

WINDOWS • EXTERIOR DOORS • INTERIOR DOORS • PATIO DOORS

## The Skaala **Door Book**

One big family since 1956

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### Skaala – a sensible choice

Skaala Windows and Doors Ltd is a Finnish company specialized in delivery and service of complete solutions for doors and windows and was established in 1956. Over the years Skaala has grown from being a local carpenter company to becoming one of the most influential, Nordic manufacturers in the business. Skaala has a large share on the domestic market and exports products to the other Nordic countries, Great Britain and Russia.

## Make a beautiful high-quality home come true

In the eyes of the designer the door adds the finishing touch to a house. The door makes the architectural look complete and creates an individual style. The exterior door is an element of the facade which you often wish to emphasize.

The door is the trademark of the house. It tells something about the inhabitants and creates an image of the lives lived in this house. To the inhabitants of the house the door wishes them "Welcome home", to the visitor it is an invitation to come on in, but it also fills the function of dismissing any unwanted visitors. The atmosphere and the look are most important when constructing the identity of one's home.

A door is also a utility article that must withstand hard duty, be weatherproof and ensure domestic peace.

In times past the front door of a building had a special significance. It was often an ornate proof of wood carving craft, individual and unique. Modern doors, however, should be a result of technical knowhow from various fields. Differences in quality can be measured in features such as durability, safety, service guarantee, density and effective thermal and sound insulation. When delivering specially designed doors which deviate from standardized production, it is vital that the technical quality corresponds to the requirements. A functional quality assurance guarantees that the qualities are attained as promised.

In a good door the pure architectural look is combined with individuality and durable technical quality.

#### Kaisa Vepsäläinen

Architect, SAFA

# Skilful Skaala – A pioneer within energy economics.





Skaala is a renowned pioneer when it comes to energy efficient solutions. Our entire window collection has been divided into the official energy classes. Our new door collection has been developed and built to correspond to the window energy classes\*). Now builders and redecorators are able to choose a complete energy efficient solution, which also matches the style of the apartment or house.

## Windows and doors for old and new buildings – and in different styles

We provide solutions for everything from delivery of a single product to Keys-in-hand delivery of all the doors and windows needed for a house. New elements that we have promoted strongly are industrial design and the collection concept. As a result from our development we are proud to offer our clients consistent and matching product combinations as well as collections well-suited for the customers' homes.



#### **Environment and safety are important issues**

Taking care of safety and the environment is truly a part of our daily routine. By safety we naturally mean both the occupational safety of our employees and the user safety of our products. The materials used in the manufacturing process are utilized fully and any waste is recycled almost altogether.

Our products are environmentally friendly in themselves. Due to their long-term durability and modest need of service they only tie down minimal resources, while their energy efficiency also decreases the residential energy consumption.

#### Welcome to the versatile Skaala

## Create an astonishing appearance without effort!

Our window and door collections reflect some of the most popular traits in contemporary and traditional design and provide you with guidelines when selecting doors and windows for your home. The collections have been customized for certain architectural characteristics and make it easy to find an appropriate solution. Our three extensive collections and our made-to-measure service, which manufactures special orders, smoothly attend to the needs of every builder and redecorator.

Our collections present high-quality windows, exterior, terrace, interior and patio doors which match different architectural styles and interior decorations. The collections are so comprehensive that we can guarantee that our customer service can help you find and manage a suitable solution. As a builder or redecorator you can effortlessly create a tasteful solution based on our collections.

#### High technical quality – without compromising style

Usability, energy economy and environmental friendliness play an important part in the Skaala products. The significant environmental requirements are filled without compromising style. In Skaala's new Door Book you can observe how we have revolutionized the way of thinking in the entire trade by creating comprehensive and distinct collections. To this day our operations are based on the carpenter's principle of made-to-measure orders; for this our company has been recognized for more than 50 years. Nowadays the made-to-measure service at Skaala has expanded to industrial proportions and we are able to take advantage of high-quality materials and the most recent methods. At the same time design and the collection concept have become a crucial part of our operations. The designers at Skaala appreciate the relevance of their work.

Welcome to Skaala! We make it happen.

#### **Panu Turunen**

designer, polytechnic Skaala Windows and Doors Ltd









#### Linear functionality

The windows in the Skaala Skandia collection and the well considered measures represent modern linear architecture. The windows in the Skandia collection belong to Skaala's most energy efficient classes Alpha and Beta. Natural light is allowed to flow in through the openings in the door, the sidelights which complement the design of the door, and the window openings. The different door models and veneers together with numerous colour alternatives

help create a main entrance out of the ordinary. To make the openings less transparent we recommend modern pattern glass. The popular interior doors in the Skaala Skandia collection represent modern linearity. The elegant lever handles give the doors a distinguished look. The soundproof weatherstrippings make the door open and close softly. The door models are also available as soundproof.



#### Mansion romanticism

The Skaala Tradia collection is well suited for mansion-like rebuilding and for restoring old edifices with respect for the original architecture. The windows in the Tradia collection belong to Skaala's most energy efficient classes Alpha and Beta. The made-to-measure orders and the plentiful use of laths go with the mansion-like style and make the object more representative and traditional. The carefully selected veneer and tint options add a finishing touch to the interior decoration.

The main entrances become even more fabulous with facet pattern glass panes and sidelights designed to match the exterior doors. The tree panel patterns and the elegant lathes make the exterior door stylish and balanced. You are able to create practical but beautiful and traditional double doors by combining interior doors and operating sidelights, also available as made-to-measure. The lever handles, which have been designed in the same style as the rest of the collection, add the last touch.



#### Homely comfort and rustic style

The Skaala Familia collection is characterized by traditional architecture and distinct forms. The products in the collection consist of timeless classics and are suitable for many different types of buildings. The windows in the Familia collection belong to energy class Gamma and consume less energy than the values allowed according to current build-

ing regulations. By selecting certain types of outer glass panes you can promote the windows to Skaala's class Beta, which consumes even less energy. The exterior and interior doors in the Skaala Familia collection consist of timeless classics. The interior doors have a grooved panel construction.







