



LHM



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LHM - is renowned for its passion for delivering the highest quality houses, stairs and furniture projects.

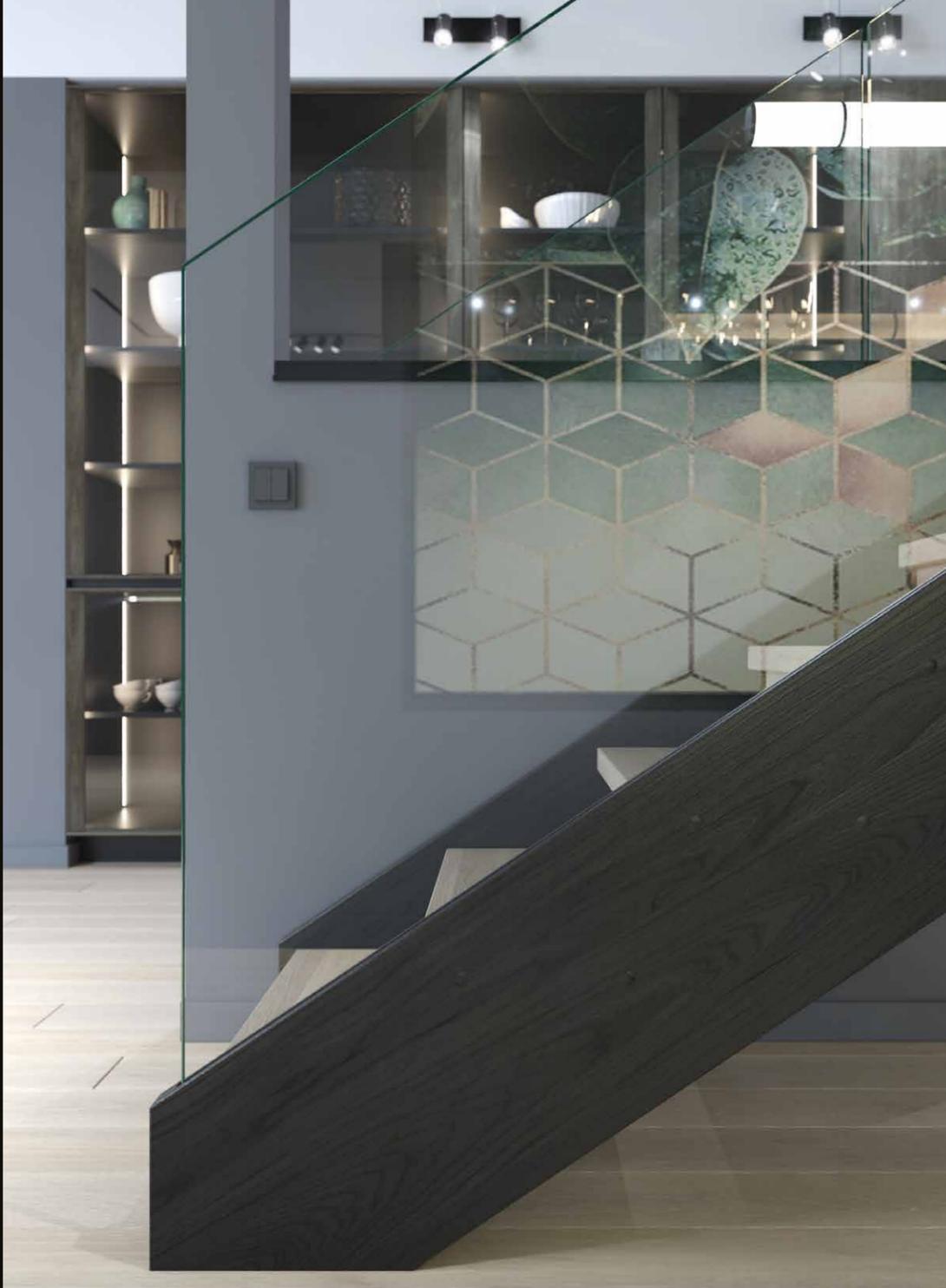
This high standard is the result of a long-standing, interdisciplinary collaboration, focusing on quality at all levels.

To ensure we can offer consistently high standard products and services to our customers along with the most competitive delivery time in the market, we have invested extensively in equipping our own factory with modern machinery and modern software, run by highly experienced engineers and skilled assembling teams.

LHM STEP is a great choice for those who want a staircase that is tailor-made to fit the home, along with the convenience of having everything manufactured and delivered on time. Your vision of what you need, combined with our expertise, ensures that we can deliver a staircase that perfectly fits your requirements. Our goal is to make you feel safe before, during and after a trade with us.

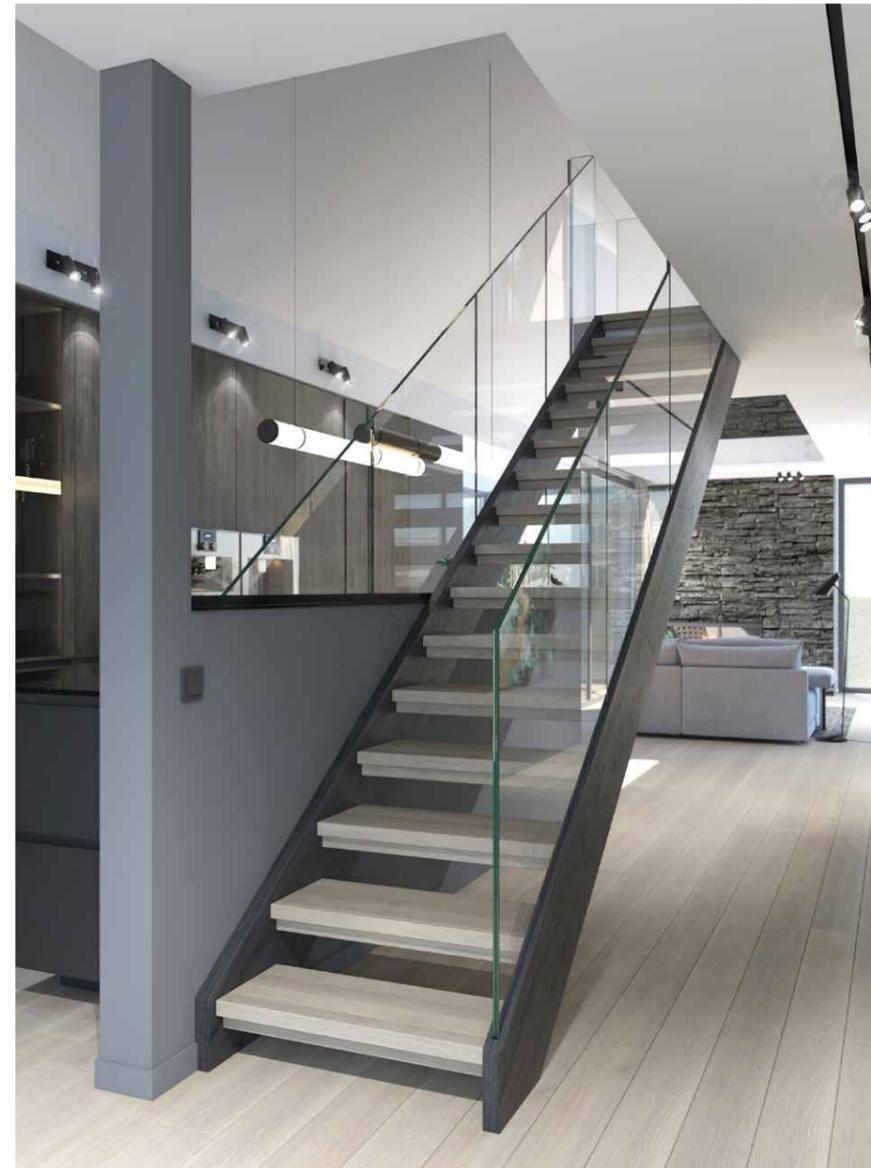
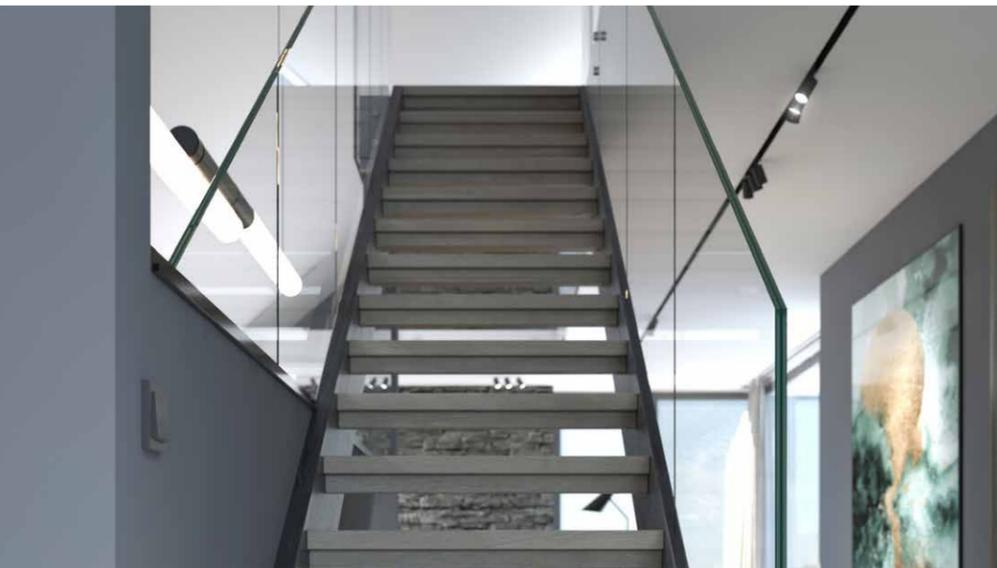
We hope that one day you will be one of our many satisfied customers.





LHM

STAIRS MODELS



### MODEL X01

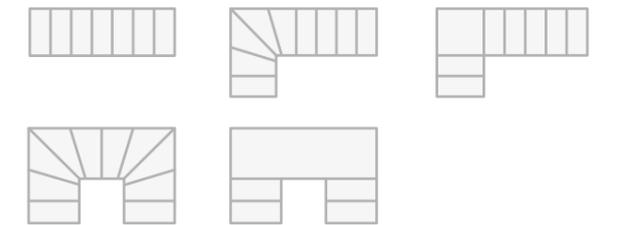
I shape staircase with closed (housed) wooden strings from both sides. Open steps of 9mm height wooden plates with safety riser to maintain safety requirements. High quality and stable glass fence milled into string with handrail on top will provide an open and modern sense of space in your home.

### OPTIONS

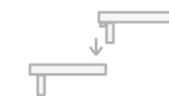
#### STEPS



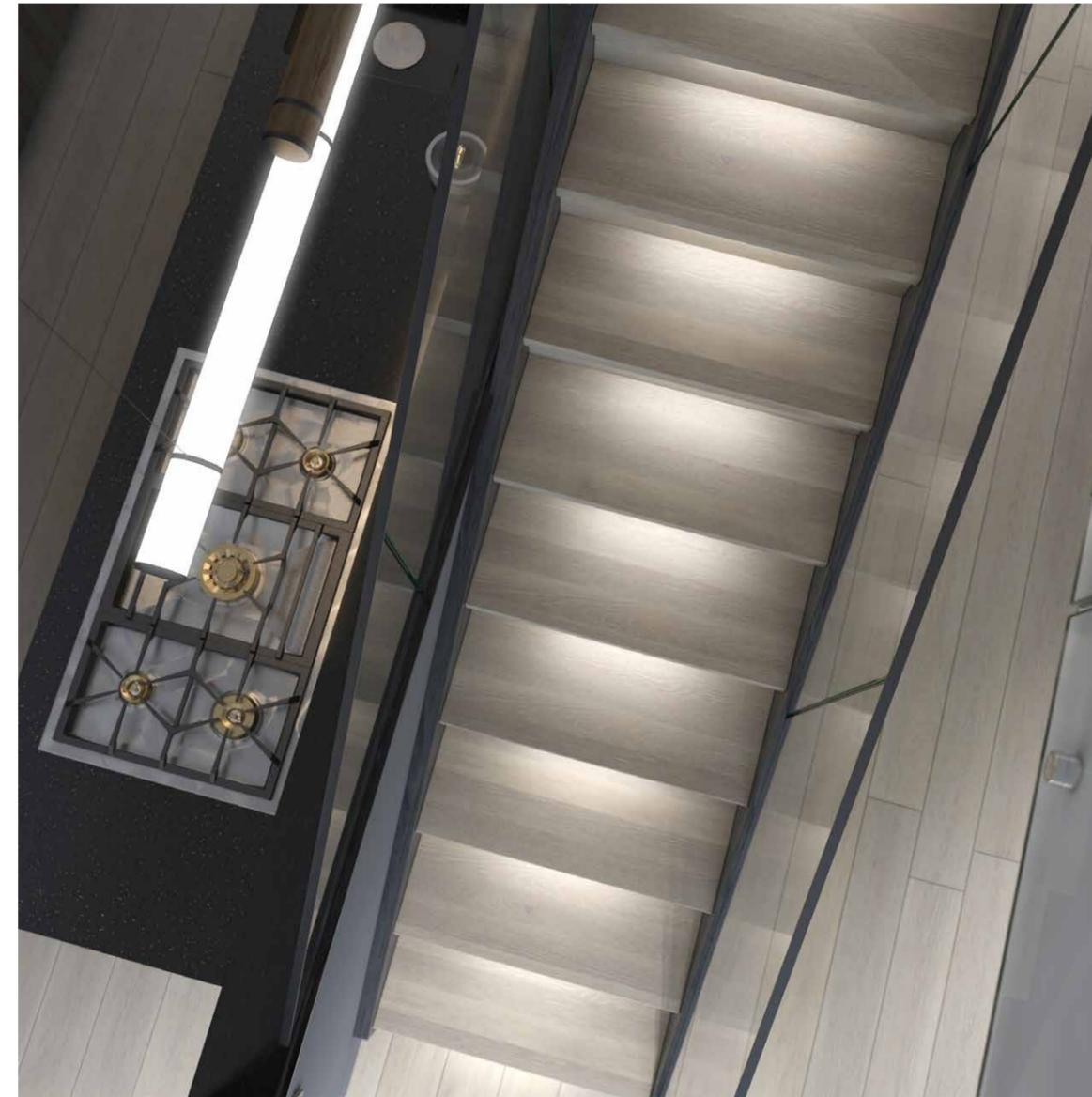
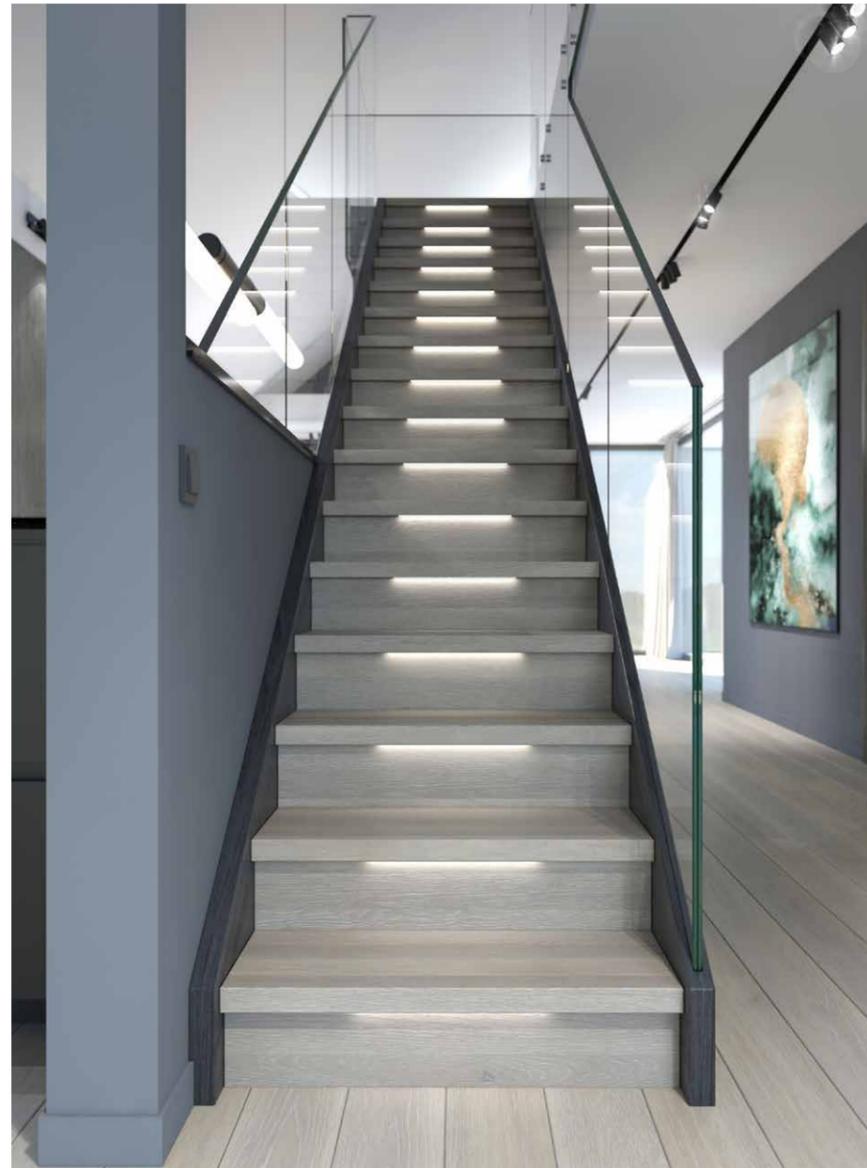
#### SHAPE



#### LED LIGHTS



Option descriptions provided in page 68.



### MODEL X02

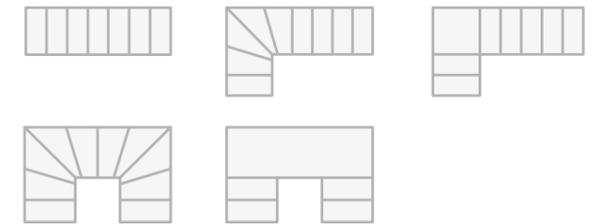
I shape staircase with closed (housed) wooden strings from both sides and fully closed steps. High quality and stable glass fence milled into string with metal handrail on top. It provides an open and modern sense of space in your home. Illuminated by LED lights in steps.

