

Lacuna[®]
Made in Denmark



**DESIGN
QUALITY
INSULATION**

**POTENTIALLY
- THE WORLD'S BEST
FOLDING DOOR**



BE INDOORS AND OUTDOORS AT THE SAME TIME



WELCOME TO A WORLD OF POSSIBILITIES TO OPEN UP
YOUR HOUSE TO NATURE WITH LACUNA FOLDING DOORS.

We make tailor-made folding doors, folding windows and French doors to fulfill your wishes. Our mission is to be the best at doing what we do. That is why we do not make standard windows and window-bays. On the contrary we are able to adjust our products as to colours, etc., so they match the style of existing windows and doors.

This catalogue intends to bring you inspiration presenting many different homes where our folding doors create fondness and well-being - spanning from contemporary to classical houses, from small to large apartments, from beach cabins to large country houses, from covered verandas to conservatories and winter gardens. Simply let your imagination loose - a Lacuna folding door opens up to something big...



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A FOLDING DOOR FROM LACUNA IS NOT SO INEXPENSIVE THAT IT ENDS UP BEING EXPENSIVE



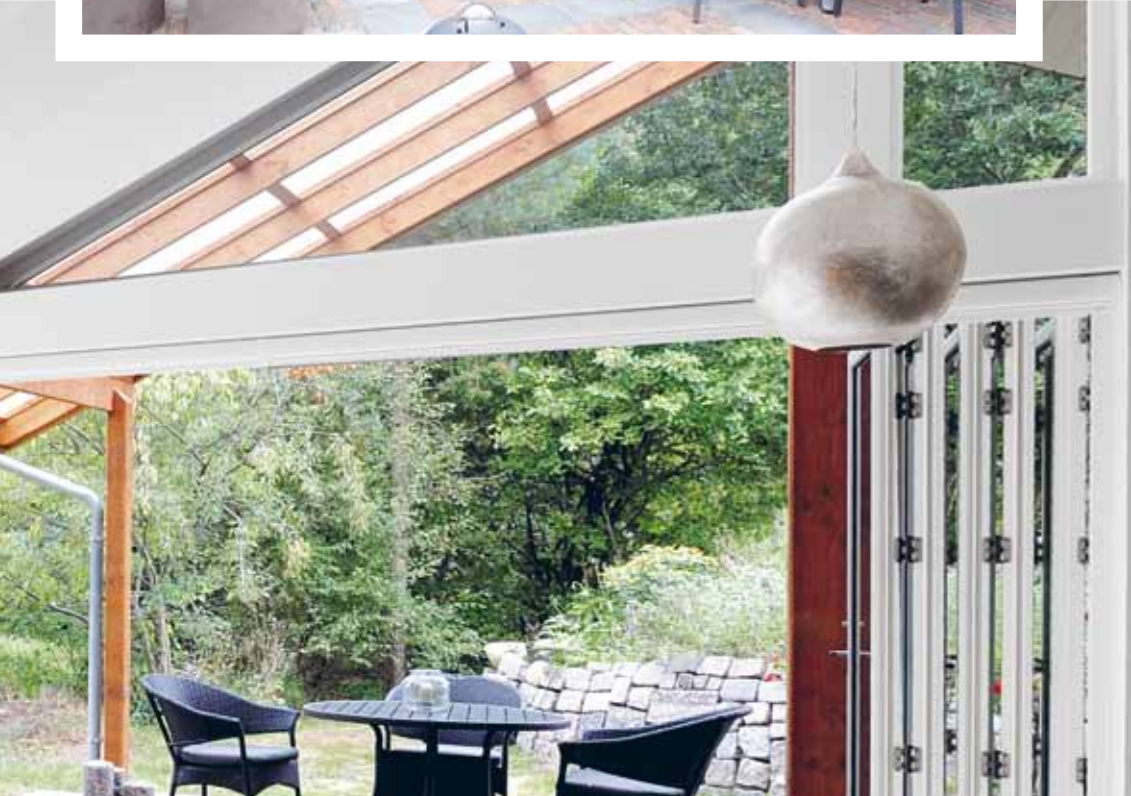
REST ASSURED THAT A LACUNA FOLDING DOOR GIVES YOU THE VERY BEST VALUE FOR MONEY BECAUSE WE STAY FOCUSED AND CONCERNED WHEN WE MAKE YOU AN OFFER.