#### Skaala Skandia exterior doors

Skaala Skandia exterior doors have been designed to match modern, linear architecture and the distinguished, clean details create an elegant whole. The doors in the collection insulate sound efficiently and are available with both veneered and painted surfaces. You can choose between numerous painted tints and can select the exact kind of finish you would like on your door. The painted doors are delivered with a quality wood frame which is free of knots and has been painted in the same tint as the door. There are also many different kinds of glass. Every door model is available with matching fixed or operating sidelights.

The doors in the Skaala Skandia collection can be ordered with class Alpha or Beta qualities. The exterior doors in class Alpha are delivered with a cover plate which protects the surface of the door. The plate is installed around the key cylinder and the lever handle. Cylinder and handle are not included in the standard delivery. In addition, the door frames for unpainted doors in class Alpha are always made from the same type of hardwood as the door. From the Skaala Collection Matrix you can see which options and qualities the different classes have to offer. Please familiarize yourself with the Collection Matrix on page 61 in this Door Book.

UO 113 S Teak



UO 115 S



UO 114 S



UO 105 S Teak



UO 108 S



UO 109 S

#### Recommended tints and veneers



You can always select a door in any tint you like according to the RAL and NCS colour charts.





UO 101 S embossed



UO 102 S embossed



UO 103 S grooved



UO 104 S grooved



UO 106 S, teak grooved



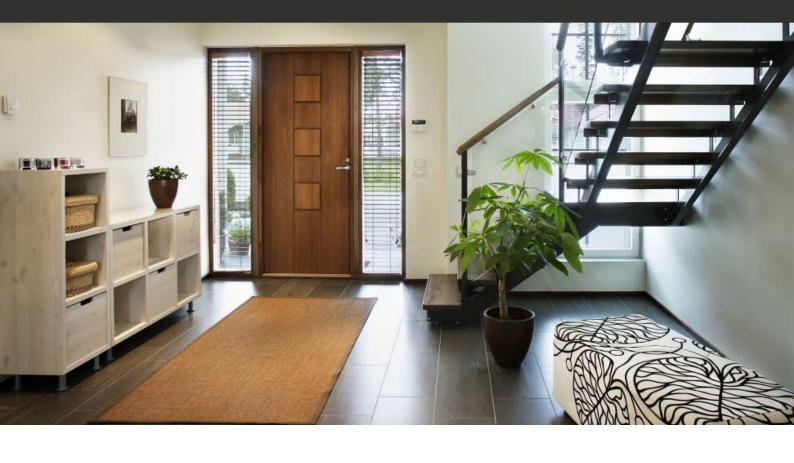
UO 107 S



UO 108 S oak laths



UO 110 S RST-laths





UO 111 S embossed



UO 112 S RST lath



UO 113 S oak



UO 114 S embossed



UO 116 S oak laths



OKL 1 S

OKL 2 S OKL 2 S oak



L 2 S OKL 4 S Pak RST laths





OKL 6 S oak laths



OKL 7 S oak laths



OKL 8 S OKL 9 S oak oak laths laths

OKL 5 S oak

laths



#### Skaala Skandia terrace doors

The linear design of the terrace doors naturally matches the exterior doors and windows in the Skaala Skandia collection. The sill of the light in the terrace door is usually measured to be in line with the windowsills.



## Recommended tints and veneers



You can always select a door in any tint you like according to the RAL and NCS colour charts.



#### Skaala Skandia interior doors

The straight grooves, sidelights and metal laths represent Scandinavian design. The doors' durable and soundproof structure increases the comfort both in the home and in public spaces. The soundproof decibel structure effectively keeps noise from reaching the bedroom or study. You can always choose interior doors for a single room and according to usage. Among the interior doors you will also find impressive double doors. You can choose between several different veneers and tints which match your interior decoration.

- Available as soundproof decibel door
- Available as dividing fire door



SO 104 S eben interior decoration lath

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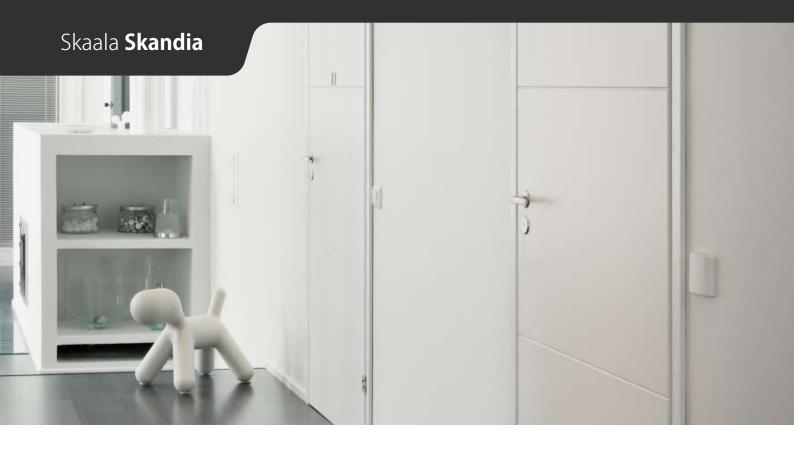


SO 107 S hazelnut frame construction

SO 108 S hazelnut frame construction

SO 105 S frame construction







SO 101 S



SO 101 S V oak



SO 101 S oak



SO 102 S hazelnut interior decoration laths



SO 103 S grooved



SO 104 S hazelnut interior decoration laths



SO 105 S frame construction

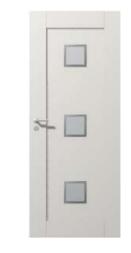


SO 105 S white varnished frame construction





SO 106 S eben interior decoration laths, frame construction



SO 107 S frame construction



SO 108 S frame construction



SO 108 S oak frame construction



SO 109 S hazelnut



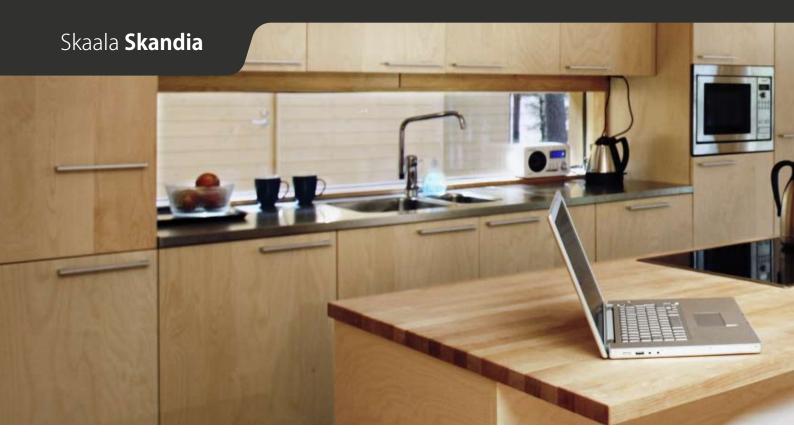
SO 110 S grooved



SO 111 S grooved



SO 102 S interior decoration laths



#### **SKANDIA EXTERIOR DOORS**

#### Construction

The door leaf has a symmetrical structure which is reinforced with sheets of aluminum. The door leaf is 62 mm thick. The reinforced panel structure guarantees that the doors are durable and functional. The door leaf resists warping for many years.

