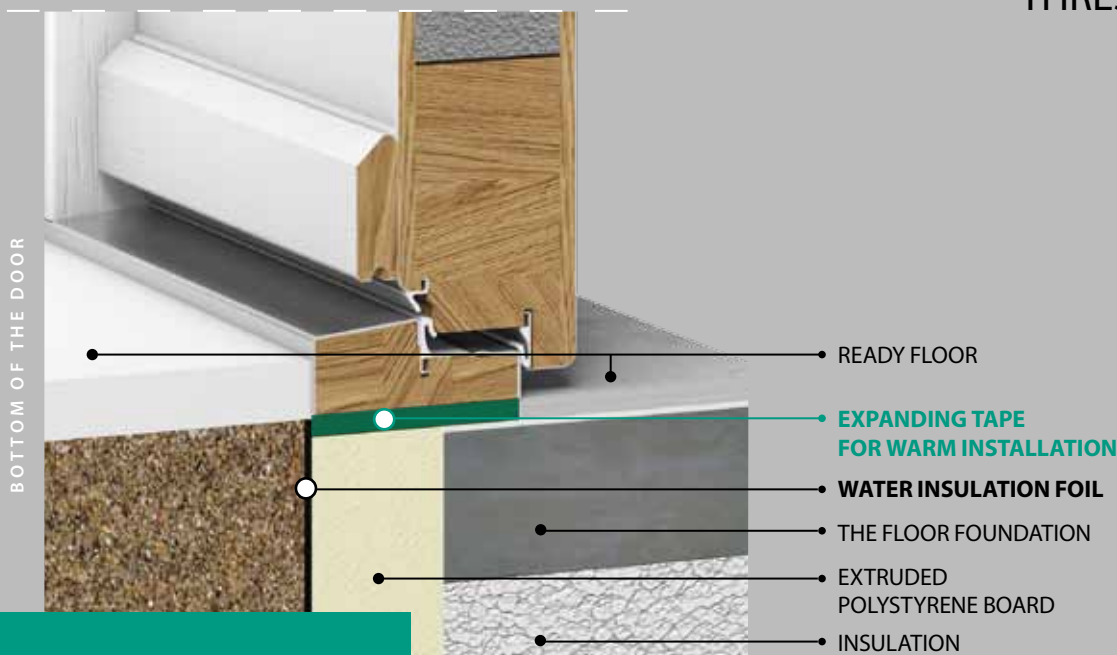
The **Porta SaveEnergy*** installation does a great job eliminating thermal bridges, securing the thermal insulation of the building from water and frost penetration. Additionally it provides the proper ventilation, which is really helpful when the differences in temperatures create moisture which is best kept out of the building.

The resources used for warm installation have to meet the requirements of the so-called **three-layer installation**. Internal layer – **vapour-tight, internal thermal insulating layer, external vapour-releasing layer**.

The whole thing works according to the rule – keep the inside tighter than the outside. The warm **Porta SaveEnergy** installation system should be performed by a qualified and certified Installation Group.



THE **Porta SaveEnergy*** SYSTEM
IS SPECIFICALLY PREPARED
TO WORK WITH THE WARM
PortaThermControl*
THRESHOLD.



TECHNICAL INFORMATION

Presented dimensions in PN standard.