Whichever you choose - a small or large, a standard or extreme insulation folding door - you will get a folding door fitting neat and tight without need for adjusting.

We do not compromise on materials and have a demanding level below which we never venture. The use of inexpensive materials often end up procuring you the most expensive solution in the long run.

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OPEN UP YOUR HOME EXPERIENCE NATURE OUTDOORS AND INDOORS

EXPERIENCE THE WORLD, OPEN UP TO NATURE, YOUR LIVING SPACE OR KITCHEN.

A functional, elegant and energy-saving design makes Lacuna folding doors generously admit natural light. Our patented system is built insisting on a high degree of insulation achieved by double insulation seals in the frame and triple insulation seals in doorjamb. Lacuna folding doors are built to function from -60°C to $+50^{\circ}\text{C}$. For this reason people enjoy our products from far north of the polar circle to far south in Africa. Good insulation works both ways!



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A ROOM WITH A VIEW NATURALLY DESERVES A FOLDING DOOR



EVEN A CABIN OR A GUEST HOUSE WITH A SAUNA ON THE LAKESHORE MERITS A PAIR OF LACUNA FOLDING DOOR

In all our painted products we use heat-treated beech that does not expand in humidity. Heat-treated beech is just as resistant as teak. Heat-treated beech has as a higher insulation value than pine, fir and other non-modified woods. Since heat-treated beech does not absorb humidity, the paint will not crack and normally a Lacuna folding door will not need repainting for 15-50 years depending on its exposure to the weather.

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CITY-LIFE AND THE ATMOSPHERE OF THE CITY IN YOUR APARTMENT

IN YOUR APARTMENT YOU REALLY DESERVE TO BE ABLE TO OPEN UP TO NATURE BECAUSE YOU CANNOT SIMPLY STEP OUT ONTO YOUR LAWN.

An increasing number of apartments nowadays have a balcony added on - if it is not existing already. Often a minute balcony is replaced by a larger one. And, in this case, what could be more pleasant than replacing the windows with a Lacuna French door opening up onto the balcony. Not only will you get a new fresh-air quality of life - but in fair weather you are no longer shut in any more. When sitting in winter storms, on sixth floor, you recognize the importance of being screened by a Lacuna folding door that has been proved air and watertight - by the Danish Technological Institute - at wind-speeds several times higher than those that will close the bridges connecting major Danish islands to traffic.





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IF YOU ARE ON TOP OPEN UP FOR THE VIEW



WETHER YOU ARE ON THE TOP OF A HOUSE IN A SMALLER TOWN OR YOUR APARTMENT IS IN THE CAPITAL WHAT YOU WILL EXPERIENCE IS FANTASTIC.

Views have always fascinated man. Something happens inside ourselves - we turn contemplative - and feel in harmony. Wether in a cabin in the hills, in a penthouse apartment or on top of a one-family house we are attracted by a far-reaching view. A Lacuna folding door enhances this experience. Even with wind, drizzle or dew you can still keep open your folding door and profit from the impressive view without being chilled - sitting outside and inside at the same time.





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FULFILLING OUR CUSTOMER'S EXPECTATIONS IS WHAT GENERATES OUR SUCCESS

WE ARE ALWAYS AVAILABLE FOR COUNSELING AND AN ATTRACTIVE OFFER CONCERNING A LACUNA PRODUCT - SIMPLY CALL US OR WRITE US.

We only produce to order and for that reason can offer you an interesting price for precisely what you want. Expectations and desires of our customers concerning the functions and size of folding doors are numerous and varied. Therefore we are always at your service for unbiased counseling. A satisfied customer is Lacuna's best advocate and business card. So we will do everything to fulfill our customer's expectations. We prefer to refuse an impossible demand rather than have a dissatisfied customer not being our advocate. At our offices a competent staff is ready to help you.