#### Surface

The weatherproof HDF panel is available as painted or veneered. The embossed doors are embossed on both sides. The grooved doors are grooved only on the outside, but can be ordered with grooves on the inside. Standard colour white (NCS S 0502-Y). Other colours can be ordered. The surface of glazed doors has been varnished. Door leafs made of hardwood are finished with tree oil.

#### Glass

The standard delivery for doors with light openings is 3K selective special glass. See pattern glasses on page 60.

#### **Fittings**

LC 100 lock case and adjustable striking plate as standard. 3 break-in preventing hinges which are adjustable sidewise and for different heights. For class Alpha exterior doors a RST lever handle and key cylinder cover plate are standard.

#### Frame

Class Alpha doors have a standard door frame made of quality wood or hardwood, class Beta doors come with a door frame of painted quality wood or glazed pine. Frame depth 115 mm, 131 mm and 175 mm.

#### Threshold

Hardwood threshold, aluminum wear lath.

#### Seal

Double silicone seal.

#### Thermal insulation

Most efficient thermal insulation. Insulation material polystyrene. U-value for massive doors  $\leq$  0.80 W/m²K. U-value for doors with light openings 0.80–1.3 W/m²K depending on the model.

#### Accessories

See the Collection Matrix on page 61 for standard and optional accessories for the Skaala Skandia exterior doors. Available add-ons include: surface fittings (lever handle and key cylinder), electromechanical locks, security locks, security glass, peephole, doorbell, tinted glass and letter-box.

#### Guarantee

Skaala gives a 10 year guarantee for that its exterior doors resist warping and a 2 year guarantee for the construction.

#### **SKANDIA INTERIOR DOORS**

#### Construction

Strong frame construction made of a 6 mm thick MDF panel. Massive wood frame as standard. The door leaf is 40 mm thick.

#### Surface

Painted MDF panel, varnished and glazed doors have a veneer coating. Standard colour white (NCS S 0502-Y). Other colours can be ordered. The surface of glazed doors has been varnished. Grooves and laths on both sides of the door leaf.

#### Glass

See pattern glasses on page 60. The glass panes are also available as laminated or hardened security glass.

#### Fittings

2014 lock case and symmetrical hinges which are adjustable sidewise and for different heights as standard.

#### Frame

Class Alpha doors with veneer coating have a standard door frame made of quality wood; class Beta doors with veneer coating have a glazed pine frame. Painted doors have a standard door frame of quality wood. Frame depth 92 mm. Other depths can be ordered separately.

#### Threshold

A hardwood threshold can be ordered.

#### Seal

The frame has a single seal. The decibel doors have double seals.

#### Inculation

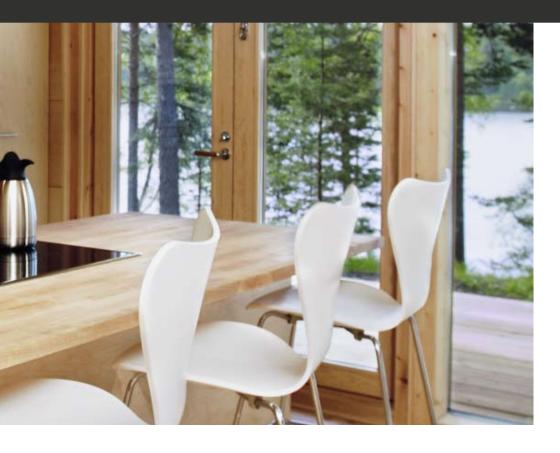
The insulation material used is polystyrene, which reinforces the construction. The decibel doors have a special construction.

#### Accessories

See the Collection Matrix on page 61 for standard and optional accessories for the Skaala Skandia interior doors.

#### Guarantee

Skaala gives a 2 year guarantee for the construction.



## Recommended lever handles







**Abloy Presto** 

As standard the doors are delivered without a lever handle.

## The Skaala Skandia collection is characterized by linear and distinguished details



The double seals, the polystyrene insulation and the energy efficient glazing guarantee that the strongly built Skaala Skandia exterior doors have an effective thermal insulation. The reinforced structure comes with a ten year guarantee for resisting warping. The doors are delivered complete with a durable threshold of hardwood.



The new panel construction has been reinforced by a thick frame of massive wood, which makes the Skaala Skandia interior doors robust, functional and unbreakable. The construction of the thick panel covering is made to last. The class Alpha interior doors are delivered with a door frame made of quality wood, which makes the painted surface most durable.



A decibel structure which efficiently insulates the sound in the home can be combined with several of Skaala's interior doors with panel construction, but only if the door has no light openings. A sound-proof door construction which requires separate air-conditioning in the room is an ideal solution when building a virtually soundless bedroom, study or home cinema.







#### Skaala Tradia exterior doors

The Skaala Tradia exterior doors have been designed for a mansion-like architecture characterized by rich details. The impressive laths in massive wood and the many different glazing options make the traditional style of the facade complete. The doors in the collection insulate sound efficiently and are available with both veneered and painted surfaces. You can choose between numerous painted tints and can select the exact kind of finish you would like on your door. The painted doors are delivered with a quality wood frame which is free of knots and has been painted in the same tint as the door. Every door model is available with matching fixed or operating sidelights.

The doors in the Skaala Tradia collection can be ordered with class Alpha or Beta qualities. The exterior doors in class Alpha are delivered with a cover plate which protects the surface of the door. The plate is installed around the key cylinder and the lever handle. Cylinder and handle are not included in the standard delivery. In addition, the door frames for unpainted doors in class Alpha are always made from the same type of hardwood as the veneer coating on the door. From the Skaala Collection Matrix you can see which options and qualities the different classes have to offer. Please familiarize yourself with the Collection Matrix on page 61 in this Door Book.