### OPTIONS

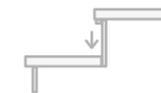
#### STEPS



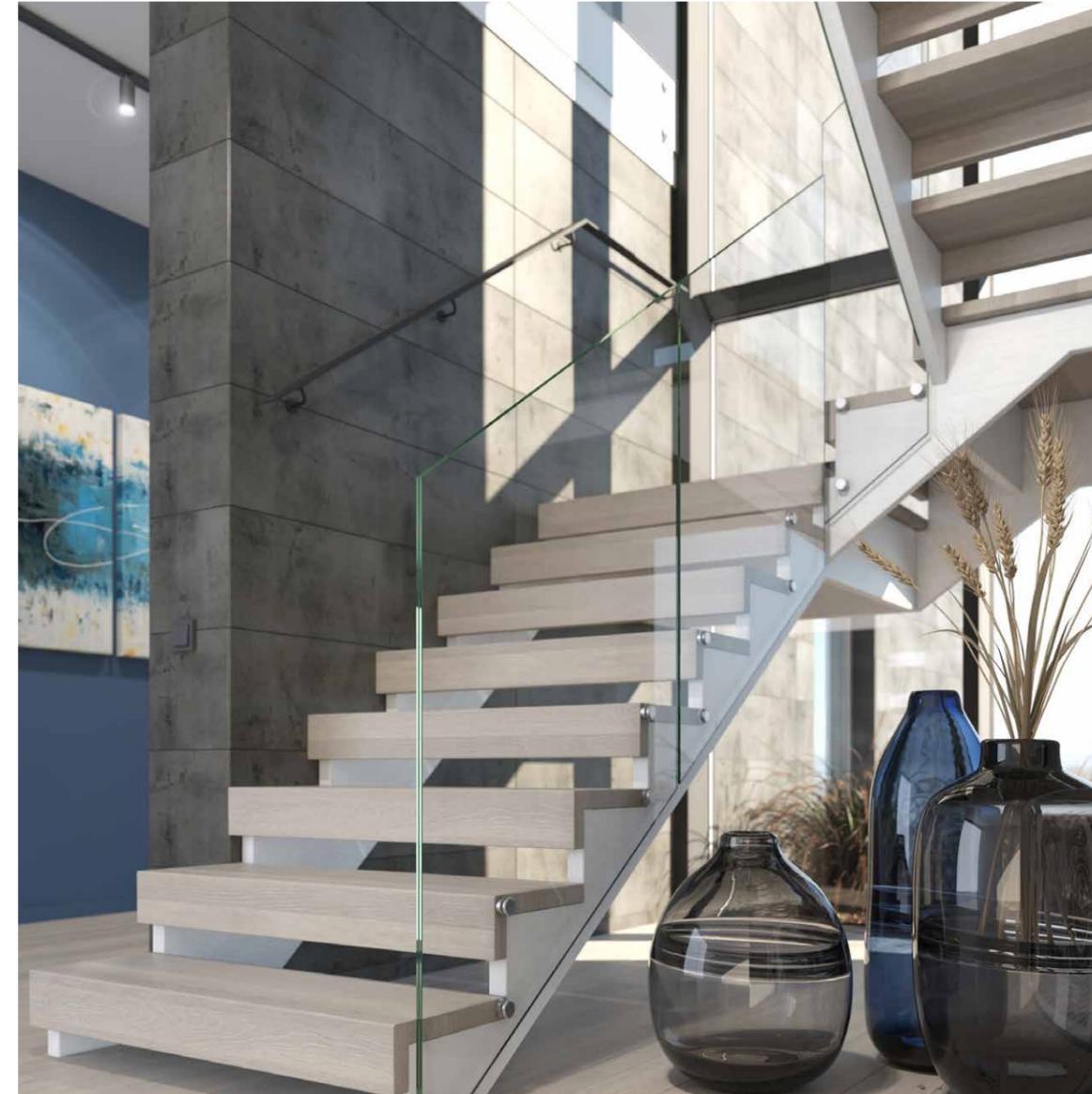
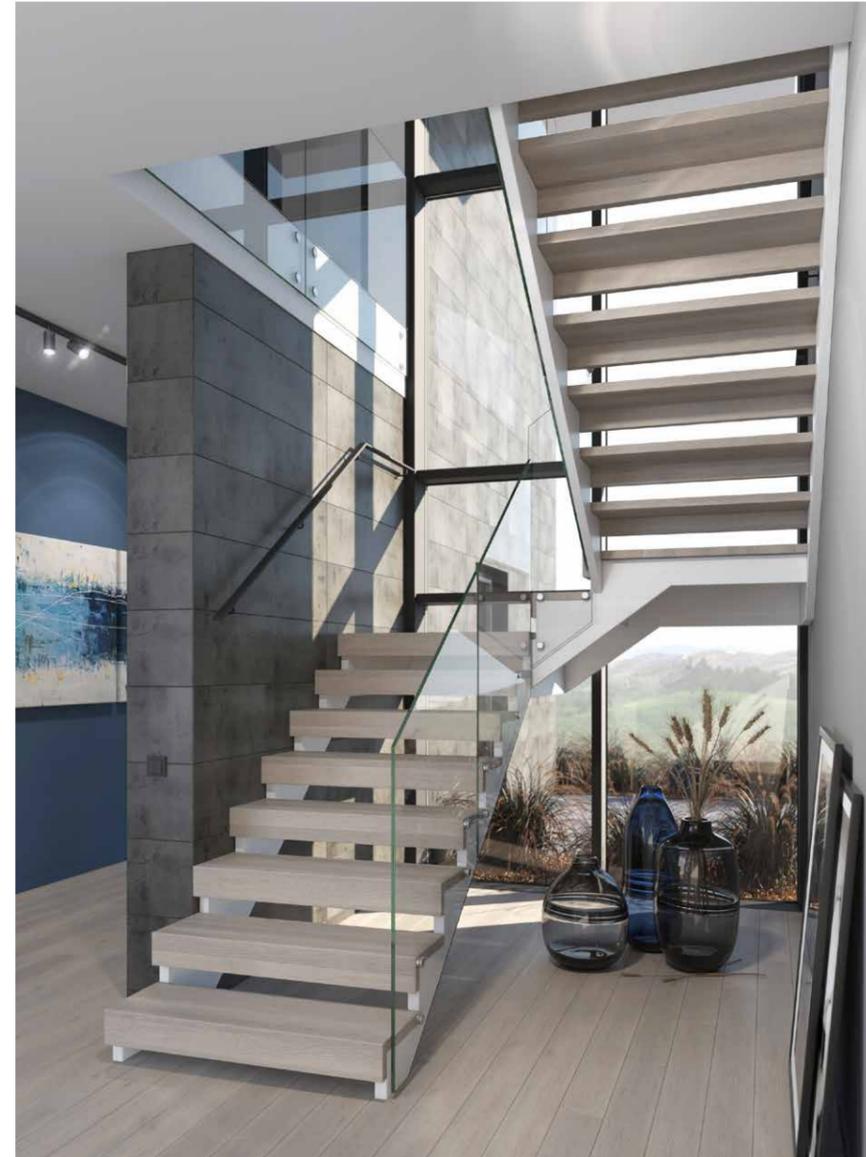
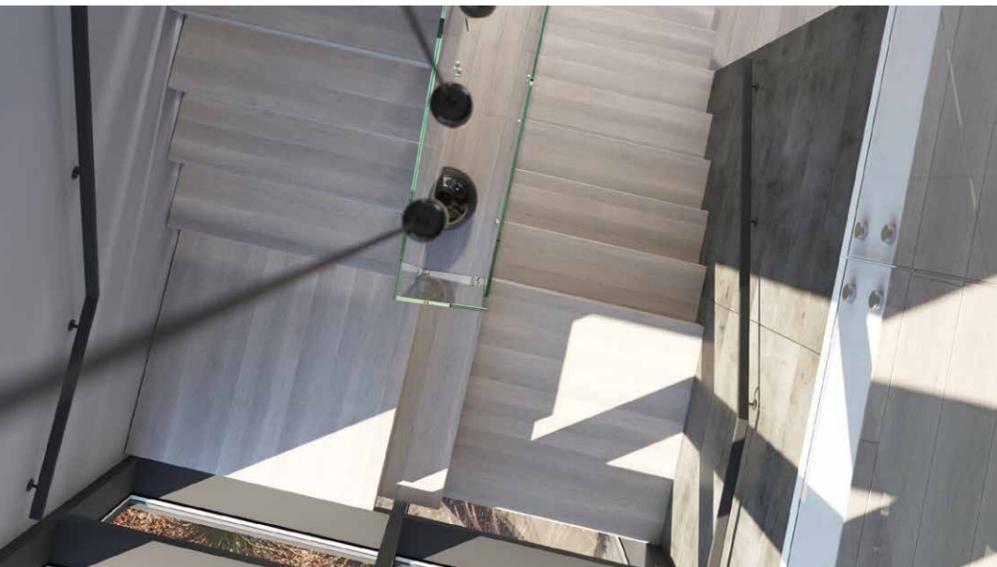
#### SHAPE



#### LED LIGHTS



Option descriptions provided in page 68.



**MODEL X03**

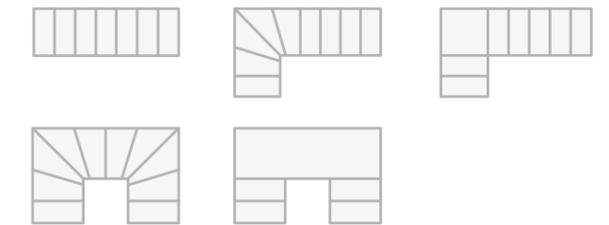
U shape staircase model with landing. Open (cut) type wooden strings under the steps from both sides and L shape safety riser to ensure safety requirements while also creating the impression of massive steps. Glass fence is attached to the step sides with distancers without any additional handrail on top. Wall handrail manufactured from metal.

**OPTIONS**

STEPS



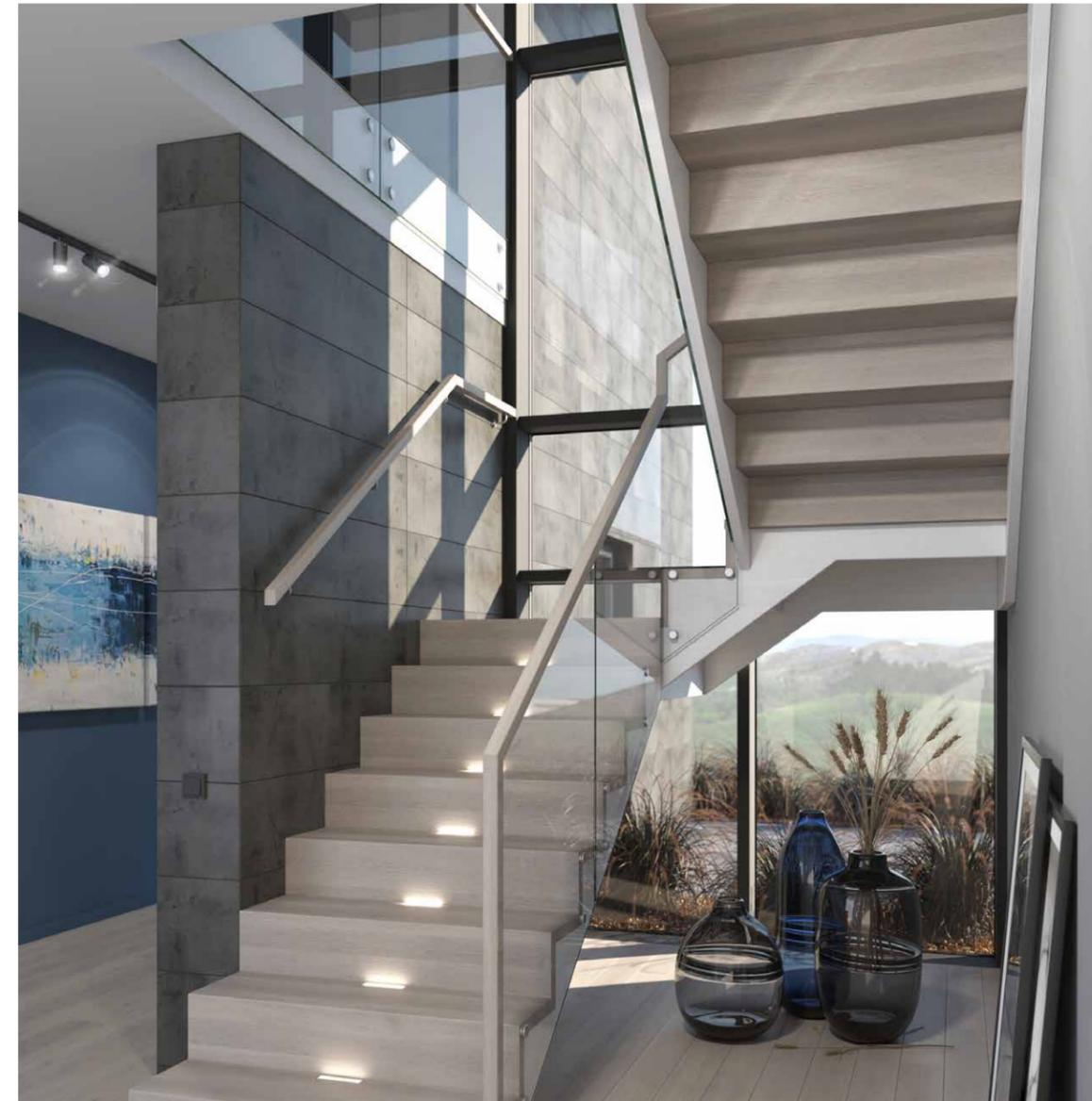
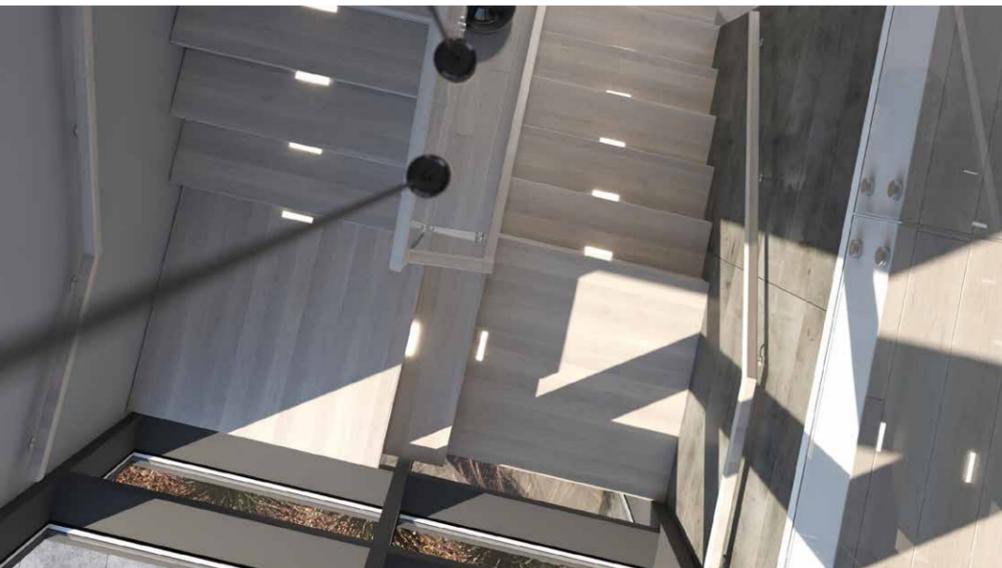
SHAPE



LED LIGHTS



Option descriptions provided in page 68.



### MODEL X04

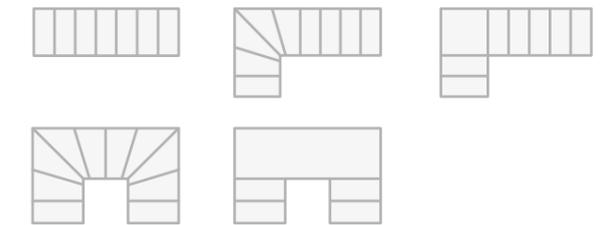
U shape staircase model with landing. Open (cut) type wooden strings under the steps from both sides and fully closed steps. Glass fence is attached to the step sides with wooden handrail on top which goes down to the first step bottom. Illuminated by LED lights in steps.

### OPTIONS

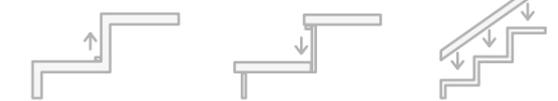
#### STEPS



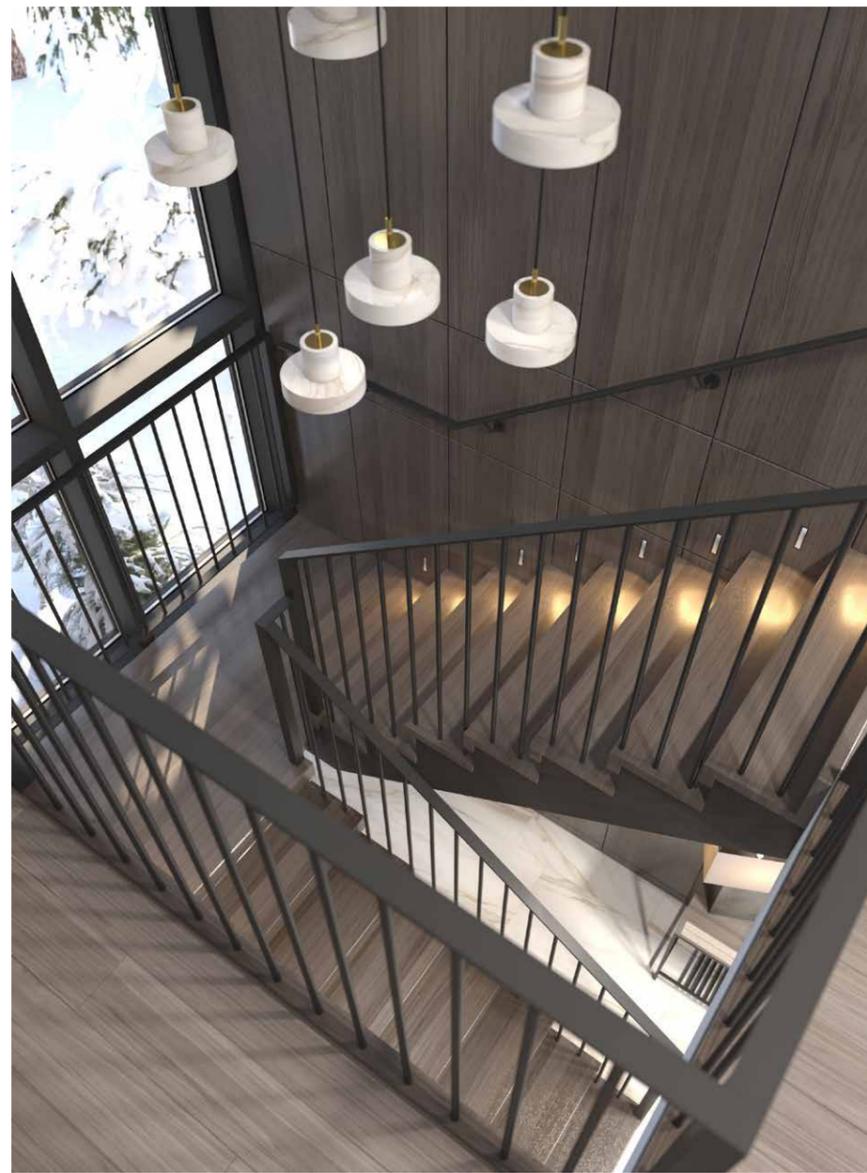
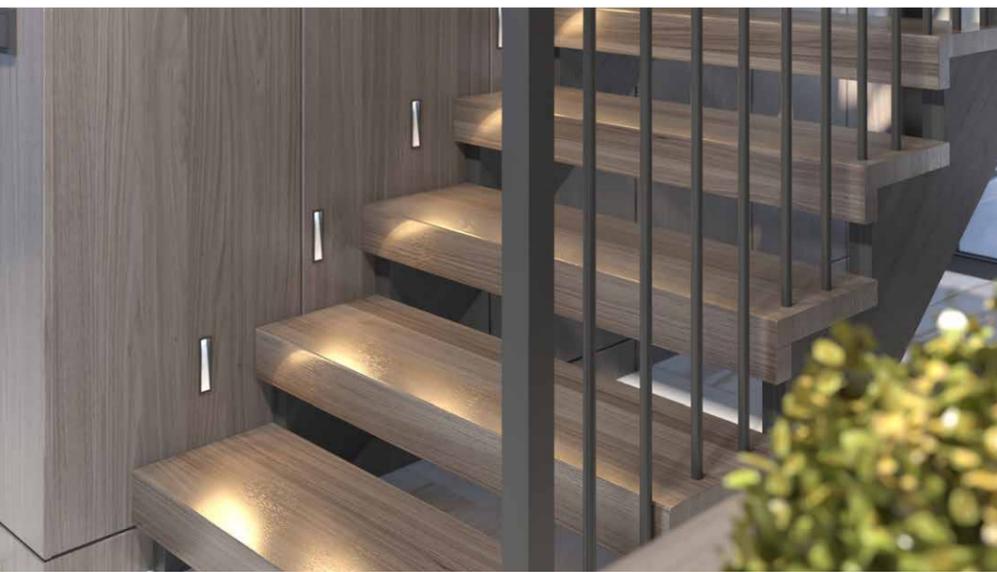
#### SHAPE



#### LED LIGHTS



Option descriptions provided in page 68.



**MODEL X05**

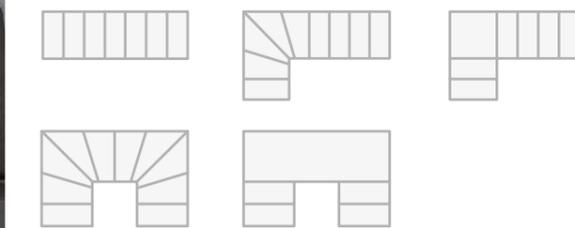
U shape staircase model with landing. Open (cut) type wooden strings under the steps from both sides. Steps have L shape safety risers to ensure safety requirements while creating an impression of massive steps. Balusters, post and handrails manufactured from metal.