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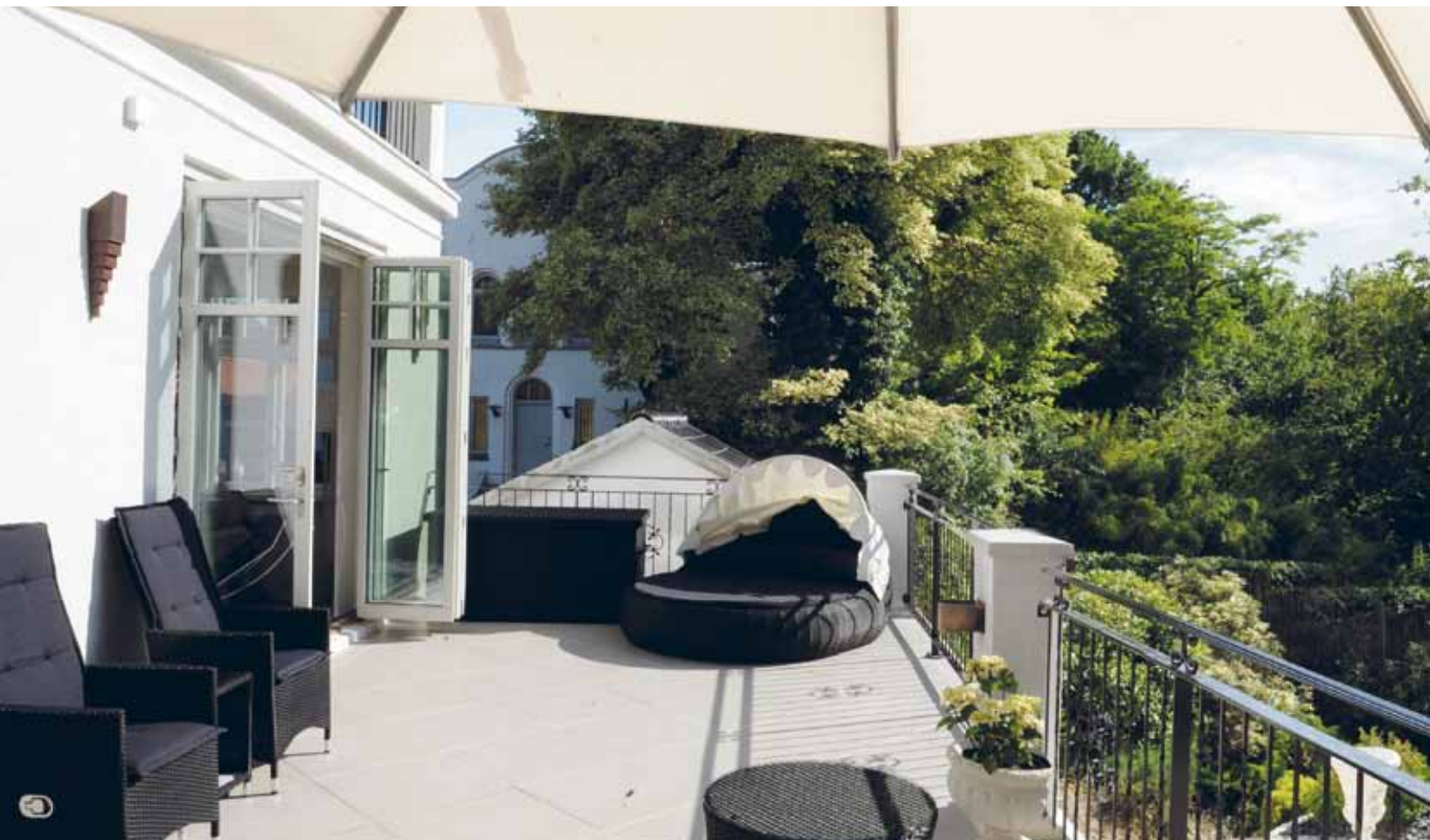
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