UO 207 T teak embossed

**UO 206 T** grooved

CNC-engraved glass



UO 209 T teak embossed



grooved





grooved

#### Recommended tints and veneers

RAL 3011 NCS S 4550-Y90R

blue RAL 5001 NCS S 6030-B

yellow RAL 1015 NCS S 1010-Y20R

grey RAL 7038 NCS S 3502-Y

grey RAL 7035 NCS S 1502-G

white RAL 9010 NCS S 0502-Y



You can always select a door in any tint you like according to the RAL and NCS colour charts.





UO 208 T , teak embossed



UO 209 T , teak embossed



UO 212 T , teak



UO 210 T, oak operating sidelights OAL 3 T, oak CNC-engraved special glass



UO 203 T grooved



UO 204 T grooved



UO 205 T grooved



UO 210 T embossed





UO 211 T double door



OKL 1 T



OKL 2 T



OKL 3 T



OKL 4 T



OKL 5 T OKL 6 T



UO 207 T, teak embossed



UO 207 T, teak operating sidelights OAL 3 T, teak embossed



UO 207 T, teak fixed sidelights OKL 3 T, teak embossed

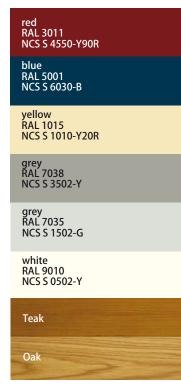


#### Skaala Tradia terrace doors

The laths and window grids naturally match the Skaala Tradia exterior doors and windows. The sill of the light in the terrace door is usually measured to be in line with the windowsills.



## Recommended tints and veneers



You can always select a door in any tint you like according to the RAL and NCS colour charts.



#### Skaala Tradia interior doors

The beautiful laths in massive wood emphasize the traditional architecture and interior decoration. The doors' durable and soundproof structure increases the comfort. The special soundproof door structure effectively keeps noise from reaching the bedroom or study. You can always choose interior doors for a single room and according to usage. Among the interior doors you will also find impressive double doors with engraved glass and grids. You can choose between several different veneers and tints which match your interior decoration.

- Available as soundproof decibel door
- Available as dividing fire door



SO 203 T hazelnut embossed



SO 201 T antique multi-panel construction



10 R hazelnut multi-panel construction



SO 201 T white varnished multi-panel construction

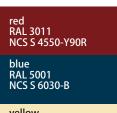


SO 206 T wenge embossed



SO 202 T oak multi-panel construction

### Recommended tints and veneers



#### yellow RAL 1015 NCS S 1010-Y20R



grey RAL 7035 NCS S 1502-G

white RAL 9010 NCS S 0502-Y







SO 204 T wenge



D SO 204 T



D 10 R hazelnut multi-panel construction



D 6 R oak multi-panel construction



SO 203 T embossed



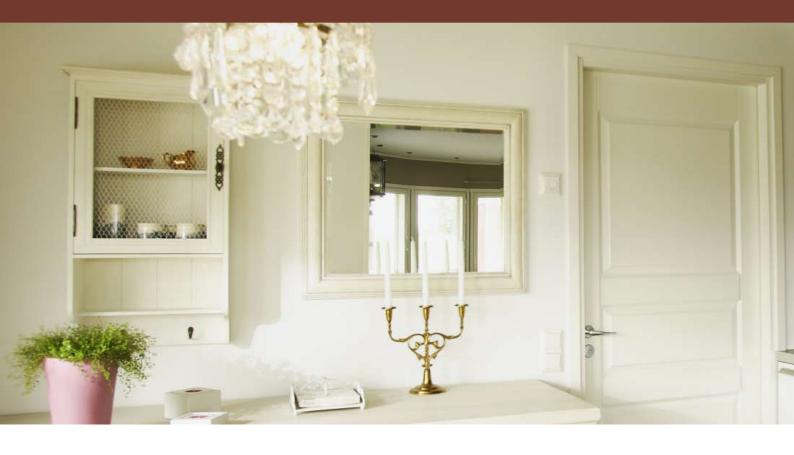
D 1P white varnished multi-panel construction



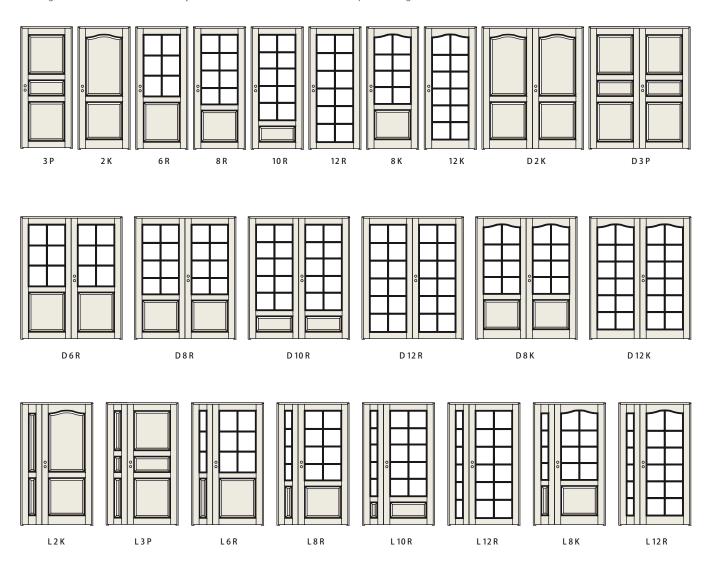
D SO 205 T hazelnut CNC-engraved glass



D SO 205 T hazelnut facet polished



Among the Skaala Tradia interior doors you will find a versatile selection of wood panels and grids.





#### TRADIA EXTERIOR DOORS

#### Construction

The door leaf has a symmetrical structure which is reinforced with sheets of aluminum. The door leaf is 62 mm thick. The reinforced panel structure guarantees that the doors are durable and functional. The door leaf resists warping for many years.