**OPTIONS**

STEPS



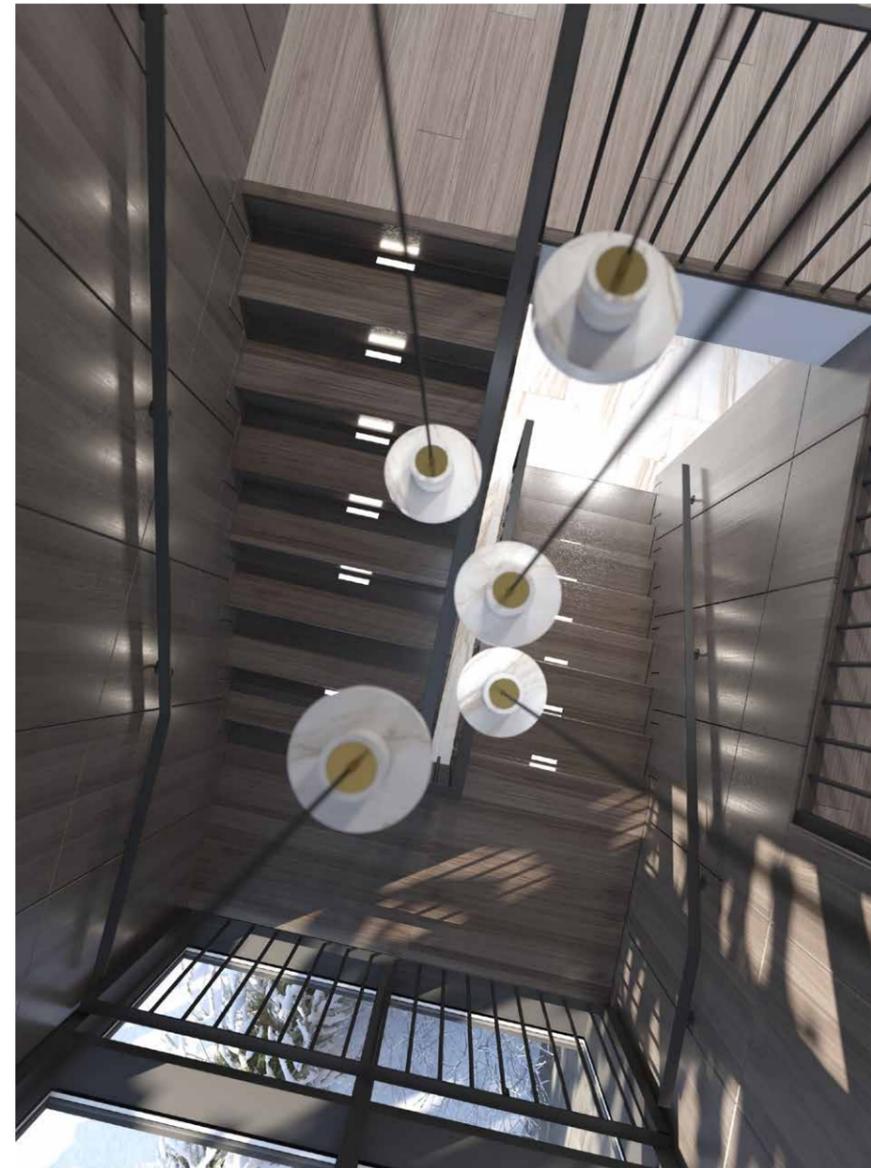
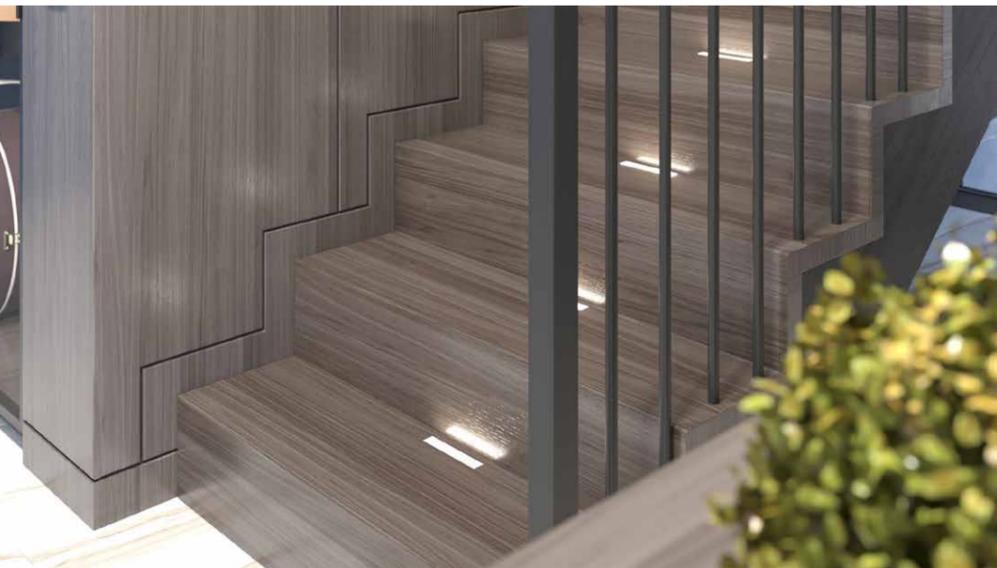
SHAPE



LED LIGHTS



Option descriptions provided in page 68.



**MODEL X06**

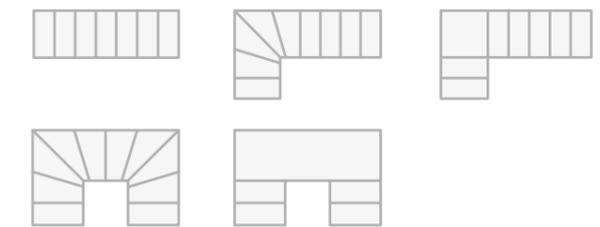
U shape staircase model with landing. Open (cut) type wooden strings under the steps from both sides. Fully closed steps illuminated by LED lights. Balusters, post and handrails manufactured from metal.

**OPTIONS**

STEPS



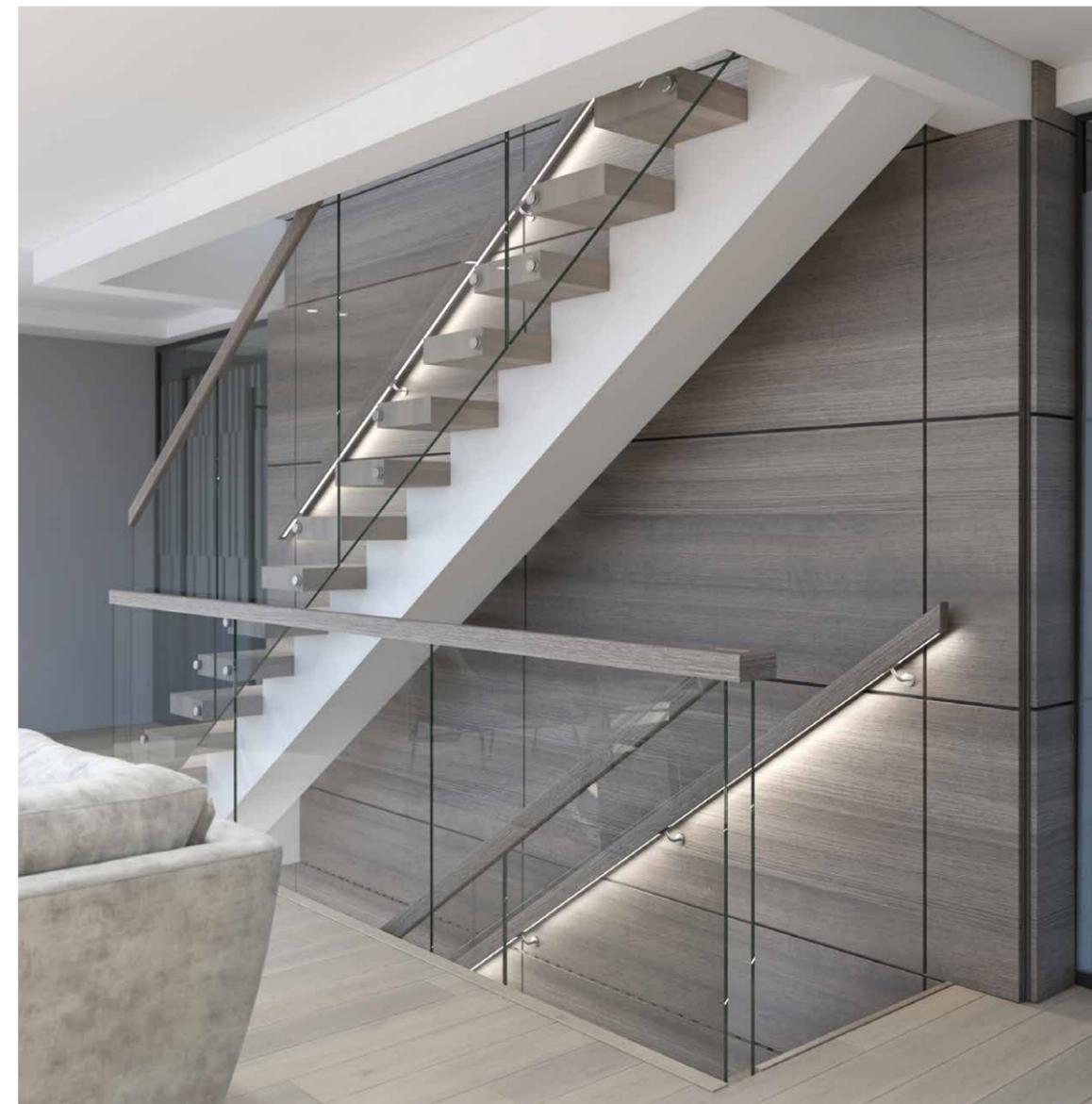
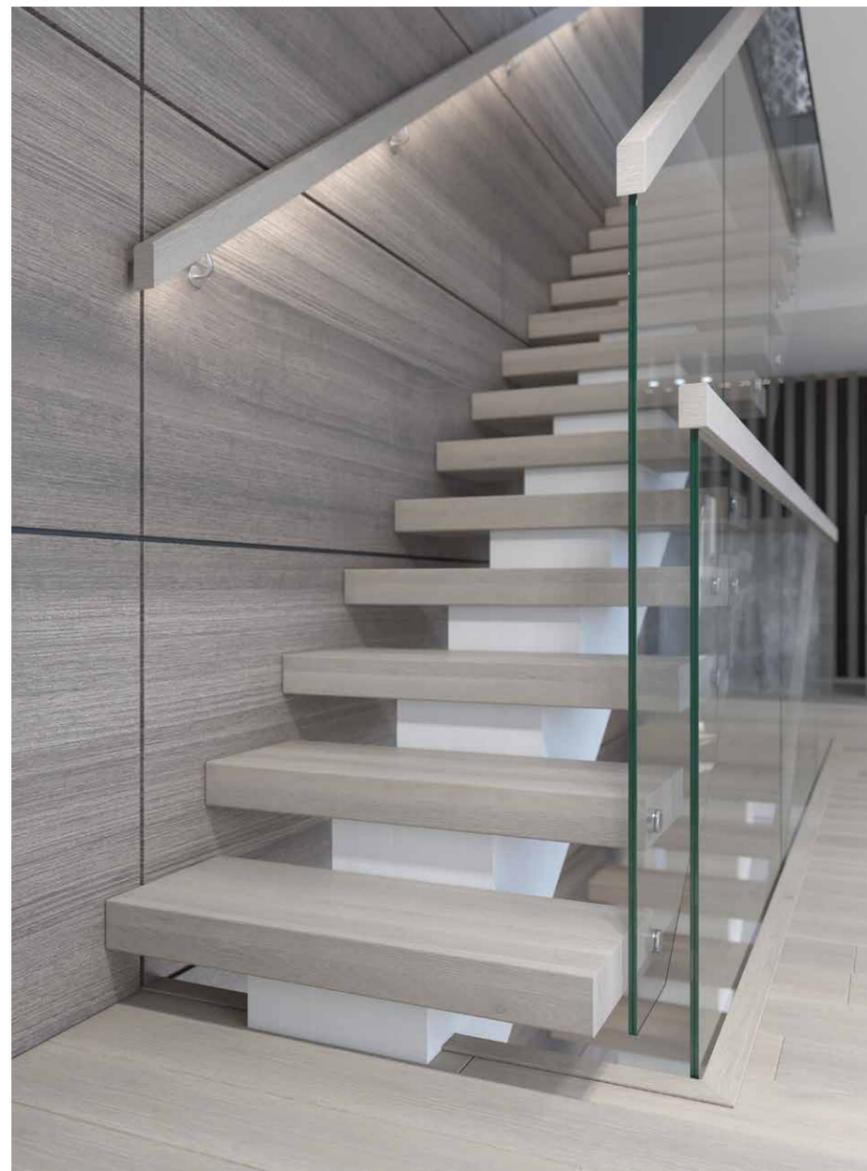
SHAPE



LED LIGHTS



Option descriptions provided in page 68.



**MODEL X07**

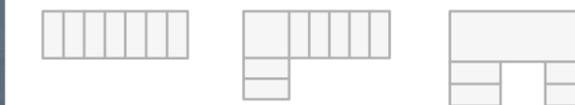
I shape staircase model with 80mm thickness steps. The massive steps create an exclusive and luxurious design view. Wooden box type stringer under the steps in the center. Glass fence attached to the step sides with the wooden handrail on top. Wall wooden handrail illuminated by LED lights.

**OPTIONS**

STEPS



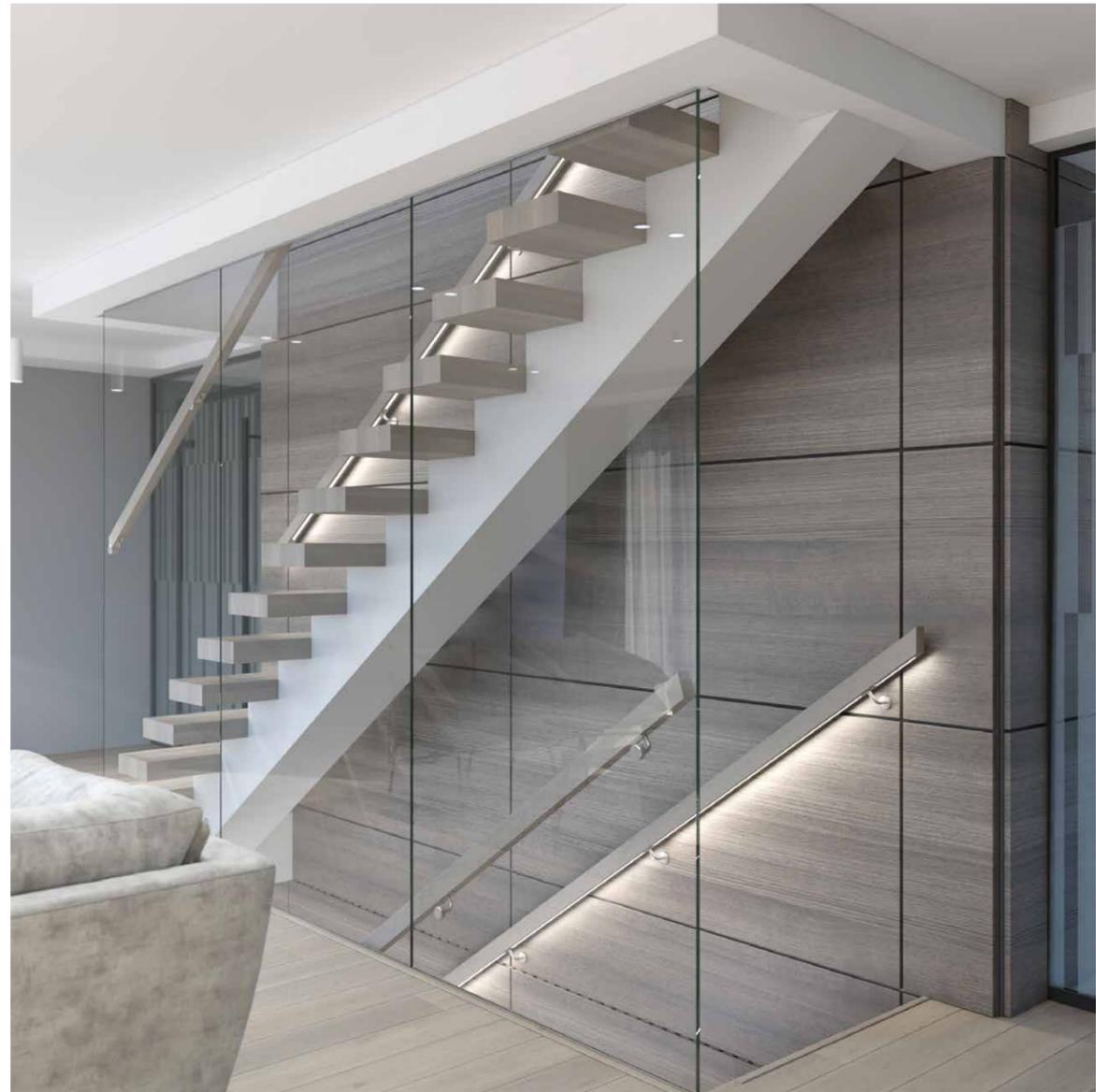
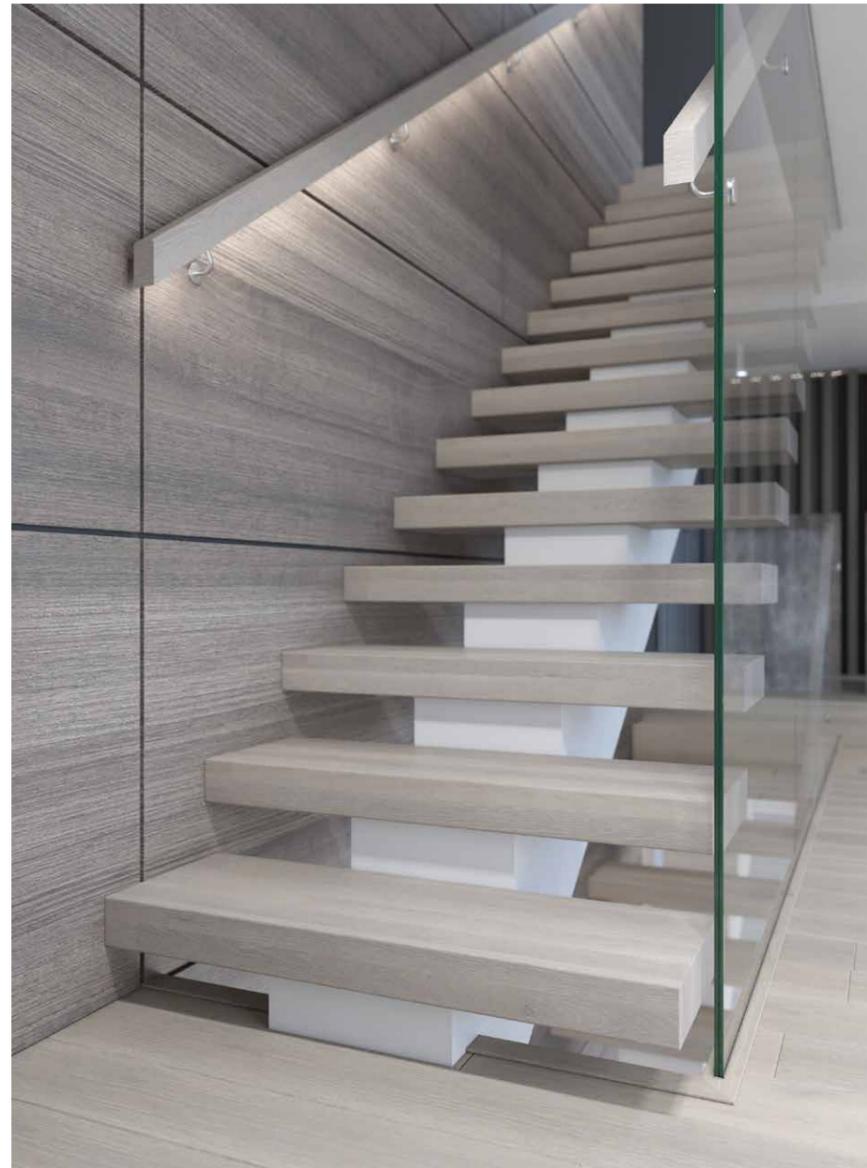
SHAPE



LED LIGHTS



Option descriptions provided in page 68.



**MODEL X08**

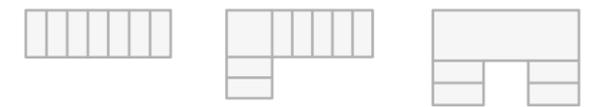
I shape staircase model with 80mm thickness steps. Wooden box type string under steps in the center. Glass fence goes from floor to ceiling. This type of glass fence is recommended to use if basement or lower floor is going down as the fence in the first floor can close the space under the staircase. Wooden wall handrail illuminated by LED lights.