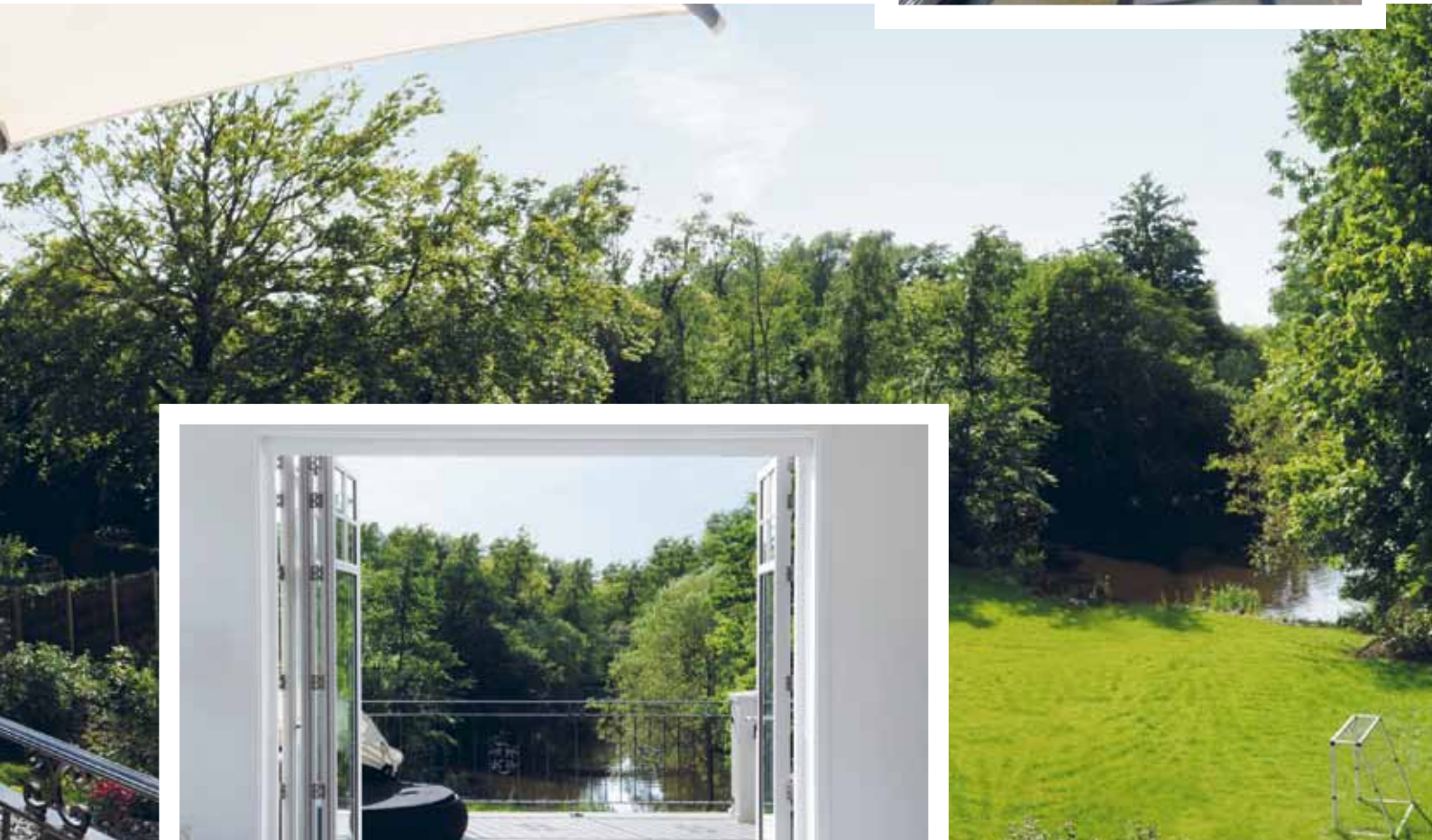
POTENTIALLY
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AN ENERGY-SAVING PRODUCT WITH DANISH DESIGN AND GERMAN QUALITY