#### Surface

The weatherproof HDF panel is available as painted or veneered. The embossed doors are embossed on both sides. The grooved doors are grooved only on the outside, but can be ordered with grooves on the inside. Standard colour white (NCS S 0502-Y). Other colours can be ordered. The surface of glazed doors has been varnished. Door leafs made of hardwood are finished with tree oil.

#### Glass

The standard delivery for doors with light openings is 3K selective special glass. See pattern glasses on page 60.

#### Fittings

LC 100 lock case and adjustable striking plate as standard. 3 break-in preventing hinges which are adjustable sidewise and for different heights. For class Alpha exterior doors a brass lever handle and key cylinder cover plate are standard.

#### Frame

Class Alpha doors have a standard door frame made of quality wood or hardwood, class Beta doors come with a door frame of painted quality wood or glazed pine. Frame depth 115 mm, 131 mm and 175 mm.

#### Threshold

Hardwood threshold, aluminum wear lath.

#### Seal

Double silicone seal.

#### Thermal insulation

Most efficient thermal insulation. Insulation material polystyrene. U-value for massive doors  $\leq 0.80~W/m^2 K.$  U-value for doors with light openings  $0.80-1.3~W/m^2 K$  depending on the model.

#### Accessories

See the Collection Matrix on page 61 for standard and optional accessories for the Skaala Tradia exterior doors. Available add-ons include: surface fittings (lever handle and key cylinder), electromechanical locks, security locks, security glass, peephole, doorbell, tinted glass and letterbox.

#### Guarantee

Skaala gives a 10 year guarantee for that its exterior doors resist warping and a 2 year guarantee for the construction.

#### TRADIA INTERIOR DOORS

#### Construction

Strong frame construction made of a 6 mm thick MDF panel. Massive wood frame as standard. The door leaf is 40 mm thick.

#### Surface

Painted MDF panel, varnished and glazed doors have a veneer coating. Standard colour white (NCS S 0502-Y). Other colours can be ordered. The surface of glazed doors has been varnished. Grooves and laths on both sides of the door leaf.

#### Glass

See pattern glasses on page 60. The glass panes are also available as laminated or hardened security glass.

#### Fittings

2014 lock case and symmetrical hinges which are adjustable sidewise and for different heights as standard.

#### Frame

Class Alpha doors with veneer coating have a standard door frame made of quality wood; class Beta doors with veneer coating have a glazed pine frame. Painted doors have a standard door frame of quality wood. Frame depth 92 mm. Other depths can be ordered separately.

#### Threshold

A hardwood threshold can be ordered.

#### Sea

The frame has a single seal. The decibel doors have double seals.

#### Insulation

The insulation material used is polystyrene, which reinforces the construction. The decibel doors have a special construction.

#### Accessories

See the Collection Matrix on page 61 for standard and optional accessories for the Skaala Tradia interior doors.

#### Guarantee

Skaala gives a 2 year guarantee for the construction.



## Recommended lever handles







Abloy Jousi

As standard the doors are delivered without a lever handle.

## You will recognize the Skaala Tradia collection from the traditional laths of massive wood



The double seals, the polystyrene insulation and the energy efficient glazing guarantee that the strongly built Skaala Tradia exterior doors have an effective thermal insulation. The reinforced structure comes with a ten year guarantee for resisting warping. The doors are delivered complete with a durable threshold of hardwood.



The new panel construction has been reinforced by a thick frame of massive wood, which makes the Skaala Tradia interior doors robust, functional and unbreakable. The construction of the thick panel covering is made to last. The class Alpha interior doors are delivered with a door frame made of quality wood, which makes the painted surface most durable.



A decibel structure which efficiently insulates the sound in the home can be combined with several of Skaala's interior doors with panel construction, but only if the door has no light openings. A sound-proof door construction which requires separate air-conditioning in the room is an ideal solution when building a virtually soundless bedroom, study or home cinema.



The genuine multi-panel construction gives the door a traditional look and guarantees that the door will have a long operating life. The massive wood and the strong peg joints make the construction most durable. The painted surfaces in the wood panel are made from a solid and unbreakable furniture panel. On the previous spread on page 33 in the Door Book you will find examples of high-quality multi-panel doors with matching sidelights.







## Skaala Familia exterior doors

The Skaala Familia exterior doors are perfect for traditional architecture characterized by distinct and pure design. Elegant grooves and numerous colour options guarantee that the door you select matches the general style in your home. The extensive selection of glass panes and different types of grids ensure an individual outcome. All of the doors in the collection are soundproof.

The doors in the Skaala Familia collection are delivered with class Gamma qualities. From the Skaala Collection Matrix you can see which options and qualities the different classes have to offer. Please familiarize yourself with the Collection Matrix on page 61 in this Door Book.

# 3

UO 301 F grooved



grooved

UO 303 F grooved



grooved



grooved



grooved

#### Recommended tints



You can always select a door in any tint you like according to the RAL and NCS colour charts.





UO 301 F grooved



UO 302 F grooved



UO 303 F grooved



UO 304 F grooved



UO 305 F grooved



UO 307 F grooved



UO 303 F sidelight OKL 14 F grooved



UO 307 F sidelight OKL 24 F grooved





UO 308 F grooved CNC-engraved glass



UO 309 F grooved



UO 310 F grooved



UO 311 F embossed



OKL 1 F OKL 2 F OKL 11 F OKL 14 F OKL 24 F Fixed sidelights



UO 308 F CNC-engraved Chinchilla glass.



# Skaala Familia teracce doors

The cozy terrace doors naturally match the exterior doors and windows in the Skaala Familia collection. The sill of the light in the terrace door can be measured to be in line with the window-









**IO 58 K F** 

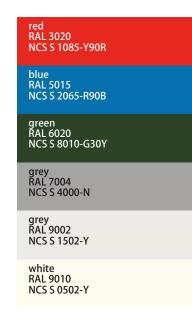




D IO 58 F



#### **Recommended tints**



You can always select a door in any tint you like according to the RAL and NCS colour charts.



## Skaala Familia interior doors

The strong and durable Skaala Familia interior doors with panel construction are a high-quality choice. The grooves add a discrete finishing touch to the doors and you can choose between several elegant double door and sidelight options. The extensive selection enables you to choose separate solutions for every room. The doors in the collection are also available with different glazings and grids. If you wish, we also deliver the Skaala Familia interior doors with a frame of quality wood.