**OPTIONS**

STEPS



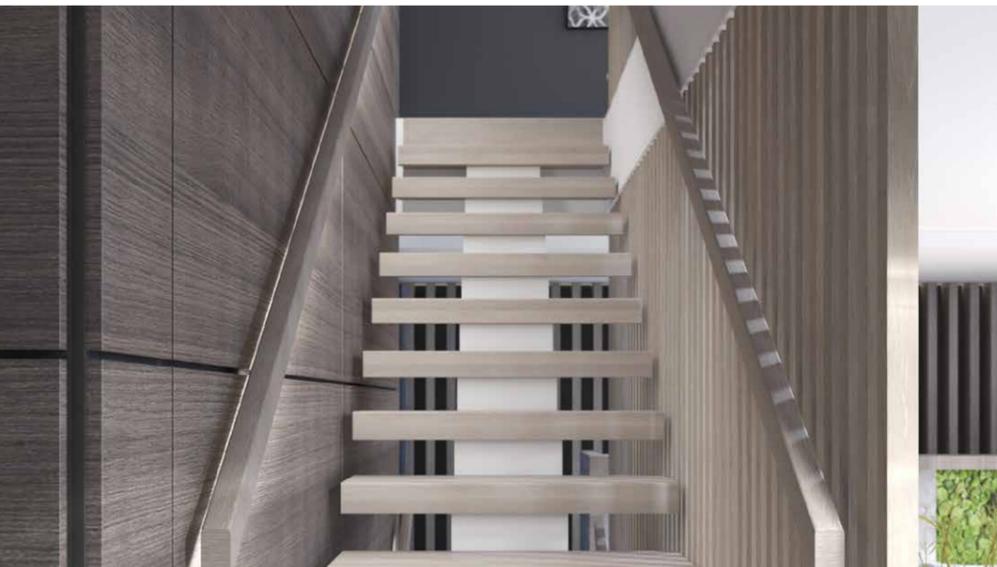
SHAPE



LED LIGHTS



Option descriptions provided in page 68.



**MODEL X09**

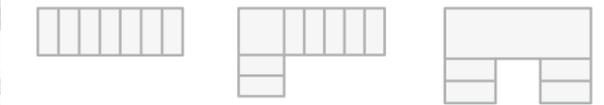
I shape staircase model with 39mm thickness steps and L shape safety riser. Wooden box type string under step in the center and wooden fence which goes from floor to ceiling. Such wooden fence is recommended to use if basement or lower floor is going down as using such fence in the first floor closes the space under the staircase. All handrails are wooden. Wooden wall handrail illuminated by LED lights.

**OPTIONS**

STEPS



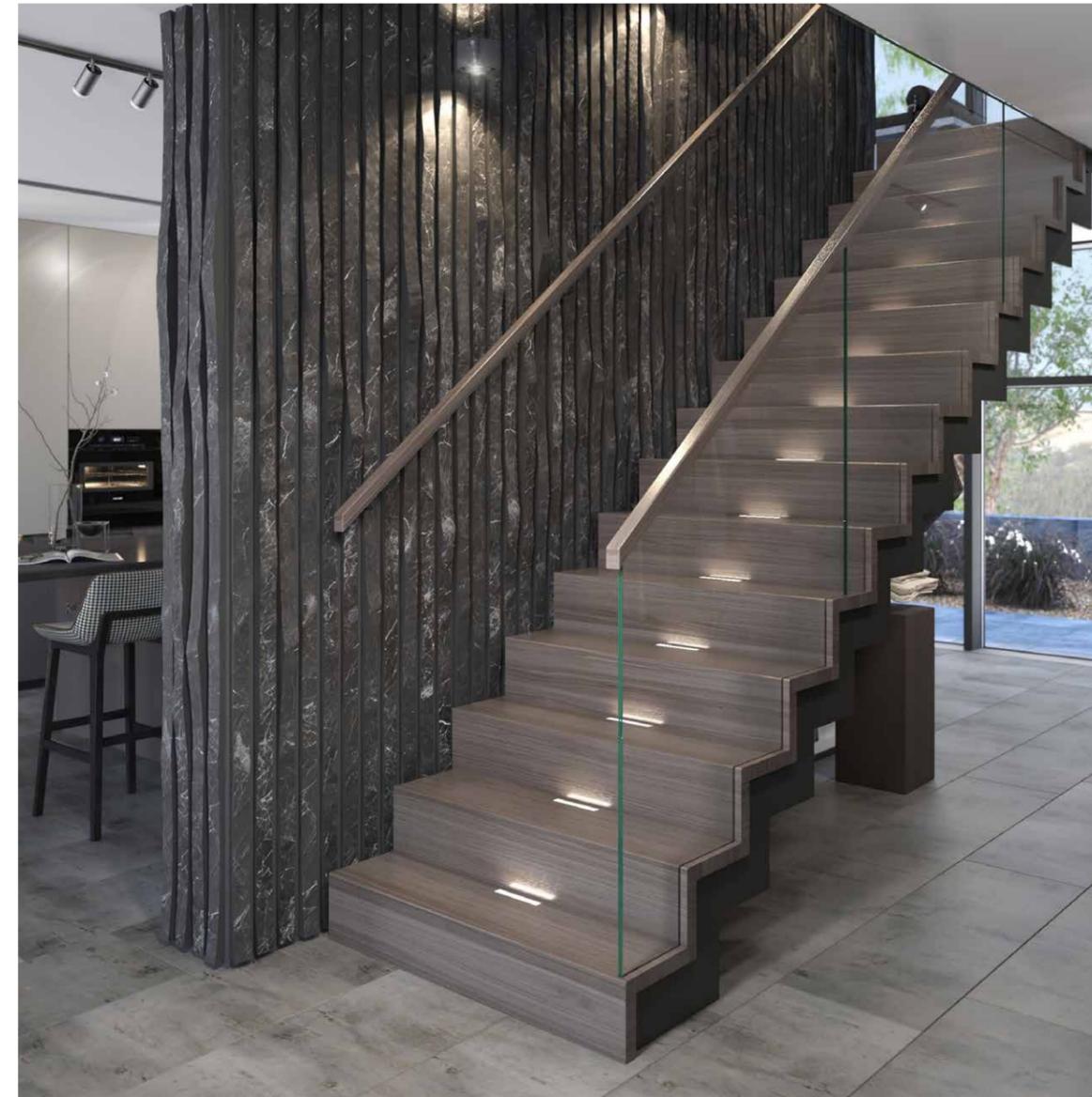
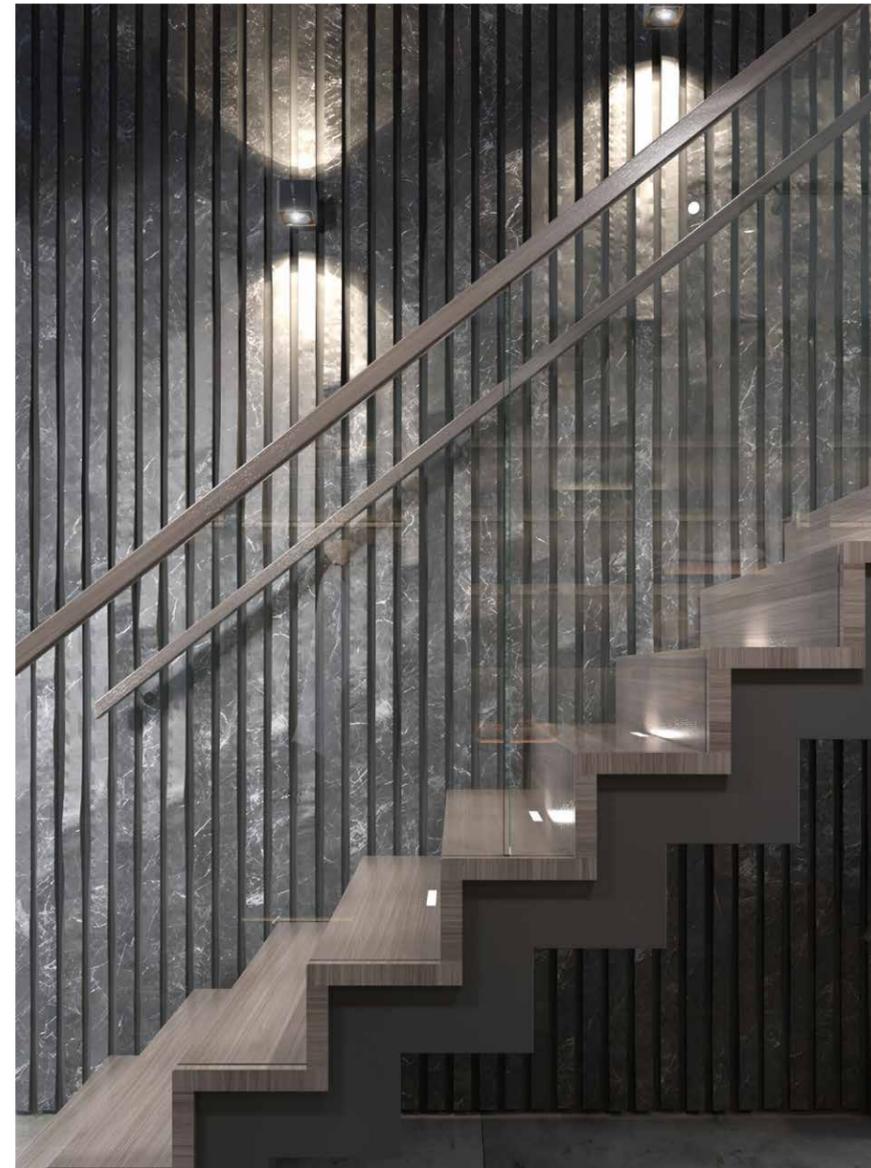
SHAPE



LED LIGHTS



Option descriptions provided in page 68.



### MODEL X10

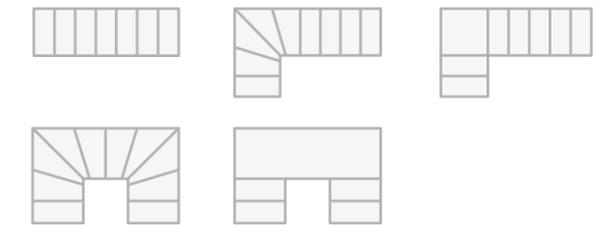
I shape staircase model with exclusive metal string type which also named as open (cut cut) type from both sides under the steps. Fully closed steps illuminated by LED lights. Glass fence milled into steps with the wooden handrail on top.

### OPTIONS

#### STEPS



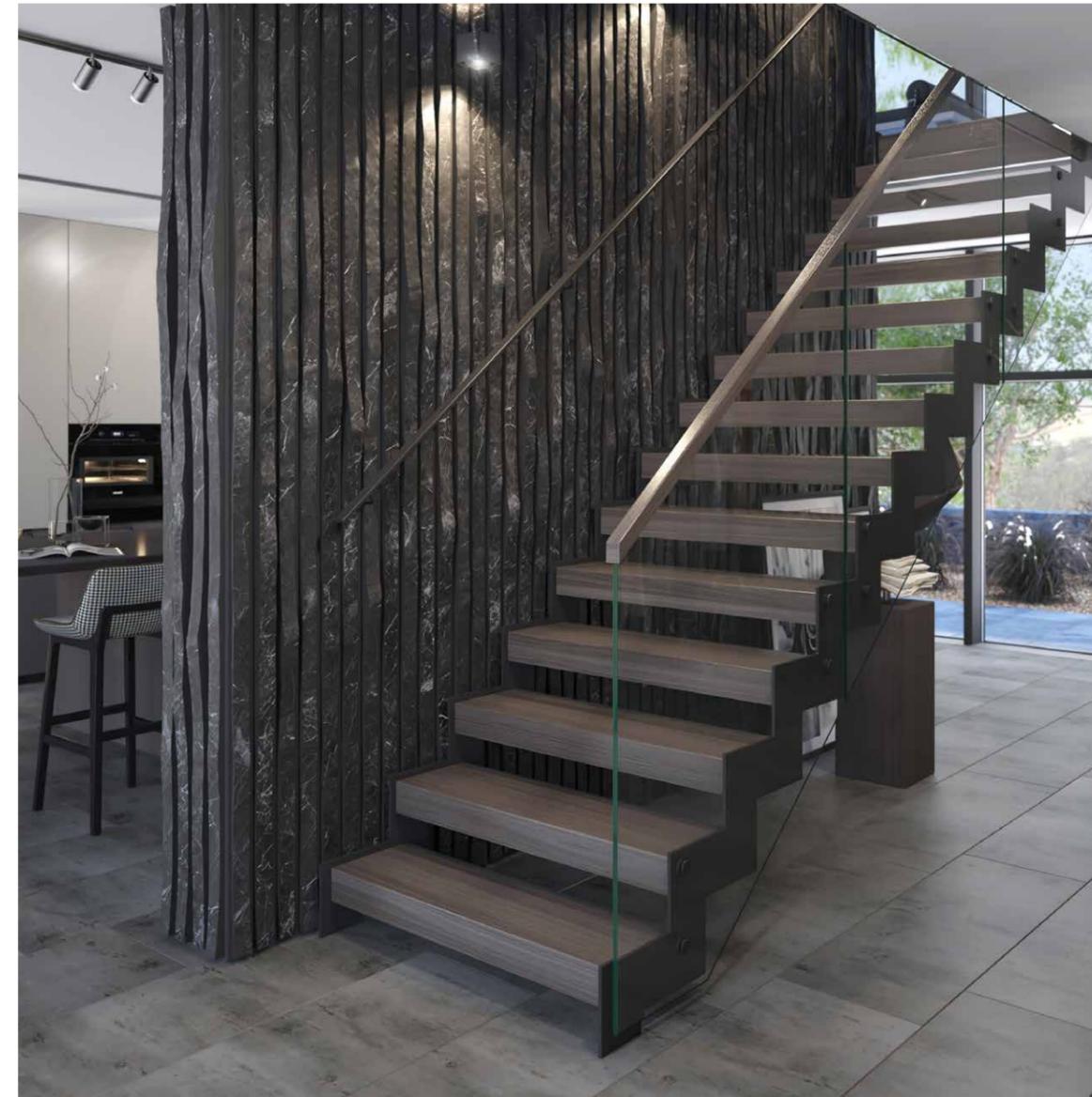
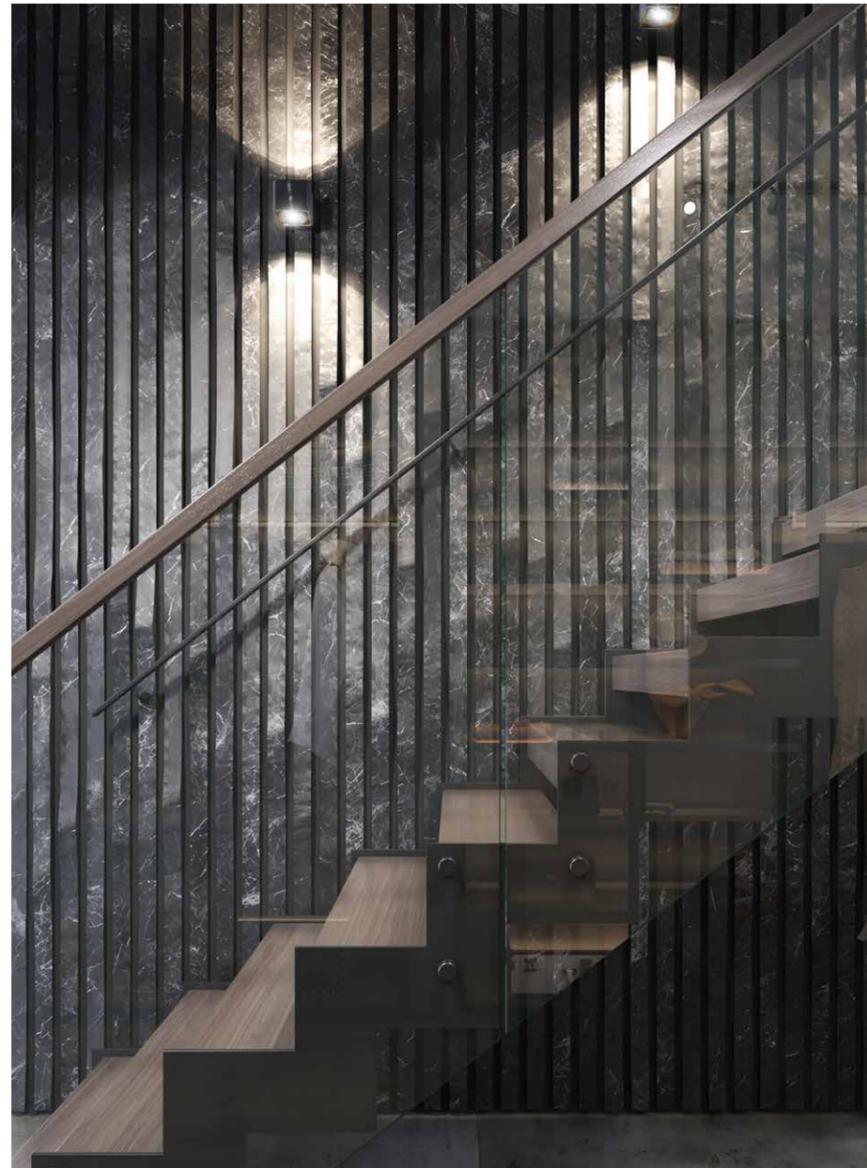
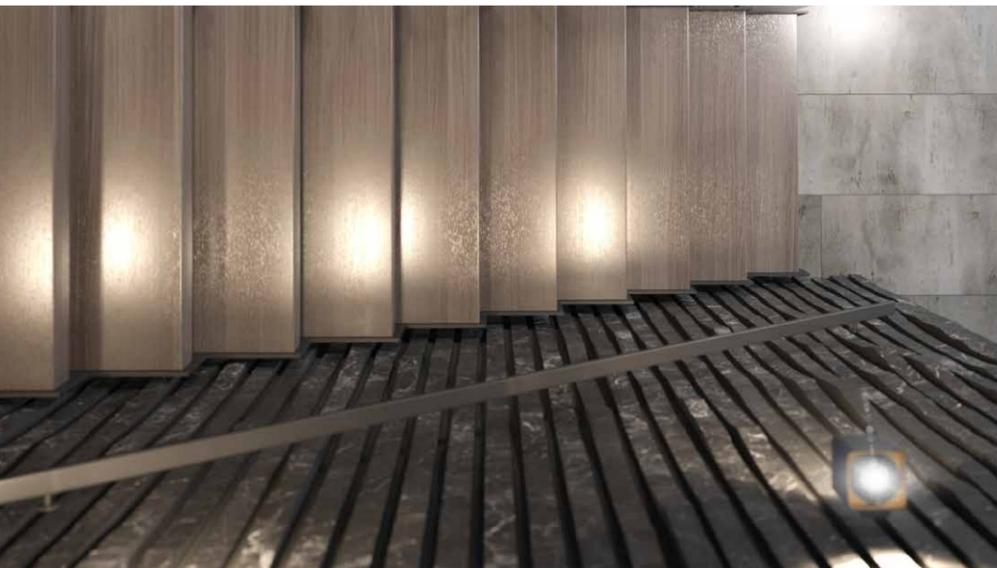
#### SHAPE



#### LED LIGHTS



Option descriptions provided in page 68.

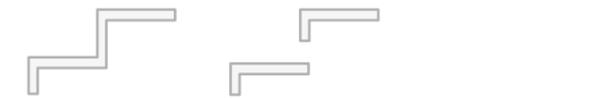


**MODEL X11**

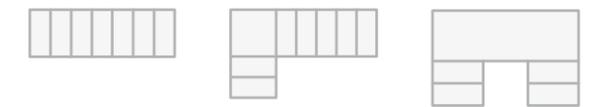
I shape staircase model with very exclusive metal string type which also named as open (cut cut) type from both sides. Open 39mm thickness steps with L shape safety risers. Glass fence fastened to string side with distancers. Wooden handrail goes on top of the glass fence. Wall handrail made from metal.