| NAME | SIZE | S _s | H _s | D _s | S _o | H _o | O _s | O _w | S _b | H _b | T _{s/w} |
|----------------------------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Eco POLAR PASSIVE | 90 | 967 | 2049 | 79 | 1090 | 2135 | 920 | 2010 | 1060 | 2116 | ±10 / ±10 |
| side transom | 90+30 | 967 | 2067 | 79 | 1390 | 2135 | 920 | 2010 | 1360 | 2116 | |
| two side transoms | 30+90+30 | 967 | 2067 | 79 | 1690 | 2135 | 920 | 2010 | 1660 | 2116 | |
| side transom | 90+40 | 967 | 2067 | 79 | 1490 | 2135 | 920 | 2010 | 1460 | 2116 | |
| two side transoms | 40+90+40 | 967 | 2067 | 79 | 1890 | 2135 | 920 | 2010 | 1860 | 2116 | |
| side transom | 90+50 | 967 | 2067 | 79 | 1590 | 2135 | 920 | 2010 | 1560 | 2116 | |
| two side transoms | 50+90+50 | 967 | 2067 | 79 | 2090 | 2135 | 920 | 2010 | 2060 | 2116 | |
| Eco POLAR PASSIVE | 100 | 1067 | 2067 | 79 | 1190 | 2135 | 1020 | 2010 | 1160 | 2116 | |
| side transom | 100+30 | 1067 | 2067 | 79 | 1490 | 2135 | 1020 | 2010 | 1460 | 2116 | |
| two side transoms | 30+100+30 | 1067 | 2067 | 79 | 1790 | 2135 | 1020 | 2010 | 1760 | 2116 | |
| side transom | 100+40 | 1067 | 2067 | 79 | 1590 | 2135 | 920 | 2010 | 1560 | 2116 | |
| two side transoms | 40+100+40 | 1067 | 2067 | 79 | 1990 | 2135 | 920 | 2010 | 1960 | 2116 | |
| side transom | 100+50 | 1067 | 2067 | 79 | 1690 | 2135 | 920 | 2010 | 1660 | 2116 | |
| two side transoms | 50+100+50 | 1067 | 2067 | 79 | 2190 | 2135 | 920 | 2010 | 2160 | 2116 | |
| Eco POLAR, Eco NORD | 90 | 967 | 2067 | 68 | 1090 | 2135 | 920 | 2010 | 1060 | 2116 | ±10 / ±10 |
| side transom | 90+30 | 967 | 2067 | 68 | 1390 | 2135 | 920 | 2010 | 1360 | 2116 | |
| two side transoms | 30+90+30 | 967 | 2067 | 68 | 1690 | 2135 | 920 | 2010 | 1660 | 2116 | |
| side transom | 90+40 | 967 | 2067 | 68 | 1490 | 2135 | 920 | 2010 | 1460 | 2116 | |
| two side transoms | 40+90+40 | 967 | 2067 | 68 | 1890 | 2135 | 920 | 2010 | 1860 | 2116 | |
| side transom | 90+50 | 967 | 2067 | 68 | 1590 | 2135 | 920 | 2010 | 1560 | 2116 | |
| two side transoms | 50+90+50 | 967 | 2067 | 68 | 2090 | 2135 | 920 | 2010 | 2060 | 2116 | |
| Eco POLAR, Eco NORD | 100 | 1067 | 2067 | 68 | 1190 | 2135 | 1020 | 2010 | 1160 | 2116 | |
| side transom | 100+30 | 1067 | 2067 | 68 | 1490 | 2135 | 1020 | 2010 | 1460 | 2116 | |
| two side transoms | 30+100+30 | 1067 | 2067 | 68 | 1790 | 2135 | 1020 | 2010 | 1760 | 2116 | |
| side transom | 100+40 | 1067 | 2067 | 68 | 1590 | 2135 | 920 | 2010 | 1560 | 2116 | |
| two side transoms | 40+100+40 | 1067 | 2067 | 68 | 1990 | 2135 | 920 | 2010 | 1960 | 2116 | |
| side transom | 100+50 | 1067 | 2067 | 68 | 1690 | 2135 | 920 | 2010 | 1660 | 2116 | |
| two side transoms | 50+100+50 | 1067 | 2067 | 68 | 2190 | 2135 | 920 | 2010 | 2160 | 2116 | |

K ADJUST THE DOOR TO YOUR INDIVIDUAL NEEDS AND MAKE? AN INQUIRY THROUGH PORTA CONTRACT, tel. +48/58 6778 147 or +48/58 6778 131