- Available as soundproof decibel door
- Available as dividing fire door



#### **Recommended tints**



You can always select a door in any tint you like according to the RAL and NCS colour charts.









SO 302 F grooved



SO 303 F grooved



SO 304 F grooved



SO 305 F grooved



SO 306 F grooved



SO 307 F grooved



SO 308 F grooved





D SO 306 F grooved



D SO 304 F grooved



Grooved interior door



#### **FAMILIA EXTERIOR DOORS**

#### Construction

The door leaf has a symmetrical structure which is reinforced with sheets of aluminum. The door leaf is 62 mm thick. The reinforced panel structure guarantees that the doors are durable and functional. The door leaf resists warping for many years.

#### Surface

Weatherproof HDF panel. Grooved on the outside, the inside is plain. Standard colour white (NCS S 0502-Y). Other colours can be ordered.

#### Glass

The standard delivery for doors with light openings is 2K or 3K selective special glass. See pattern glasses on page 60.

#### **Fittings**

LC 100 lock case as standard. 3 break-in preventing hinges which are adjustable sidewise and for different heights.

#### Frame

Single rebate door frame. Frame depths 115 mm, 131 mm and 175 mm.

#### Threshold

Hardwood threshold, aluminum wear lath.

#### Sea

Silicone seal on the door leaf.

#### Thermal insulation

Most efficient thermal insulation. Insulation material polystyrene. U-value for massive doors  $\leq 0.80~W/m^2 K.$  U-value for doors with light openings  $0.80-1.4~W/m_3 K$  depending on the model.

#### Accessories

See the Collection Matrix on page 61 for standard and optional accessories for the Skaala Familia exterior doors. Available add-ons include: surface fittings (lever handle and key cylinder), electromechanical locks, security locks, security glass, peephole, doorbell, tinted glass and letterbox.

#### Guarantee

Skaala gives a 10 year guarantee for that its exterior doors resist warping and a 2 year guarantee for the construction.

#### **FAMILIA INTERIOR DOORS**

#### Construction

Strong frame construction made of a 6 mm thick MDF panel. Massive wood frame as standard. The door leaf is 40 mm thick.

#### Surfac

Painted MDF panel, standard colour white (NCS S 0502-Y). Special colours can be ordered. Grooves on both sides of the door leaf.

#### Glass

See pattern glasses on page 60. The glass panes are also available as laminated or hardened security glass.

#### **Fittings**

 $2014\,lock$  case and symmetrical hinges which are adjustable sidewise and for different heights as standard.

#### Frame

Painted door frame made from quality wood. Frame depth 92 mm. Other depths can be ordered separately.

#### Threshold

A hardwood threshold can be ordered.

#### Seal

The frame has a single seal.

#### Insulation

The insulation material used is polystyrene, which reinforces the construction. The decibel doors have a special construction.

#### Accessories

See the Collection Matrix on page 61 for standard and optional accessories for the Skaala Familia interior doors.

#### Guarantee

Skaala gives a 2 year guarantee for the construction.



# Recommended lever handles







As standard the doors are delivered without a lever handle.

# The panel construction of Skaala Familia doors is made to last



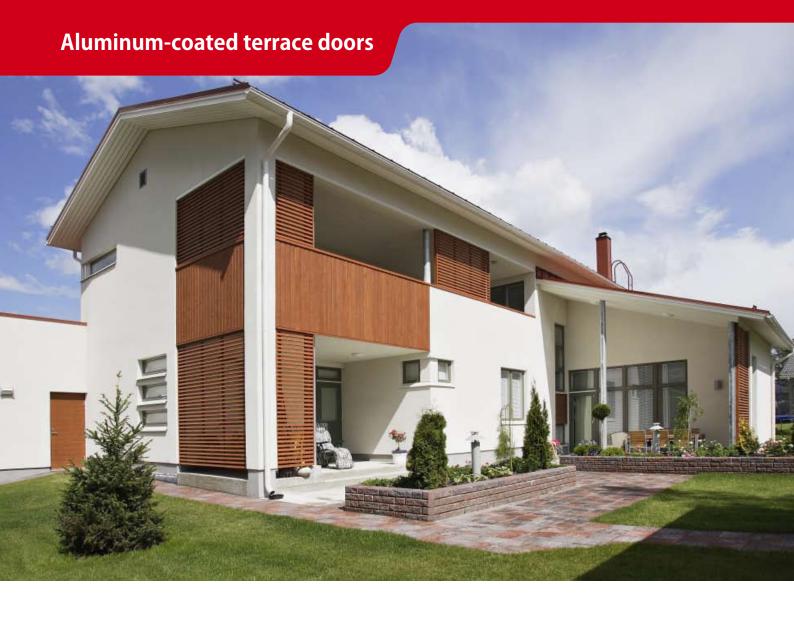




The seal, the polystyrene insulation and the energy efficient glazing guarantee that the strongly built Skaala Familia exterior doors have an effective thermal insulation. The reinforced structure comes with a ten year guarantee for resisting warping. The doors are delivered complete with a durable threshold of hardwood.

The new panel construction has been reinforced by a thick frame of massive wood, which makes the Skaala Familia interior doors robust, functional and unbreakable. The construction of the thick panel covering is made to last. If ordered separately, the Skaala Familia interior doors are available with a door frame made of quality wood, which makes the painted surface most durable.

A decibel structure which efficiently insulates the sound in the home can be combined with several of Skaala's interior doors with panel construction, but only if the door has no light openings. A sound-proof door construction which requires separate air-conditioning in the room is an ideal solution when building a virtually soundless bedroom, study or home cinema.



#### **IOSUAL**

Two-leaf aluminum-wood French door which opens inward/outward. The outer panels of the thermally insulated, massive part of the door is a HDF panel, the outmost surface is a painted aluminum sheet.

#### IOAI

Single-leaf aluminum-wood French door which opens outward. The inner surface of the thermally insulated, massive part of the door is a HDF panel, the outer surface is a painted aluminum sheet.

#### 1057A

Single-leaf aluminum-wood French door with HDF coating, opens outward.

#### Frame

A painted frame of quality wood or a glazed pine frame. Frame depth 131 mm, 175 mm and 210 mm.