**OPTIONS**

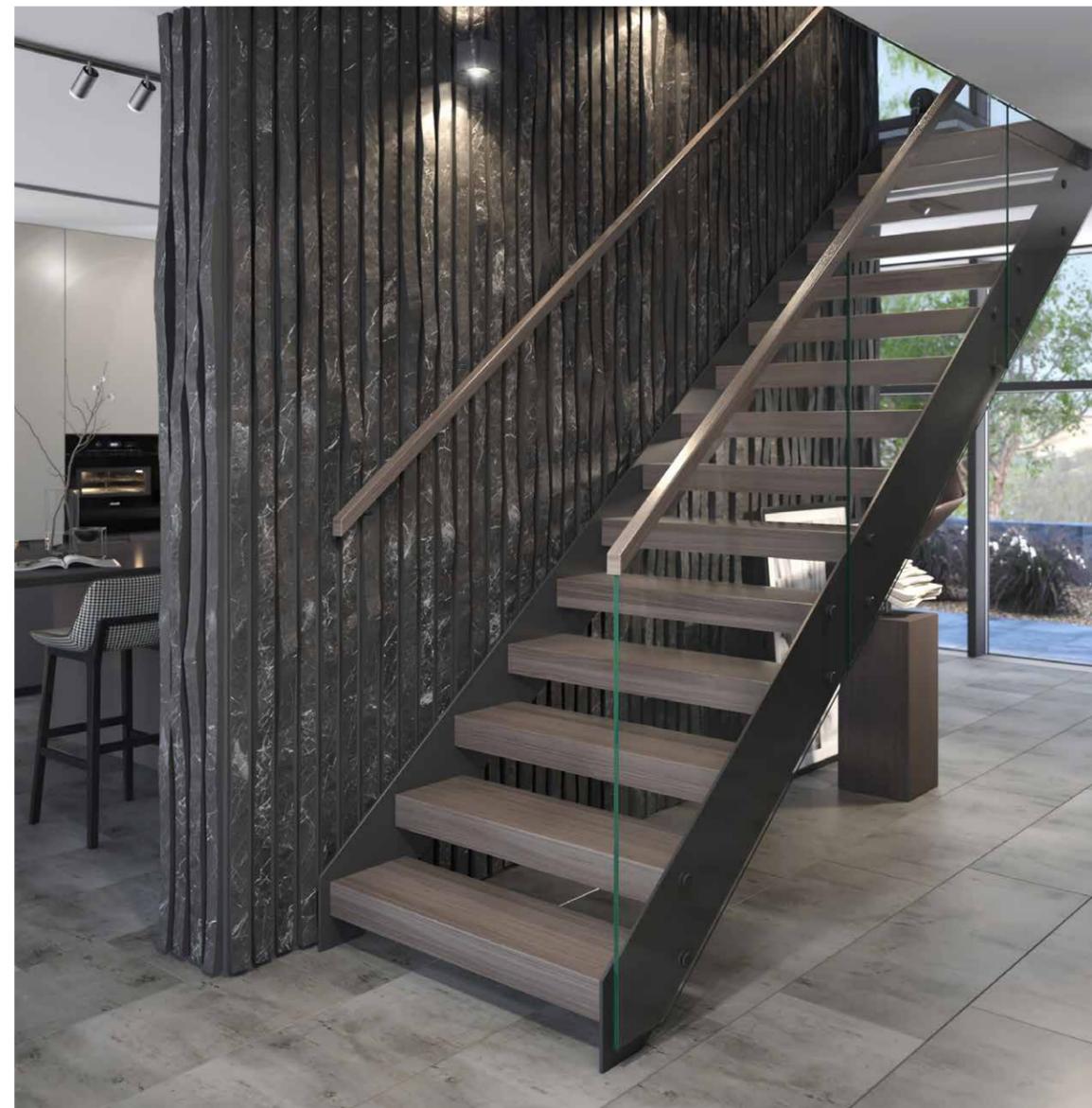
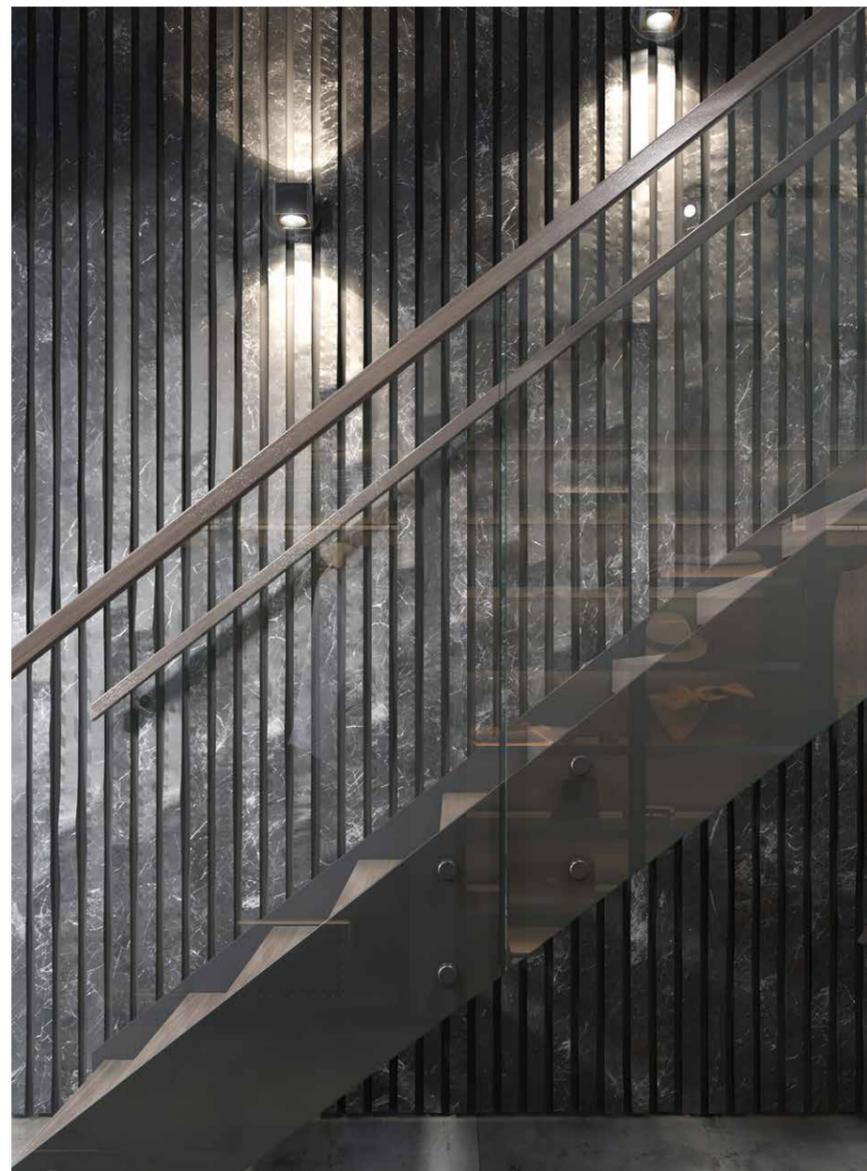
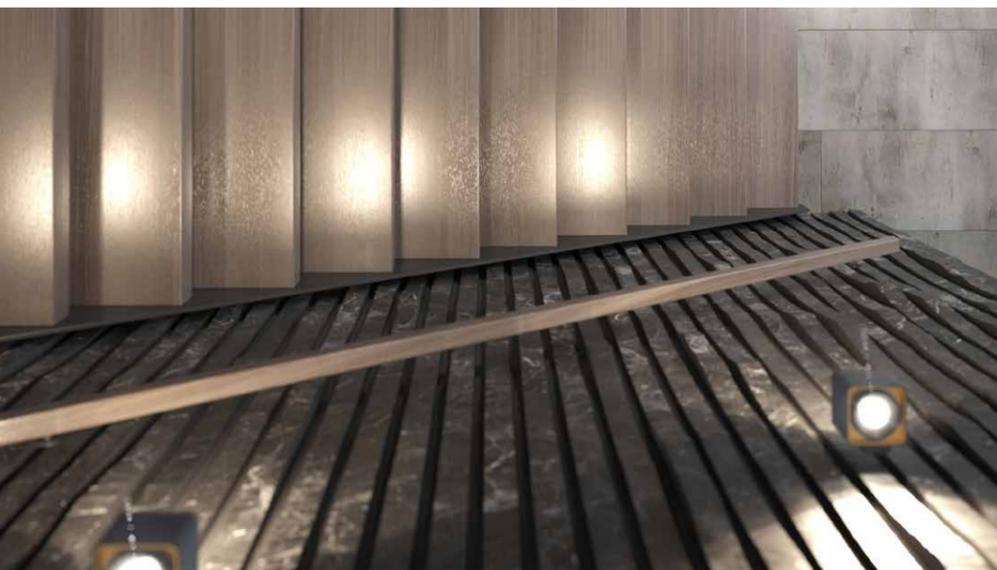
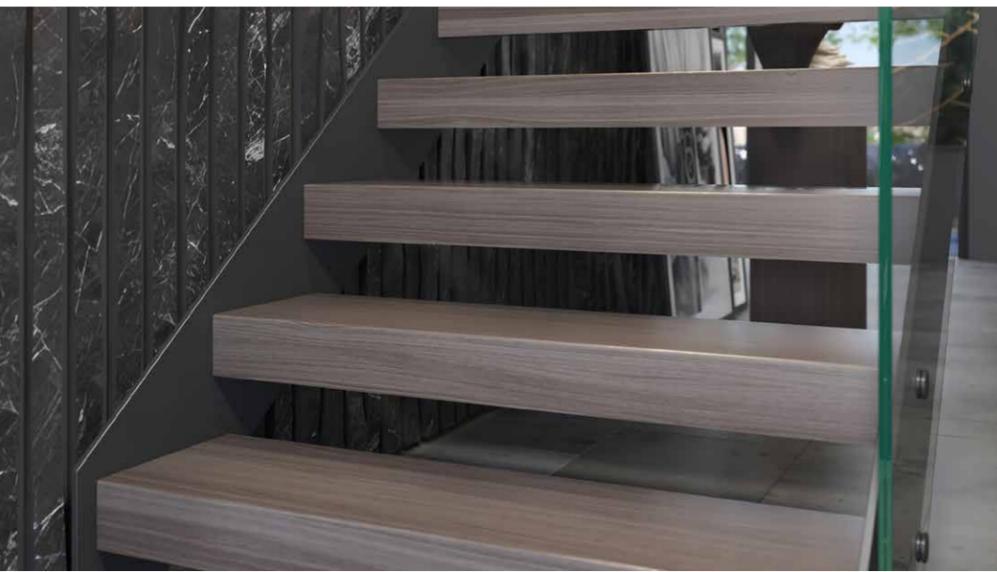
STEPS



SHAPE



Option descriptions provided in page 68.



**MODEL X12**

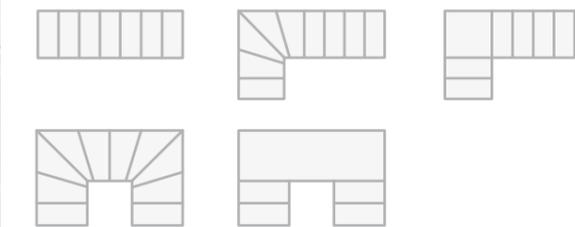
I shape staircase model. Closed (housed) type metal strings from both sides. Open 39mm thickness steps with L shape safety riser. Glass fence fastened to string with distancers. Wooden handrail goes on top of the glass fence and wall.

**OPTIONS**

STEPS



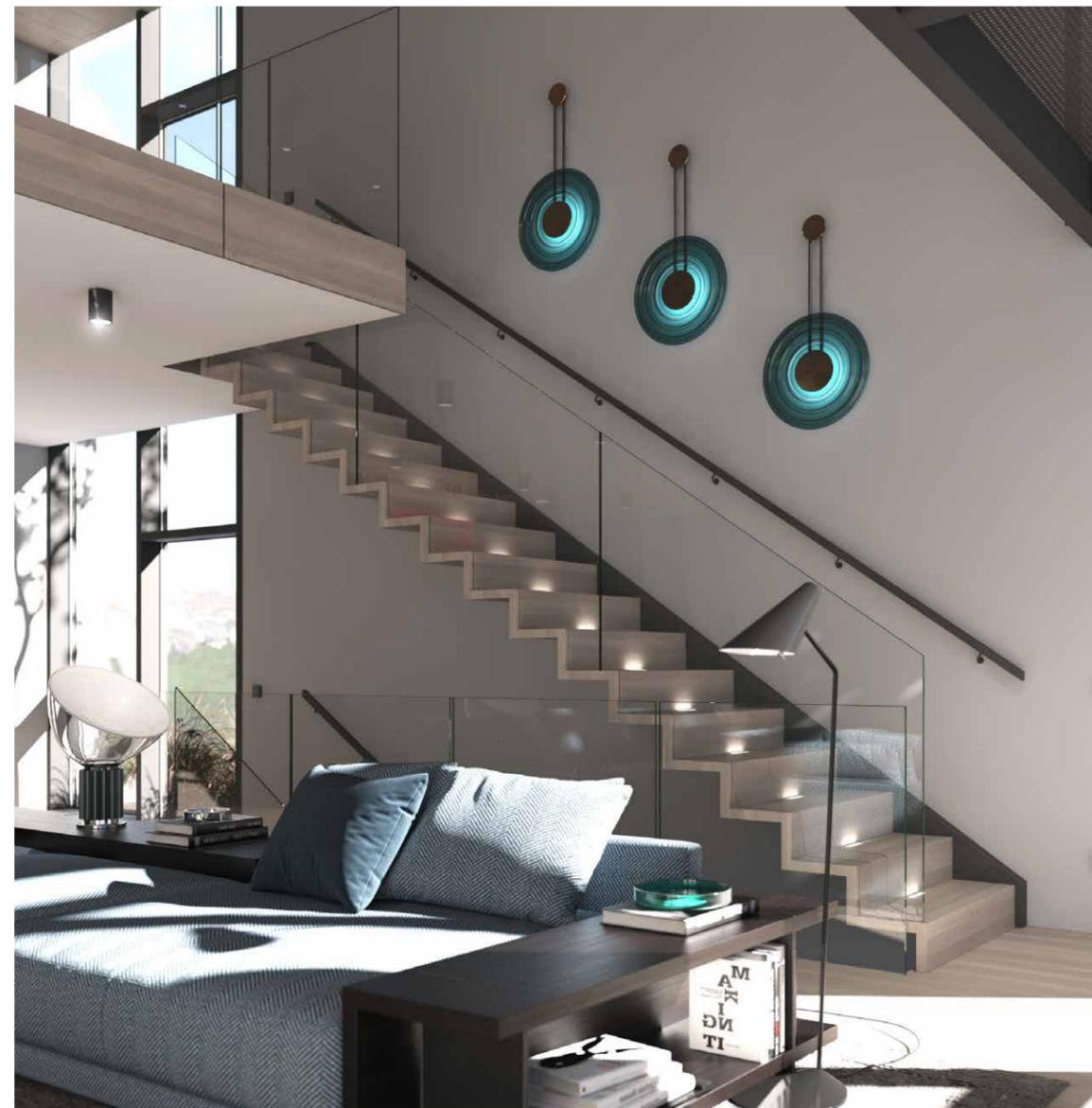
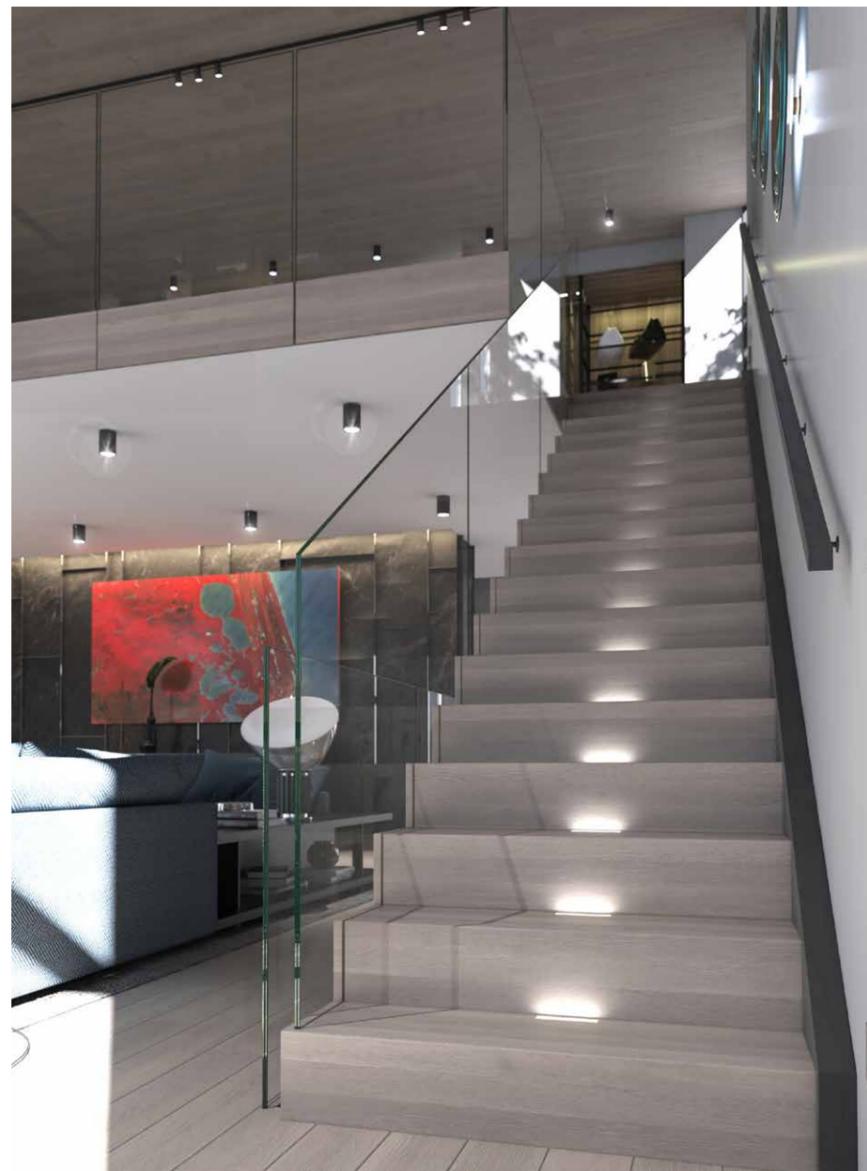
SHAPE



LED LIGHTS



Option descriptions provided in page 68.



### MODEL X13

I shape staircase model with fully closed steps illuminated by LED lights. Wooden closed (housed) wall string (min. thickness 60mm) without outside string. Glass fence milled into steps without any handrail on top. Wooden wall handrail.