QUALITY AND ENVIRONMENT-FRIENDLY PRODUCTS GO HAND IN HAND AT LACUNA.

Our products are made to last 50 years or more. We use exclusively long-lasting FSC-certified wood in our production. We were the first Danish window-maker to be FSC-certified in Denmark. In the long run the lowest price is for the longest lasting product. We consider Danish design, German quality and minimal energy consumption as quite natural because Lacuna products made today will also be energy-friendly in 10 or 20 years compared to other window products. Whether you choose heat-treated painted beech or oiled mahogany - Lacuna only uses sustainable wood.





EVERY SUMMER HOUSE HAS A RIGHT TO A LACUNA FOLDING DOOR

FROM CHARMING BEACH HOUSES ON THE SHORE TO IMPOSING SUMMER RESIDENCES THE EFFECT OF A LACUNA FOLDING DOOR IS QUITE IMPRESSIVE.

When summer really arrives in Denmark many people having acquired a Lacuna folding door regret not having done so earlier because now house and nature blend at a higher level. Children as well as adults profit from the present moment - the clock stands still.

Unfortunately summer will not last forever, so it is nice to know that a Lacuna folding door seals and insulates well. It is also noteworthy that in a Lacuna folding door installations one of the doors can be opened as a normal door. More than 90% of the doors we produce have through door-handles with a inside locking mechanism on this door.



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CONTEMPORARY OR THATCHED ROOF LACUNA WILL CREATE A DESIGN THAT SUITS YOU

THE HOUSE ON THIS PAGE IS ALL CONTEMPORARY WITH A CUBISTIC DESIGN THAT IS HIGHLY INSPIRING FOR THOSE WHO WISH THIS STYLE IN THEIR HOME.

A great number of Lacuna's customers choose to have a folding door installed instead of an oldish sliding/lifting door or a window area. Others chose a folding door instead of piercing an outer wall to let more light and air into the house. An important proportion of the folding doors we make must fit into an existing design with or without mullions/horizontal bars. We can present you but a fraction of the many folding door installations we have made. Please refer to our homepage Lacuna.dk where you will find a large picture-gallery that is updated continuously with our photos or photos received from satisfied customers.

In the following pages we will present a patchwork selection of some of the numerous available versions.





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FOLDING WINDOWS ARE - THE RIGHT CHOICE IN THE RIGHT PLACE

A FOLDING WINDOW FROM LACUNA IS THE RIGHT CHOICE IN CERTAIN PLACES.
YOUR PERSONAL WISHES COMMAND WHAT WE MAKE.

A folding window is in principle a folding door not reaching the floor. The folding window can be installed in many places and functions as well as an insulating climate screen in apartment buildings, that have a balcony receding into the facade. This instantly makes the balcony an interior space when the folding window is not open.





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POTENTIALLY
THE WORLD'S BEST
FOLDING WINDOWS

FUNCTIONALITY, BURGLARPROOFING, DURATION AND FINISH, ENERGY-FRIENDLINESS



ABOUT LACUNA IN GENERAL

A lot of technical know-how, patents and safety demands contribute to Lacuna's constant aim at producing the very best for the best possible price. In the following pages we present a few essential general themes. If you want information not found here please refer to our home page Lacuna.dk or call us at +45 8689 8689 or write us at info@lacuna.dk. Do not forget your phone number in your mail so we can come back to you with eventual questions.

PRICES

Since the number of combinations and versions are infinite it is impossible to set up a standard price list on Lacuna products. The price is calculated by a software programme into which we type width, height, frame type, colour inside and outside, glass



type, handle type and much more. Call us or write us - send a photo if you want to be counseled about the construction. We are ready to provide an offer without committal for you and according to your wishes - if within what is possible.

VERSIONS

A Lacuna folding door can be designed to match exactly the style you wish. It can have a width of up to 6 metres and a height of close to 3 metres. It can come with palatial mullions, ordinary mullions and a number of different locks on our door handles, various colours outside and inside, etc. Common for all Lacuna products is that hinges, handles and fittings are all in acid-resistant brushed stainless steel - to ensure a timeless and strong design. All handles have an 18 mm diameter making sure that the design of the folding door on its inside matches even the very top of furniture design.

All our products are made in our production unit in Fionia (Fyn).

Lacuna folding doors are certified as the World's absolutely best sealed and insulating folding doors.

Lacuna products are made to last at least 50 years. A folding door is a much more complex product than a door or a sliding door. The added expense by using only the best materials - probably 25% of the total price - results in a problem-free product, that is easily installed, that lasts longer and that needs no readjusting later on.