#### **Surface finishing**

The wooden parts are painted with coating colour, standard tint white (NCS S 0502-Y). Optionally the wooden parts can be glazed and varnished. The aluminum parts have been powder painted, standard tint white RAL-9010. Other tints for wooden and aluminum parts can be ordered.

#### Glass

IOSUAL In the inner door 2K selective+argon special glass,

in the outer door clear float.

IOAL and IO57A 3K selective+argon special glass

#### Performance

IOSUAL Thermal insulation  $U = 0.80-1.1 \text{ W/m}^2\text{K}$ 

Soundproofing (Rw+Ctr) 33-40 dB

IOAL Thermal insulation U= 0,80–1,3 W/m<sup>2</sup>K

Soundproofing (Rw+Ctr) 30–35 dB

IO57A Thermal insulation U= 1,1–1,3 W/m²K Soundproofing (Rw+Ctr) 30–37 dB

Seals

IOSUAL Double silicone seals on the inside,

single silicone seal on the outside.

IOAL and IO57A Double silicone seals.

Fittings

1057A

IOSUAL Inner and outer doors have espagnolette locking.

Break-in preventing hinges which are adjustable sidewise and for different heights on both door leaves.

IOAL Lockable espagnolette. Break-in preventing hinges

which are adjustable sidewise and for different heights.

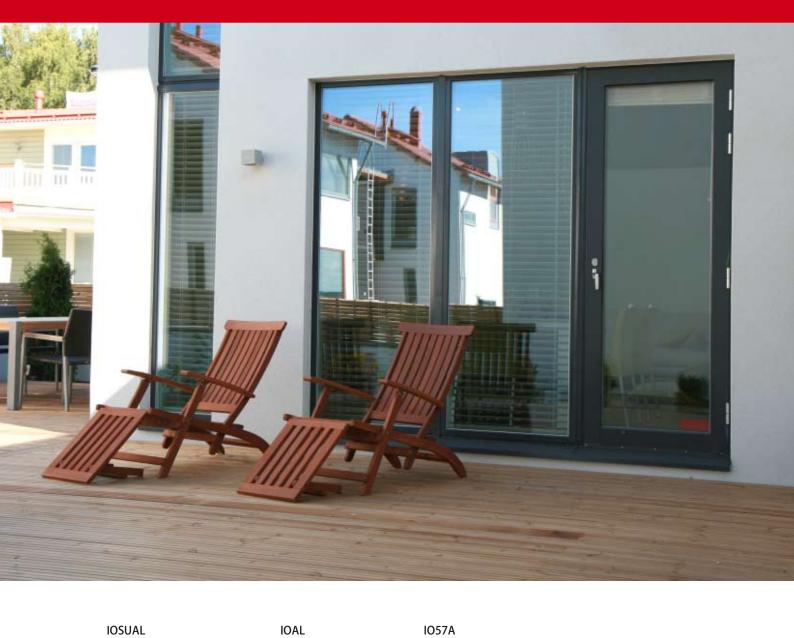
4190 lock case or lockable espagnolette. Break-in

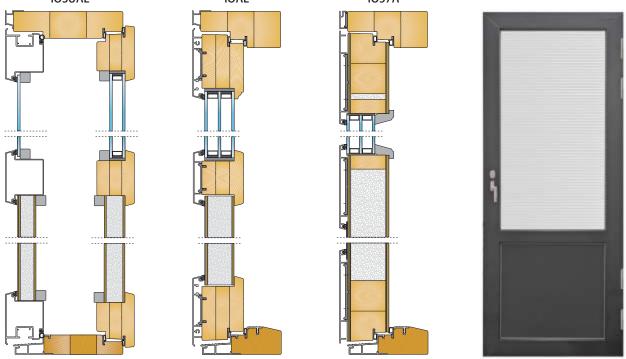
preventing hinges which are adjustable sidewise and

for different heights.

#### Extra equipment which can be ordered separately

- Surface fittings
- Removable PIR30A grids in the outmost surface of the outer glass (except for IO57A)
- Blinds
- Doorstop mechanism
- Through-lockable espagnolette
- Special glazing







# Skaala patio doors

A patio door provides you with a free passage to the garden, balcony or terrace. The patio door increases the usage of the indoor and outdoor space and creates a functional whole. The user-friendly and comfortable patio door is easy to open and close and makes the room more spacious. In addition, more natural light is allowed to flow in from outside. A patio door brings along new and interesting possibilities for the decoration of your home or holiday house.

When you open the door the sliding-door element shifts outward and can easily be slid in front of the adjacent element. The lever handle has an integrated brake to enable a stepless opening of the door, for example the door can be kept in a light airing position.

- Frame depth 178 mm
- Min-Max width 1590-5000 mm
- Min-Max height 1390-2790 mm





Model A

1 sliding frame (left /right)



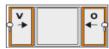
Model G

1 sliding frame (left /right)



Model C

2 sliding frames (left /right) without fixed middle rail



Model K

2 sliding frames (left /right)





### Doors for humid rooms

The Skaala doors for humid rooms have been especially designed for spaces where you do not have to mind the splashes. Even in a well ventilated bathroom the moisture is concentrated on the surface of the door and if the door is not moisture-resistant it can be ruined before its time.

A moisture-resistant door is a sensible choice for bathrooms and lavatories. The surface of the door panel has a vague wood vein pattern. There are two different door models: plain and three-panel doors. We do not recommend that you use other types of doors in humid rooms than those especially designed for this purpose.



Plain door for humid room

Three-panel door for humid room

Glass door for humid room

# Bright and spacious saunas

The Skaala glass doors create more space in the sauna. All sauna doors have tight seals, which prevent the heat from escaping and ensure that the door closes softly. The glass doors that are installed in other rooms than the sauna have lever handles and interior door fittings.



The surface of the doors for humid rooms has a vague pattern of wood veins.



IOAL\_K



Smoky grey with horizontal handle



Satin with door knob



Bronze with vertical handle

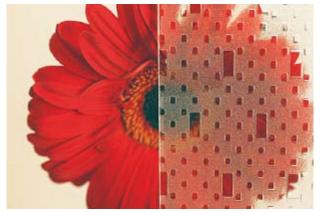


Striped satin with door knob

# **Pattern glass**



Etched glass. Suits all collections.