### OPTIONS

STEPS



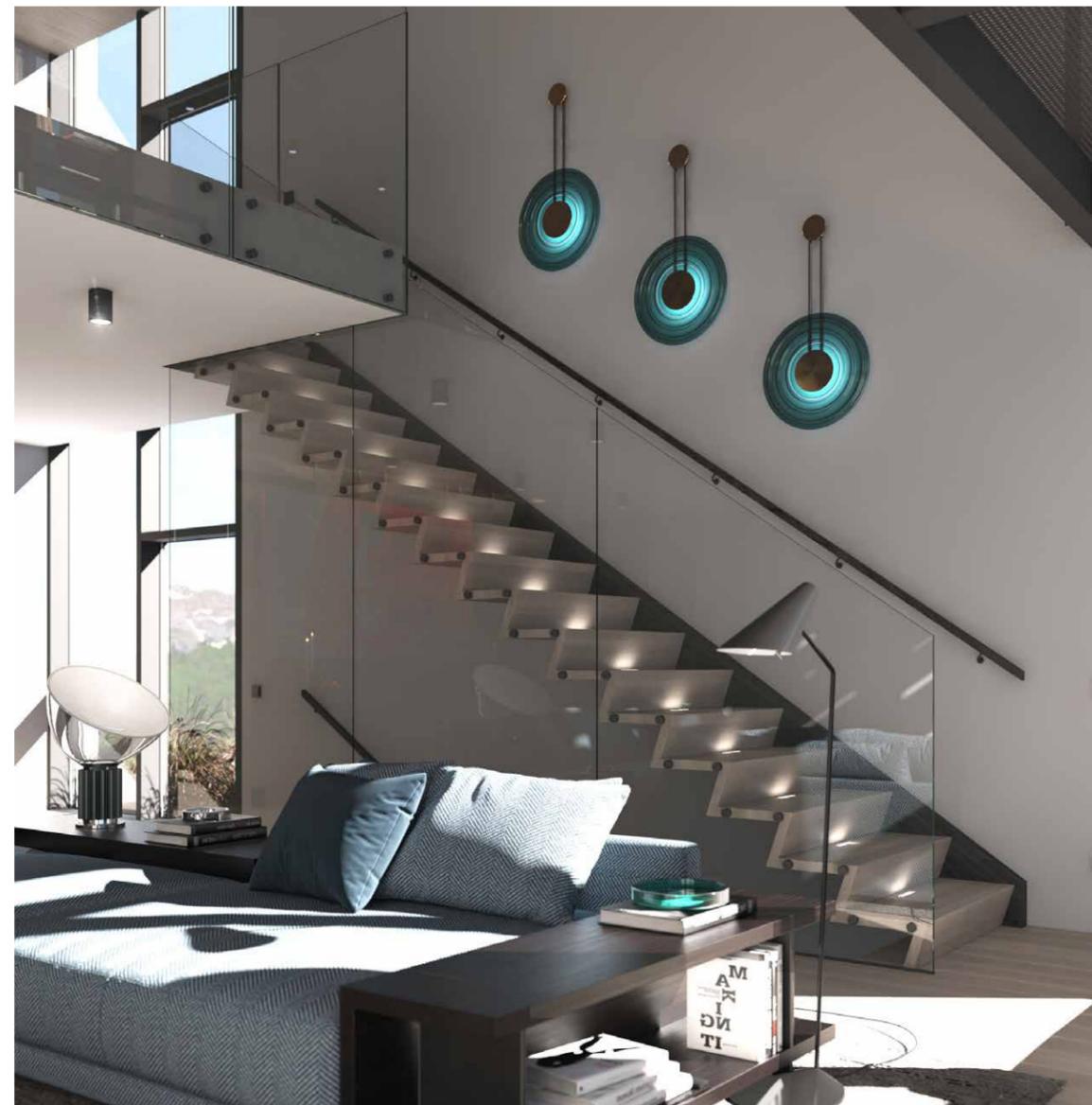
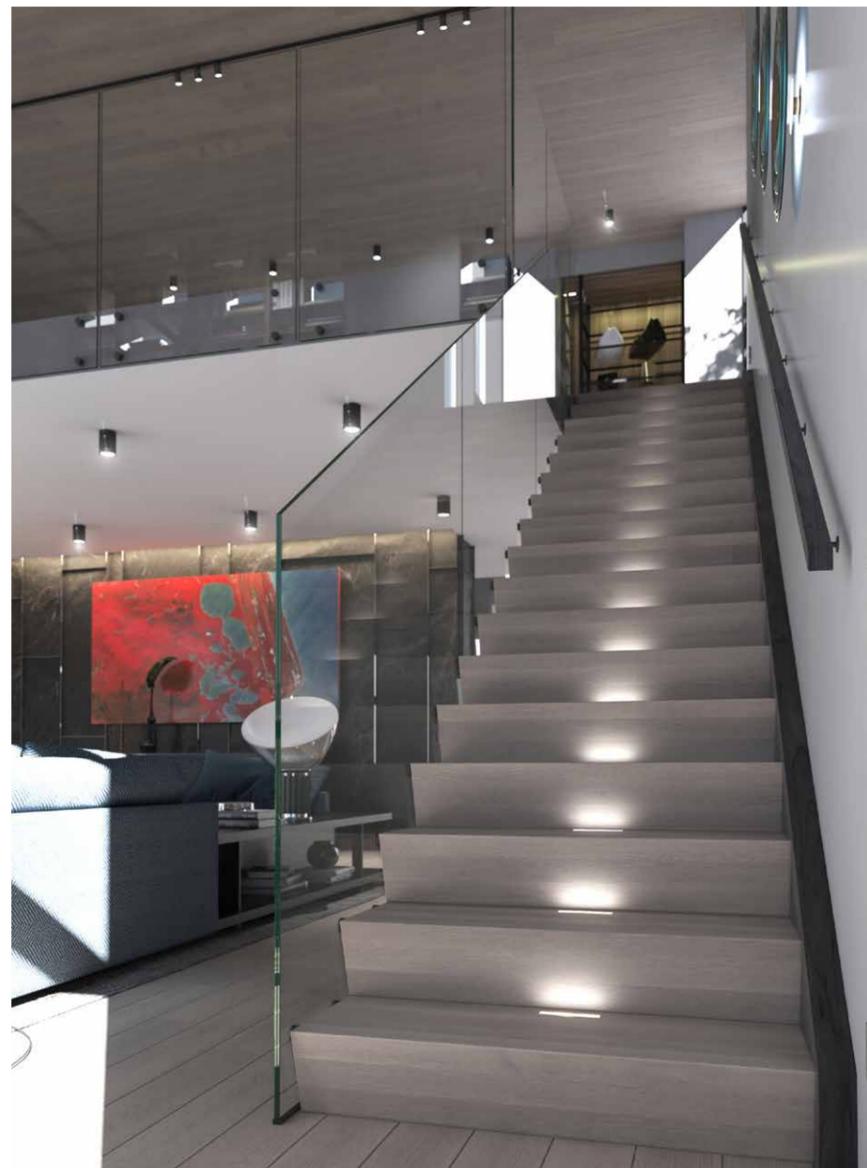
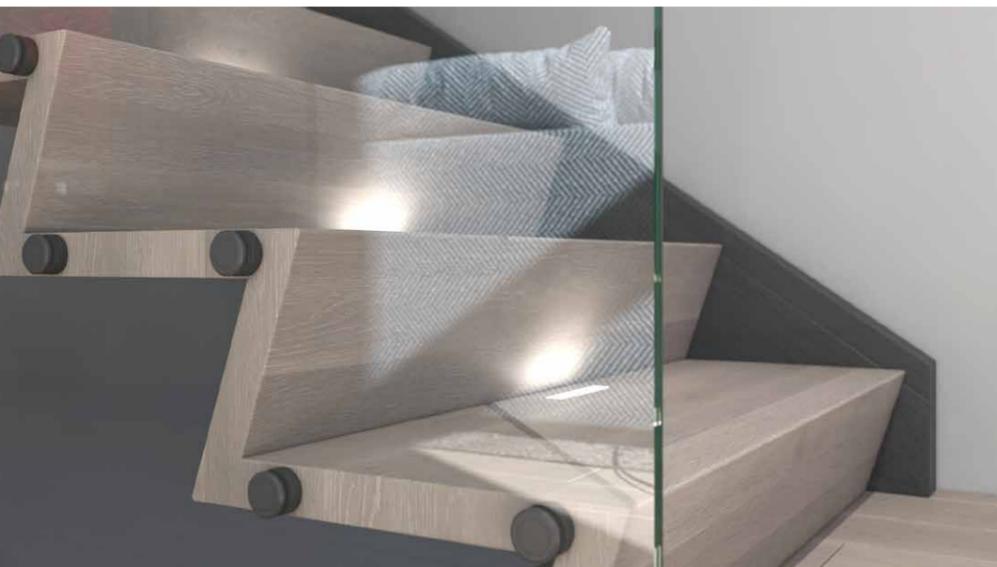
SHAPE



LED LIGHTS



Option descriptions provided in page 68.



## MODEL X14

I shape staircase model with fully closed Z form steps illuminated by LED lights. Wooden closed (housed) wall string (min. thickness 60mm) without outside string. Wooden wall handrail. Glass fence fastened to step sides with distancers and goes from ceiling. This type of fence is recommended for use if the basement or lower floor is going down, as the fence in the first floor closes the space under the staircase.

## OPTIONS

### STEPS



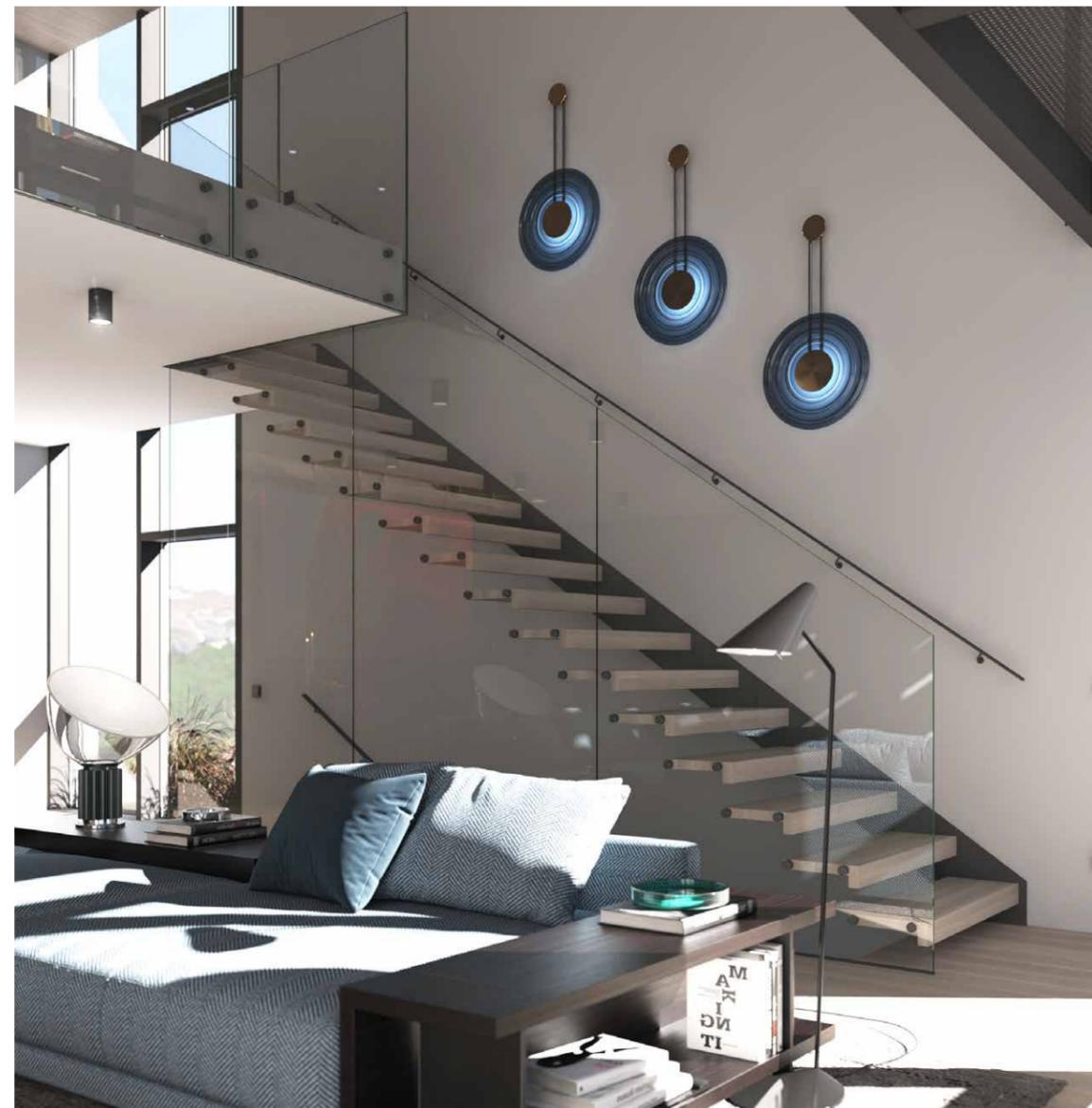
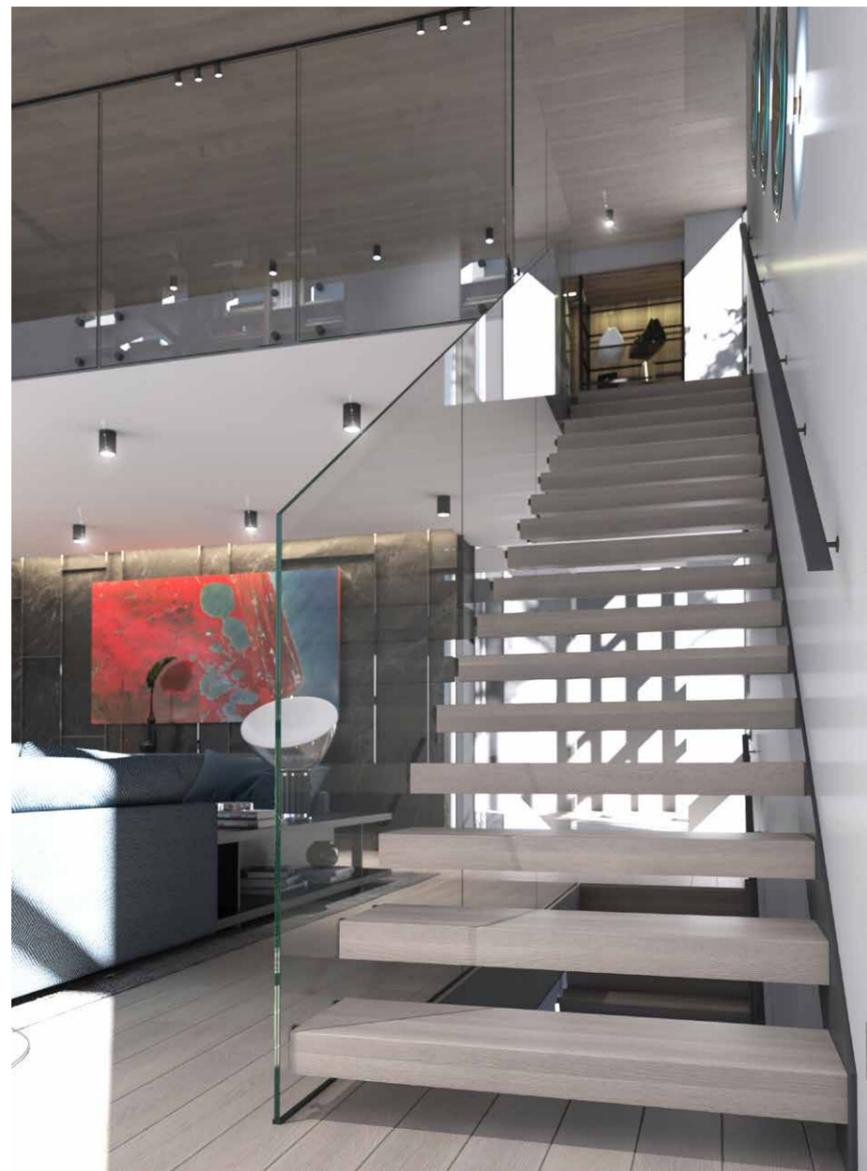
### SHAPE



### LED LIGHTS



Option descriptions provided in page 68.



### MODEL X15

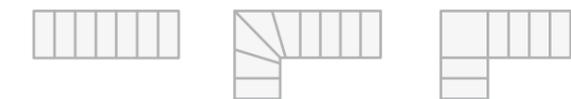
I shape staircase model with 39mm thickness steps and L shape safety risers. Metal closed (housed) wall string without outside string. Metal wall handrail. Glass fence fastened to step sides with distancers and goes from ceiling. This type of fence is recommended for use if the basement or lower floor is going down as using such fence in the first floor closes the space.

### OPTIONS

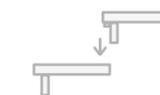
#### STEPS



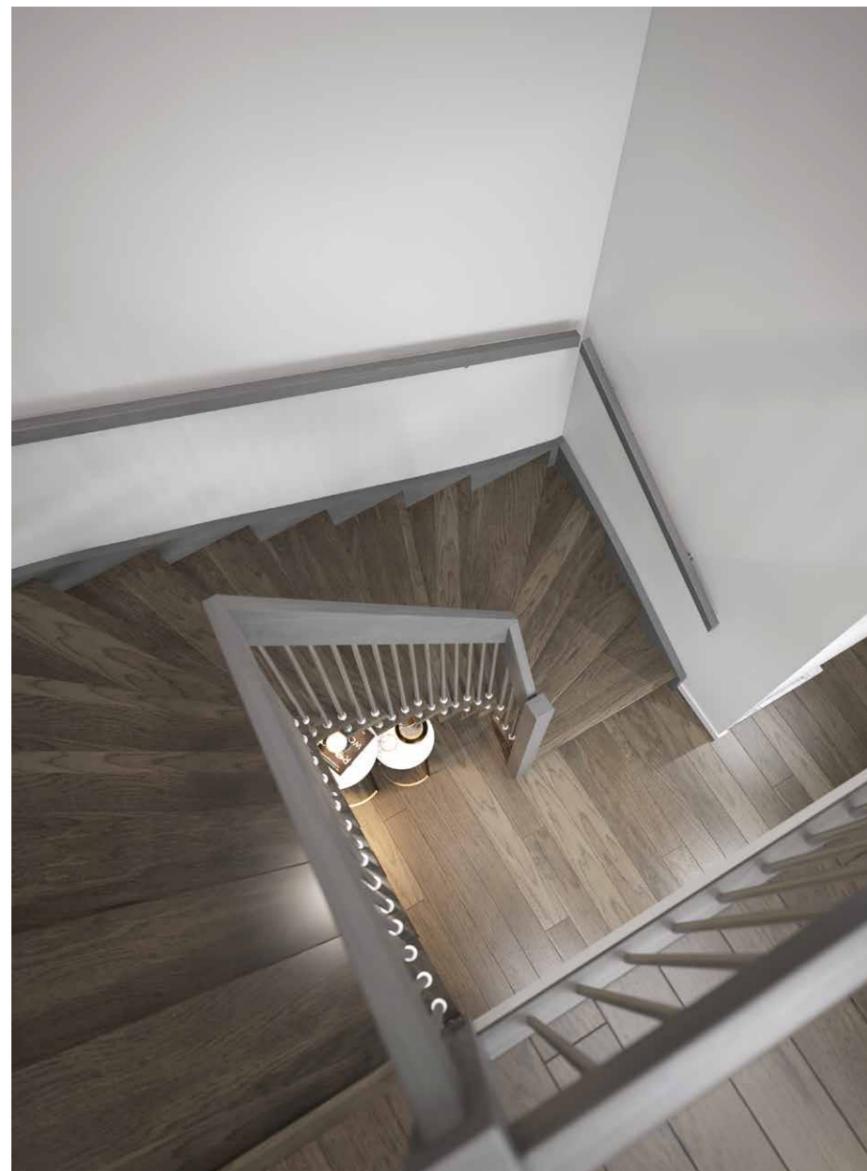
#### SHAPE



#### LED LIGHTS



Option descriptions provided in page 68.



### MODEL X16

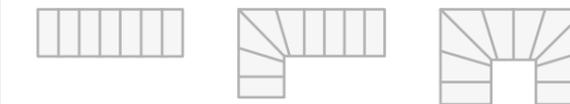
U shape staircase model with 39mm thickness steps and safety risers. Wooden closed (housed) wall string without outside string. Stainless steel fence milled into steps with wooden handrail on top and wooden wall handrail.