Painted products use FSC-certified, laminated, heat-treated beech from Germany. Heat-treated beech has a duration equal to that of teak, that is class 1, being the type wood that will last nearly for ever and that will not rot. Furthermore it has an insulation value surpassing by far that of non heat-treated wood. And, last but not least, it will not absorb water in humid weather which equally procures an excellent dimensional stability.

For these reasons we do not produce in wood-aluminum which can be a good solution for one or two door frames in a jamb-lintel structure. Problems with different types of wood arise when there are three or more frames in a jamb-lintel structure. Lacuna doors have been installed in extremely varied climates. I Bergen in Norway or in the Faeroe Islands it may rain 250 days a year and in other places there is hardly any rain. The dimensional stability of the wood is indispensable for well-functioning folding doors.

Lacuna surface treatment (paint) on heat-treated beech procures a finish different from the one you get with pine or other sorts of wood. We start by having a robot sand the parts so they get a mirror-like surface. Then the base paint is applied, intermediate



sanding is done and once more base paint is applied and finally we apply 2-3 fine coats of paint. This results in a silky surface than can be mistaken for powder painted aluminum or the new paint-job of a car. The smooth surface is also on the inside because Lacuna wants it to have the appearance of a piece of furniture. (You can experience this yourself in one of our showrooms).

The many coats of paint add up to a total of 160my (0.16 mm) where the window industry standard is only 80 my. Lacuna products can for this reason be combined with wood-aluminum and other products with precisely the desired type of glass. The paint on heat-treated beech lasts longer without maintenance than with wood-aluminum products. This is because the heat-treated beech adopts the characteristics of a composite or fibre-glass and do not extend nor retract when exposed to moisture or temperature.

In normal conditions Lacuna products need not be repainted for 15-50 years depending on their exposure.

Insulation and sealing are indispensable for a good economy in folding doors. Therefore it is paramount for Lacuna to create a product, that remains completely sealed even in hurricanes surpassing by far what we see in Denmark. When the bridges connecting major Danish islands has already been closed to traffic and Hurricane Katrina has toppled New Orleans a Lacuna folding door stays sealed, see text from Danish Technological Institute at Lacuna's home-page www.lacuna.dk



When considering insulation capacity Lacuna products are also top of the range. Insulation value is measured in U_w , expressing the insulation. A lower figure means better insulation. A normal double-glass low-energy window has a U_w value of approx. 1.2-1.5. A Lacuna product with comparable glass has a U_w value of 0.7. The figures speak for themselves because this means that the home only needs 40% the energy needed compared to one with a standard folding window/door.

In this way Lacuna is the most economic long term solution. There is a reason why Lacuna products have been nominated, in 2010 and 2012, for the Energy Prize by Danish Construction. And we are continuing this development - we honour ourselves by being at the forefront of our time regarding functionality, finish, burglarproofing, duration and energy-friendliness. When product development is concerned we think in German and concerning design we think in Danish - and we are proud of selling in many countries.

Lacuna folding doors are suspended in the lintel, they are provided with a lock on all doors and have no floor rail to retain dirt. The glass is glued from the inside so burglarproofing is top range. Just like





folding doors folding windows can be made to fold outwards or inwards - 90 % of our doors fold outwards except for the many restaurants and cafés enjoying their folding doors or windows.

On top of its energy-friendliness, resistance and impeccable finish Lacuna uses its patented lintel rail system where the rail that slides the folding doors sideways is integrated into the lintel. This system is more precise than other ones, saves you money on mounting boards and renders a better finish. The system is available in several versions, depending on the proportion of the weight of the folding doors supported by the lintel.

The system makes the installation easier. It can often be installed in half the time needed for traditional folding door systems and makes it possible to save on installation costs. Furthermore a Lacuna lintel when installed in an existing house saves you the expenses for iron or laminated wooden beams to discharge the weight of the folding doors. The actual width and height of a folding door are important for the choice of the optimal solution. We are at your service with counseling in general and making sure you get the best and least expensive solution.



See more at www.lacuna.dk

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