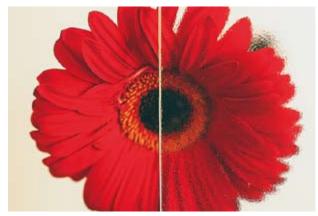
Quatrix. Suits the Skaala Skandia collection.



**Cotswold.** Suits the Skaala Tradia and Skaala Familia collections.



Machine antique. Grey. Suits the Skaala Tradia and Skaala Familia collections.



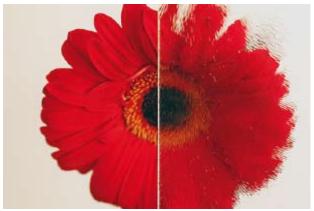
Satinbel. Suits all collections.



Delta clear. Suits the Skaala Tradia collection.



Kathedral clear. Suits the Skaala Tradia and Skaala Familia collections.



Chinchilla. Suits the Skaala Tradia and Skaala Familia collections.

# The Skaala Collection Matrix

	Windows	Skandia	Tradia	Familia	Exterior and terrace doors	Skandia	Tradia	Familia	Interior doors	Skandia	Tradia	Familia
Alpha	Energy class A	•	•		Efficient soundproofing	•	•		Efficient soundproofing	•	•	
	Efficient soundproofing	•	•		Double seals	•	•		Single seal	•	•	
	Thermally insulated frame	•	•		Double rebate	•	•		Double seals (dB doors)	•	•	
	Sun screening	•	•		Quality wood frame (painted doors)	•	•		Quality wood frame (painted doors)	•	•	
	Satin-chrome lever handles/ white	•	0		Hardwood frame (veneered doors)	•	•		Hardwood frame (veneered doors)	•	•	
	Brass lever handles/white	0	•		Cover plate	•	•		Satin-chrome lever handle	0	0	
	Self-cleaning Active	0	0		Satin-chrome lever handle	0	0		Brass lever handle	0	0	
					Brass lever handle	0	0					
Beta	Energy class B	•	•	0	Efficient soundproofing	•	•		Single seal	•	•	
	Efficient soundproofing	•	•		Double seals	•	•		Quality wood frame	•	•	
	Thermally insulated frame	•	•		Double rebate	•	•		Matt finish steel lever handle	0	0	
	Sun screening	•	0		Pine frame	•	•		Satin-chrome lever handle	0	0	
	Satin-chrome lever handles/ white	0	•		Satin-chrome lever handle	0	0		Efficient sound proofing	0	0	
	Brass lever handles/white	0	0		Brass lever handle	0	0					
	Self-cleaning Active	0	0									
Gamma	Energy class C			•	Efficient soundproofing			•	Plain or moulded door			•
	Efficient soundproofing			•	Single seal			•	Single seal			0
	Standard frame	•		•	Single rebate frame, single seal				Pine frame			•
	Chrome lever handles/ white			•	(exterior doors)			•	Quality wood frame			0
	Sun screening			0	Double rebate (terrace doors)			•	Chrome lever handle			0
	Self-cleaning Active			0	Double seals (terrace doors)			•	Efficient sound proofing			0
					Chrome lever handle			0				

 $<sup>\</sup>bullet \ \ standard$ 

o optional, extra equipment or quality

<sup>-</sup> cannot be combined with the product or model in question



# Energy efficient collections

Skaala is a renowned pioneer regarding energy efficient door and window solutions. We have brought the market most energy efficient door and window collections, which make it possible to achieve significant savings in the energy consumption in the home.

The Alpha window in Skaala's Nordic collection is the most energy efficient window on the market and takes energy savings to an entirely new level. The energy consumption of the Alpha window is less than half of the consumption of windows representing the current standard. In objects of renovation the difference in energy consumption is even greater, when the old windows are replaced by new Alpha windows.

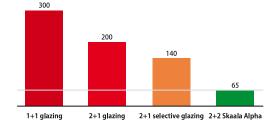
Skaala's door collection is also most energy efficient. Although there is yet no classification system for the energy efficiency of doors corresponding to that of windows, the energy aspect has been one of the areas in focus in our design. Indeed the Skaala exterior and balcony doors have excellent U-values according to their different classes.

The Skaala door and window collections guarantee that builders and redecorators now for the very first time are entitled to a complete, energy efficient solution. The Skaala products reduce the amount of energy needed for heating and ventilation and lift the comfort in the home to a new level.

In addition to being energy efficient, the extensive Skaala collection implies that builders and redecorators now also for the first time are able to choose a complete solution consisting of both doors and windows which matches the architectural style and interior decoration of their home.

It could not possibly become any easier to select a complete, energy efficient solution.

#### Energy consumpition kWh/m<sup>2</sup>/a



#### Outstanding energy efficiency

By comparing the energy consumption of the Skaala Alpha window with older window constructions, or even with the models currently used in construction, you will see that Skaala Alpha is outstanding regarding energy efficiency.

Apart from the U-value a new indicator, the E-value, has been adopted. The E-value tells you, directly and without embroidering, how much energy the window consumes. The E-value makes it possible to compare the window models of different manufacturers, making it easy to choose as the cost for the amount of energy the window consumes can be calculated.



# The climate agreements affect us all

The discussion brought on by the climate change has led to certain decisions, which will affect us all. As Europeans, we are obliged to achieve strict goals for decreasing the emissions of greenhouse gases and this will also show in the building regulations. In reality this means that the buildings will have to become increasingly energy efficient.

Windows and doors comprise up to a third of the total energy consumption of a building. In cold climates the heat strives to escape from the house and to prevent this from happening we must use different kinds of heating systems. Again, in hot climates especially the windows create a significant amount of extra heat inside the building, giving rise to the need for automatic air conditioning. What these two phenomena have in common is that they both consume energy. With Skaala's highly energy efficient doors and windows, you are able to decrease the need for heating energy considerably. The effective sun screening of the windows also saves the energy needed for cooling.

To invest in an energy efficient home is a reasonable solution. It will save you money and increases the comfort in your home remarkably. It is also an important ecological deed.

#### The energy efficiency of windows

THE NEW REC	GULATIONS*	SKAALA 2008							
2010	2012	Skaala Alpha	Skaala Beta						
U=1,00	U=0,80	U=0,75 - 0,80	U=0,90 - 1,00						

U-value = heat transfer coefficient (W/m²K)

\* The proposition from the Ministry of the Environment





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