### OPTIONS

#### STEPS



#### SHAPE



#### LED LIGHTS

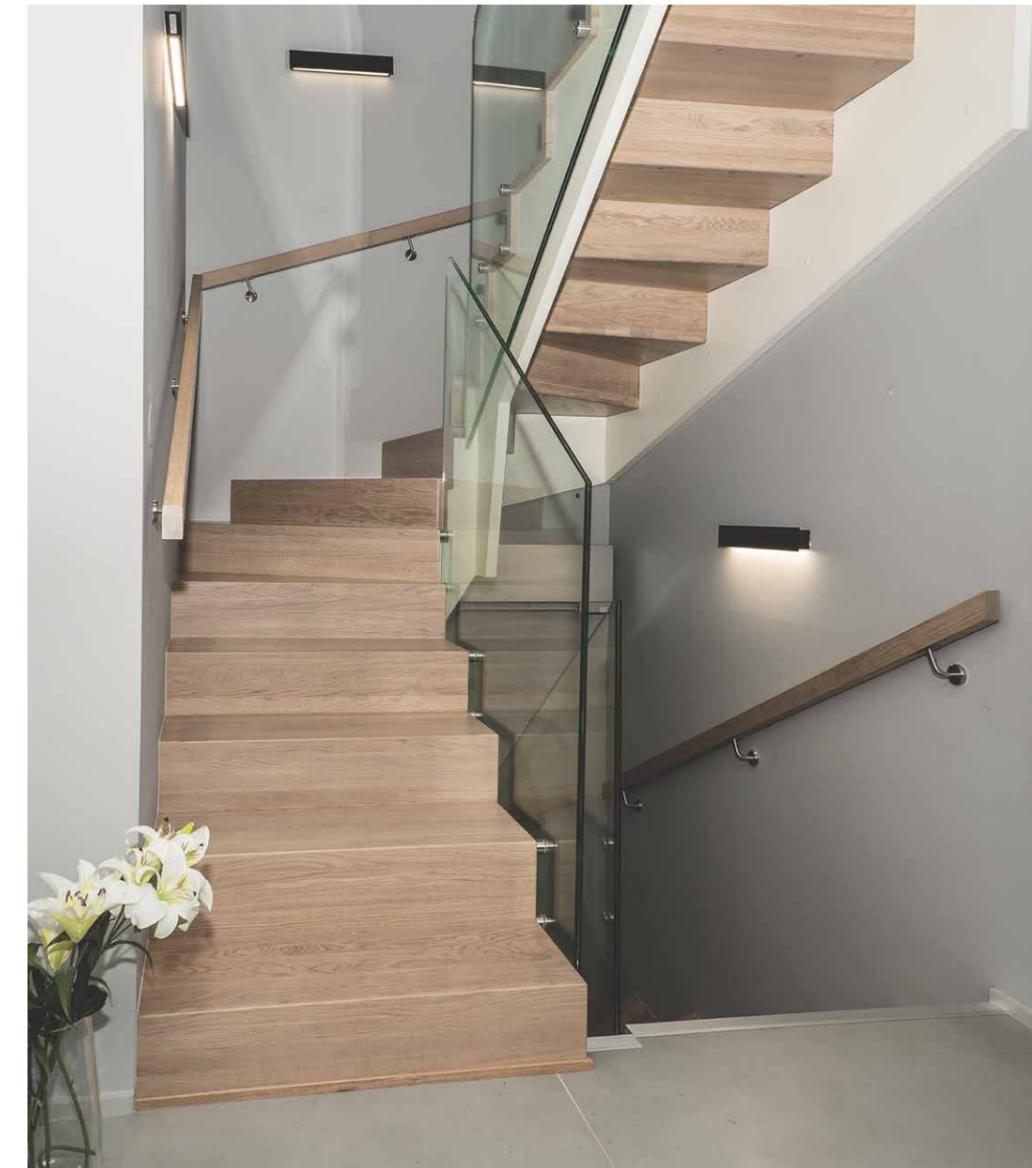


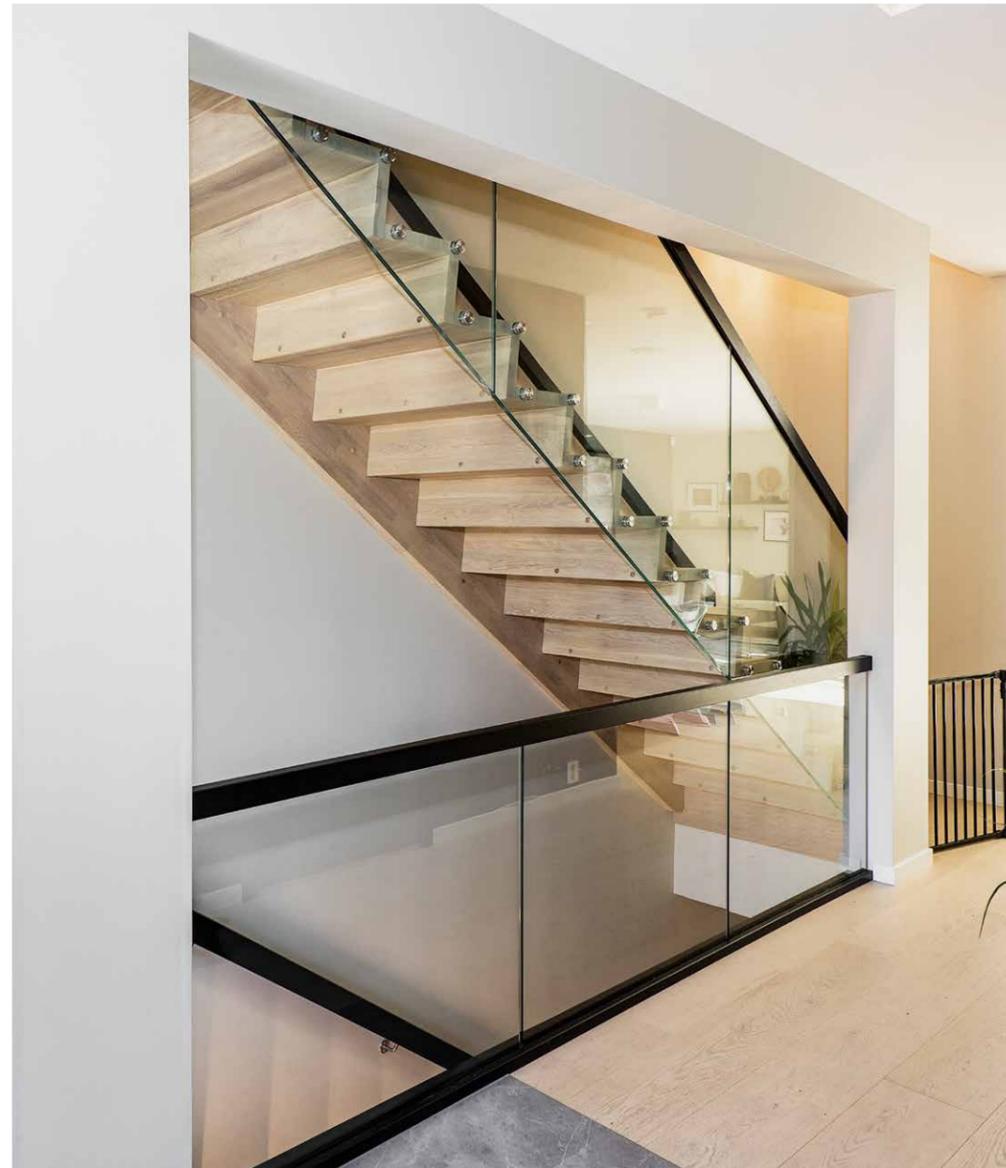
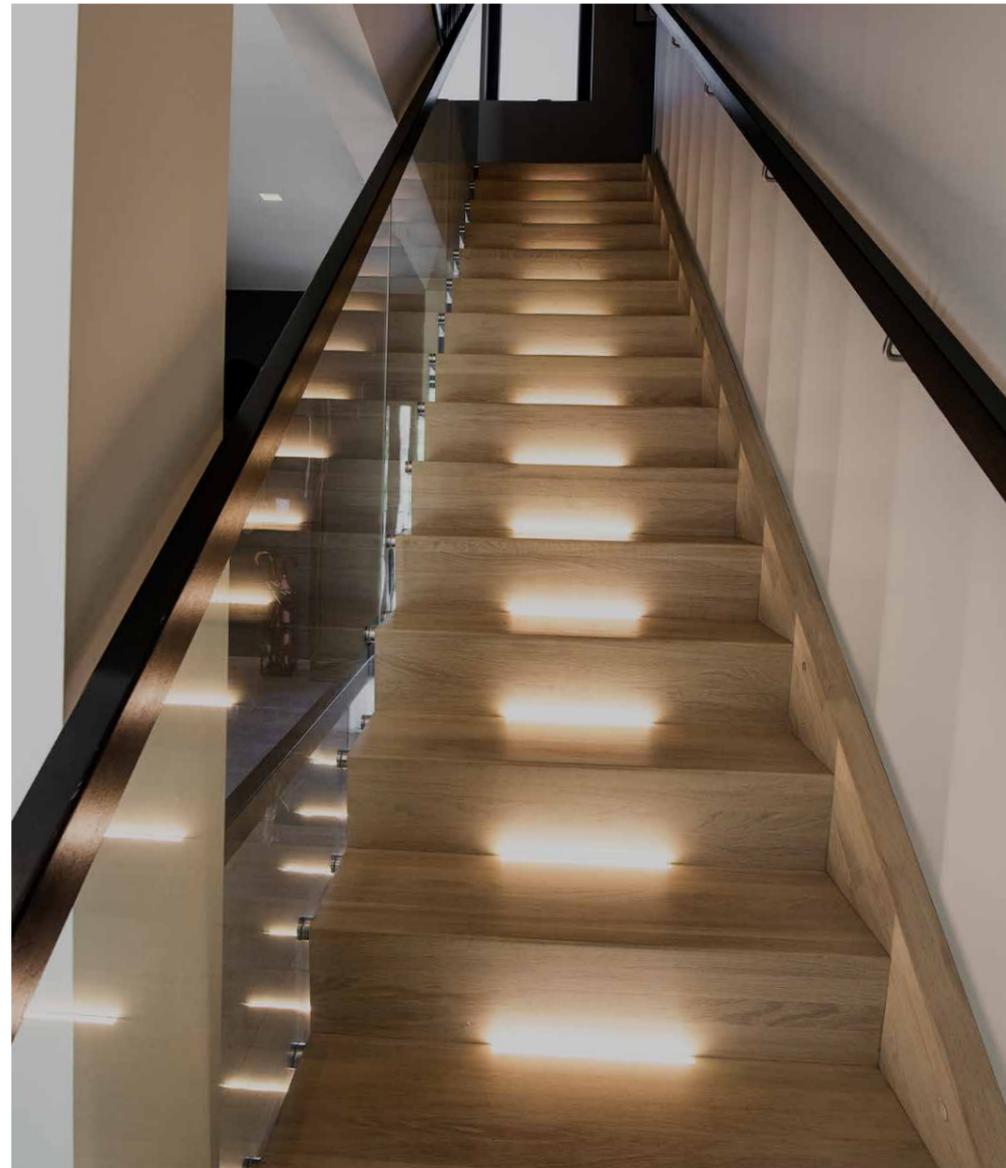
Option descriptions provided in page 68.

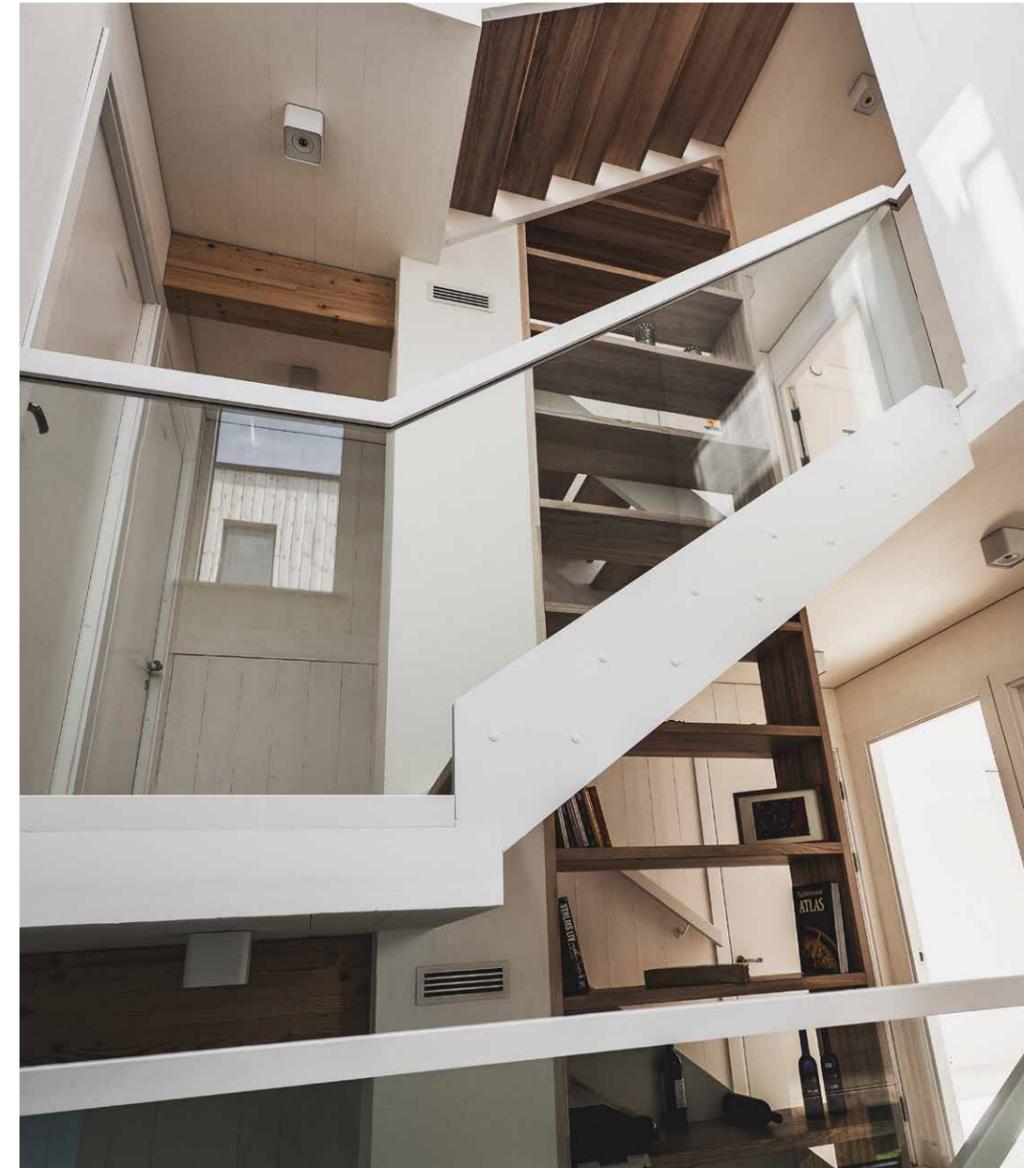
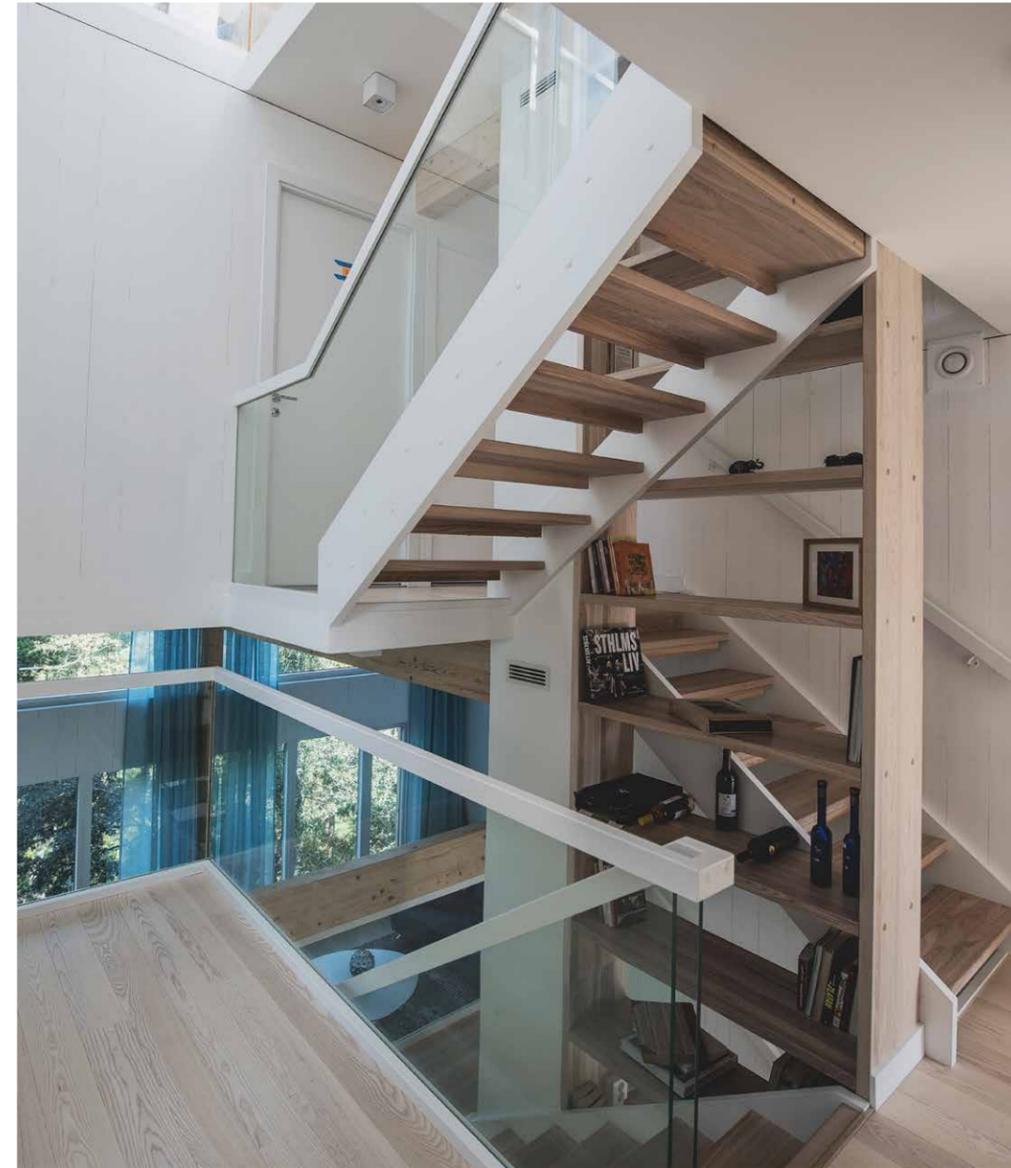