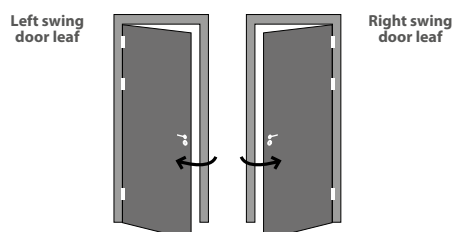
LEGEND

| | | | |
|----------------|---|------------------|---|
| S _s | total leaf width, including rebates | O _s | clear width of the door frame |
| H _s | total leaf height, including rebate | O _w | clear height of the door frame |
| D _s | thickness of door leaf | S _b | width of door frame, door trims excluded |
| S _o | width of wall opening ready for door frame setting | H _b | wysokość ościeżnicy, wymiar bez listew maskujących |
| H _o | height of wall opening ready for door frame setting, measured from the finished floor level | T _{s/w} | permissible deviation from width/height of wall opening |

| NAME | MODELS | THE VALUE OF HEAT PENETRATION | TEST REPORTS | THE PN-EN 14351-1+A1 NORM TESTING |
|--------------------------|--------|-------------------------------|---------------------|-----------------------------------|
| Eco POLAR PASSIVE | glazed | U _d = 0,8 W/m²K | No 043/B – 2013 – 2 | Test Certificate No 043/B-2013 |
| Eco POLAR PASSIVE | full | U _d = 0,72 W/m²K | No 043/B – 2013 – 1 | |
| Eco POLAR | glazed | U _d = 0,9 W/m²K | No 042/B – 2013 – 2 | Test Certificate No 042/B-2013 |
| Eco POLAR | full | U _d = 0,82 W/m²K | No 042/B – 2013 – 1 | |
| Eco NORD | glazed | U _d = 1,2 W/m²K | No 041/B – 2013 – 2 | Test Certificate No NR 041/B-2013 |
| Eco NORD | full | U _d = 1,1 W/m²K | No 041/B – 2013 – 1 | |


THE SWING OF THE DOOR

The swing is determined when looking on the side with hinges.



The product is covered with a **24 month** warranty period.

Using **Authorised Installation Teams** will extend the warranty for the purchased goods by additional **12 months**.



WE TAKE WHAT'S BEST FROM WHAT **NATURE** HAS TO OFFER

The Eco range doors are manufactured
from laminated Oak and covered
with natural veneer.

Quality

100%
NATURE

AVAILABLE COLOURS **THE 2014 TRENDS**

HIGH QUALITY
NATURAL VENEER



Oak 1

ZD1



Oak 2

ZD2



Oak 3

ZD3



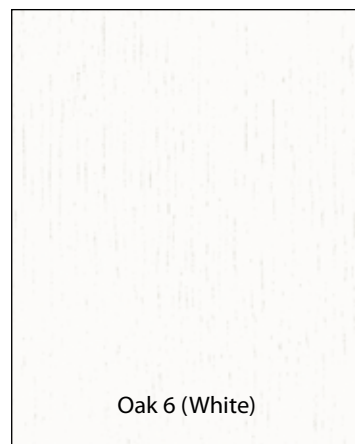
Oak 4

ZD4



Oak 5 (Golden)

ZD5



Oak 6 (White)

ZD6



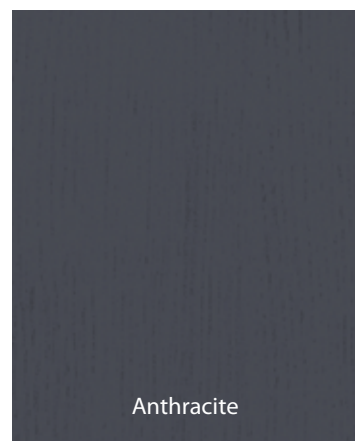
Tabacco

ZTC



Nero

ZNE



Anthracite

ZNT

Due to the unique character of the natural veneers and used varnishing technology there is a possibility of differences in colouring and natural veneer structure.

This product folder is not an offer according to the Polish Civil Code and cannot be applied to the case of special customer sales regulations. Porta KMI Poland Sp z o. o. S.K.A. reserves the right to change the technical parameters, equipment, prices, conditions of extended warranty periods and product specification. The information contained in this folder is up-to-date with the current technology used.

CAUTION! Due to the print technology used, the colour of the shown product may differ from the original.



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