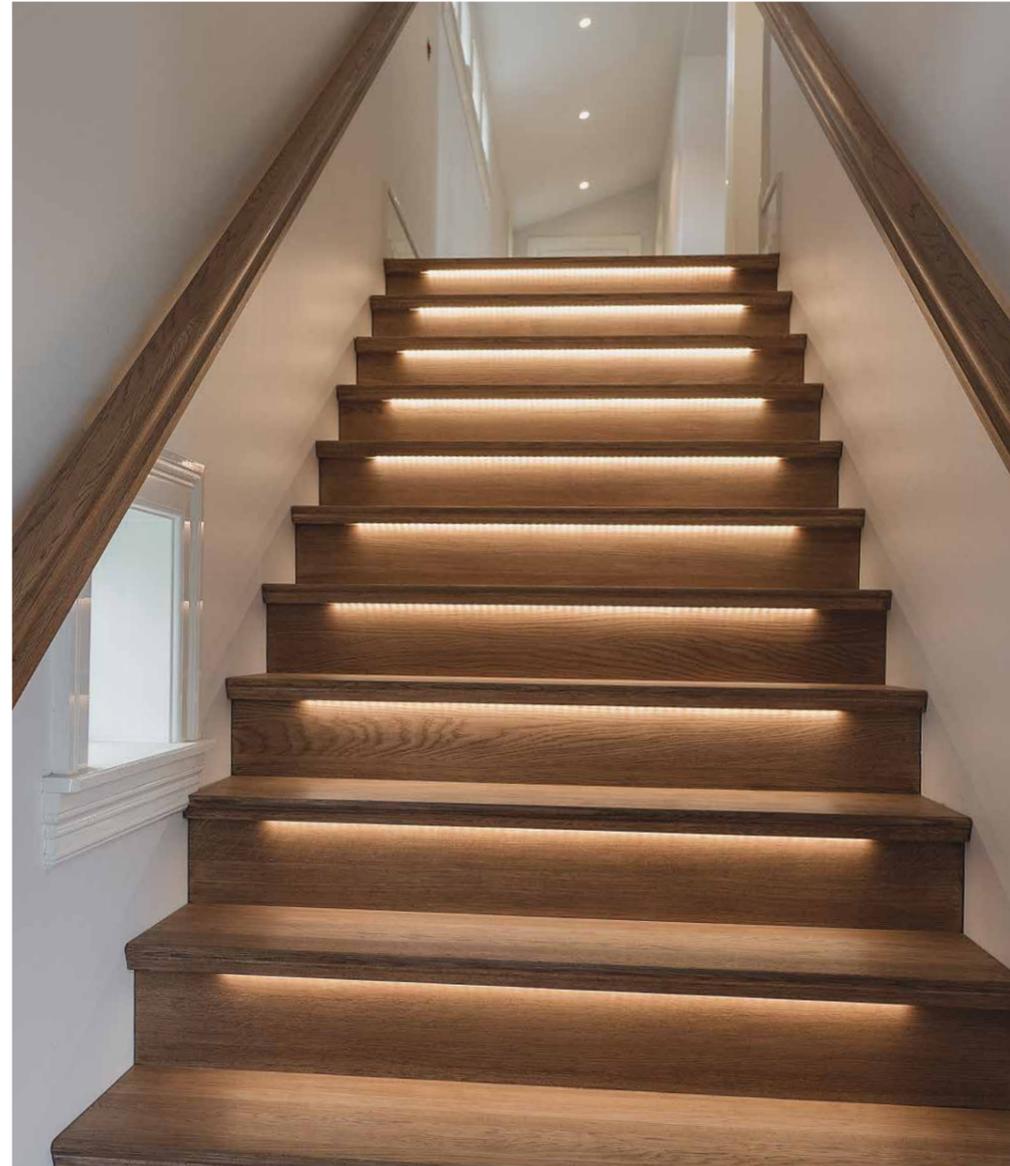
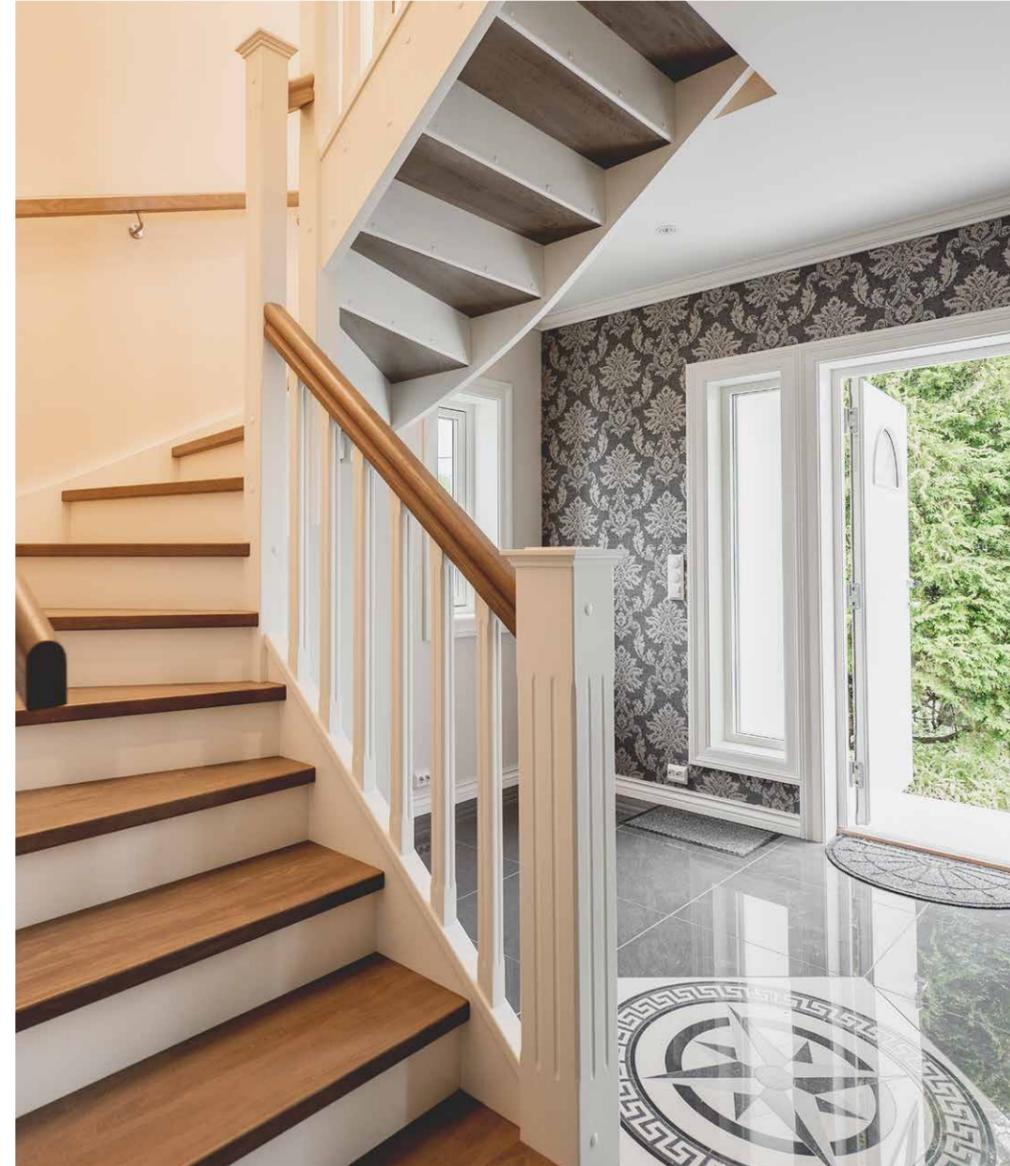
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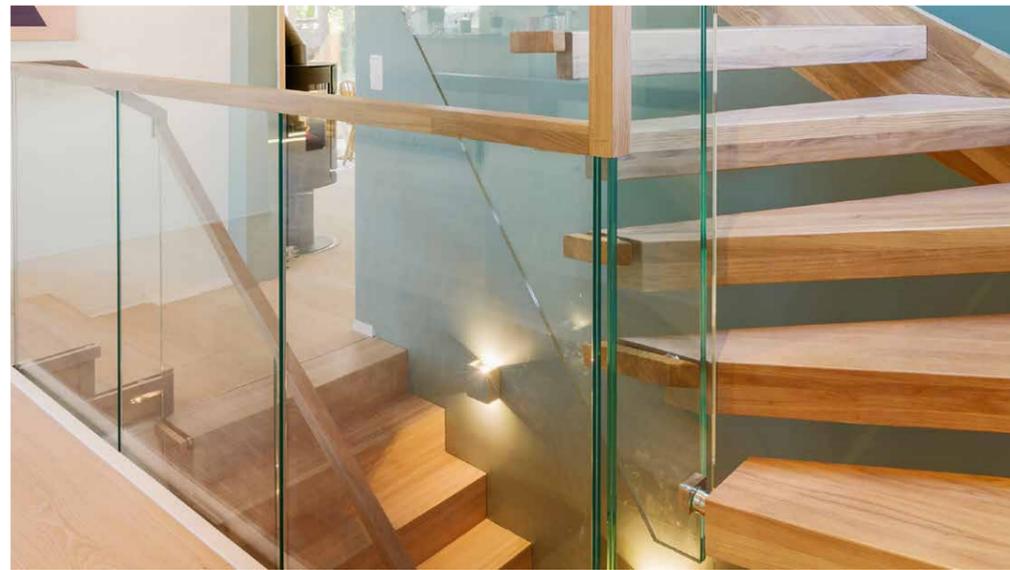
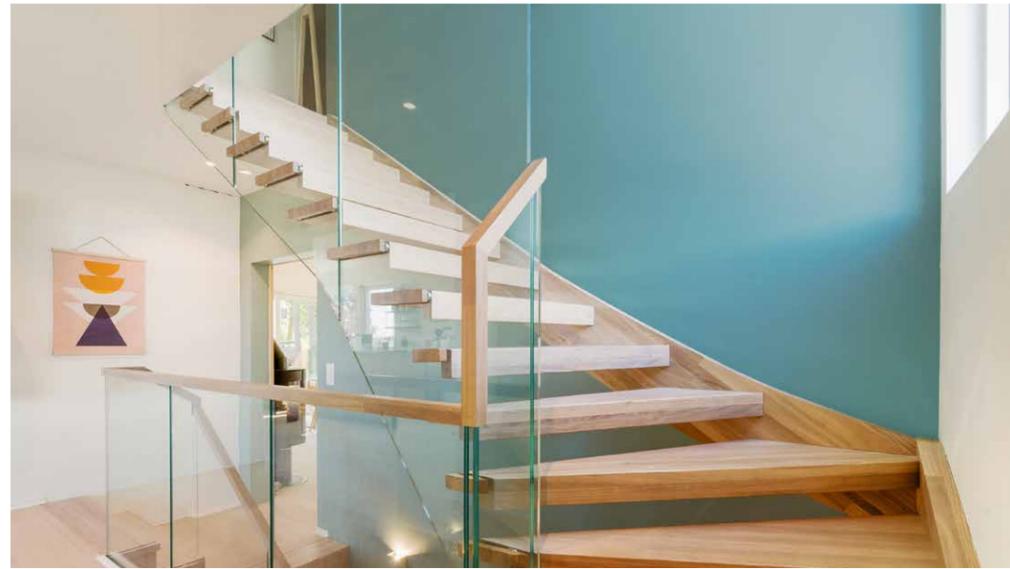
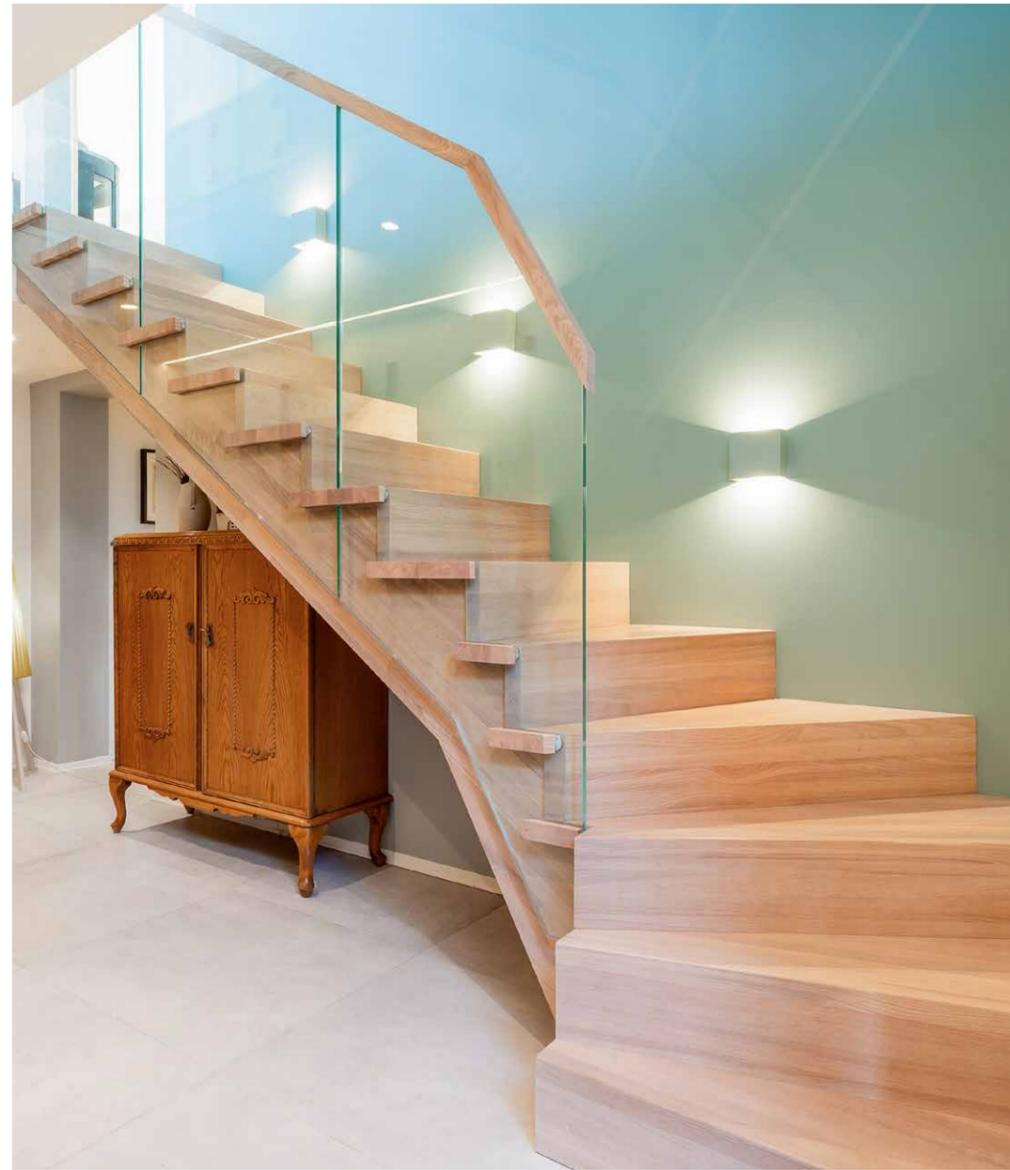
INSPIRATION

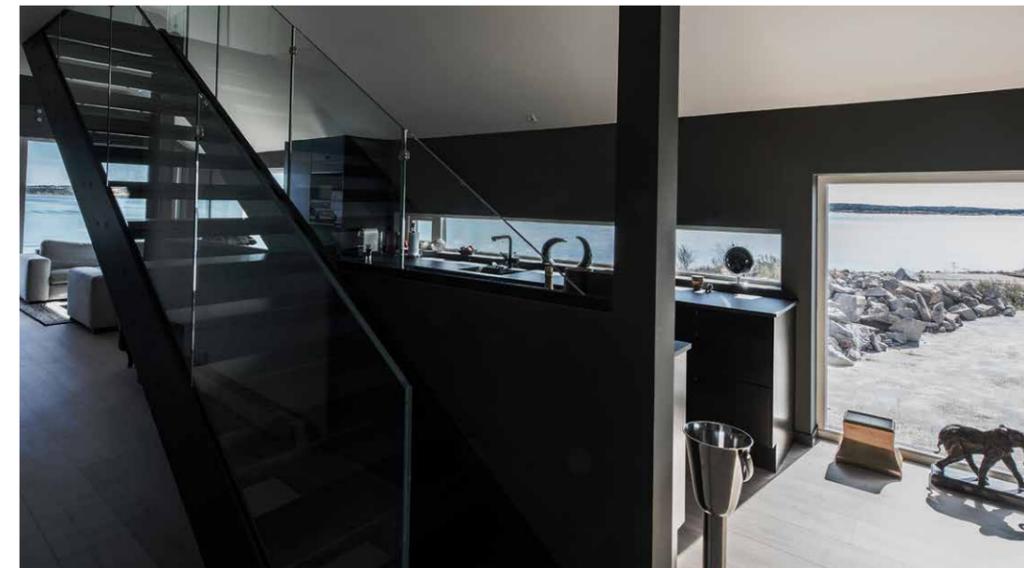
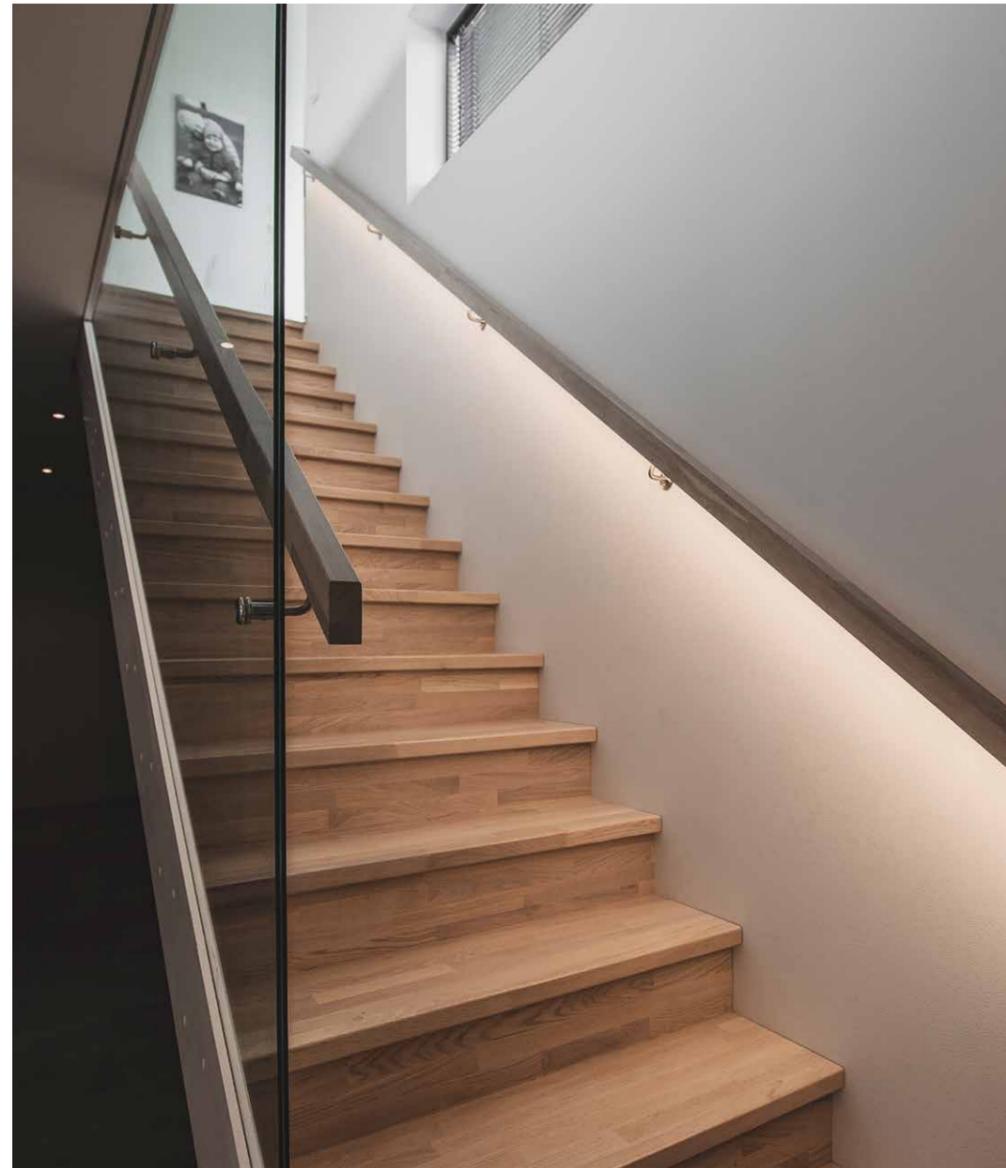


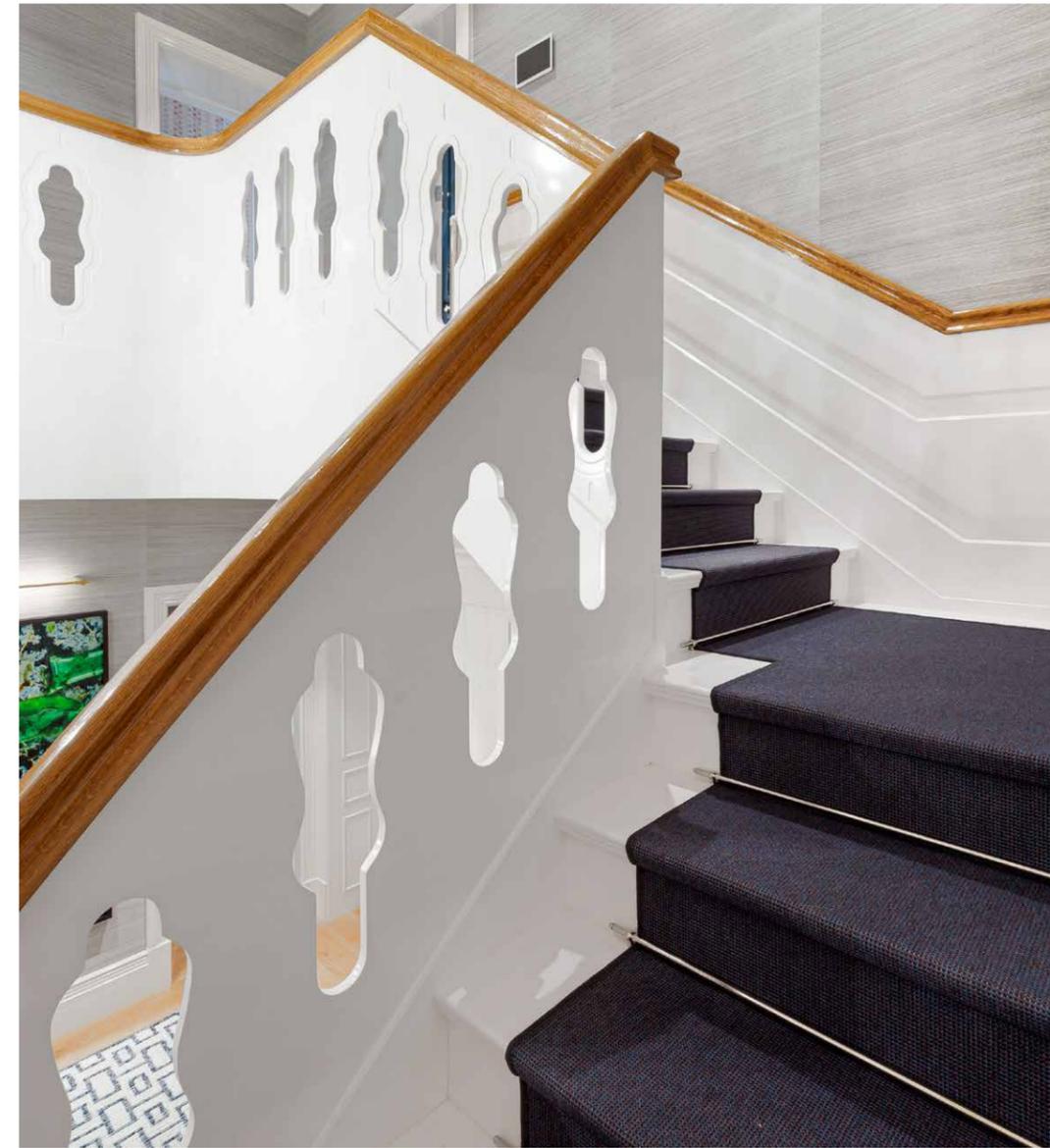


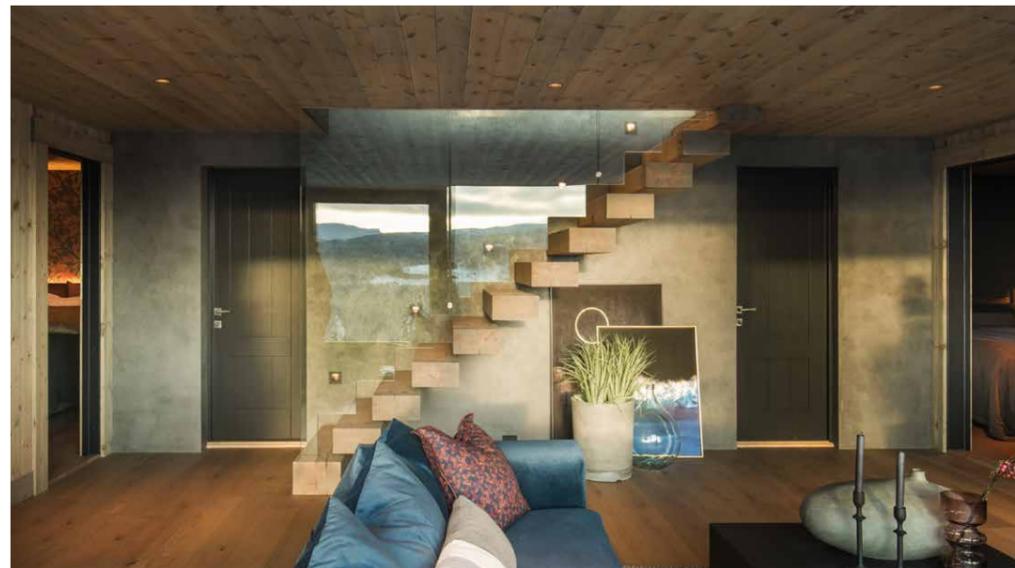
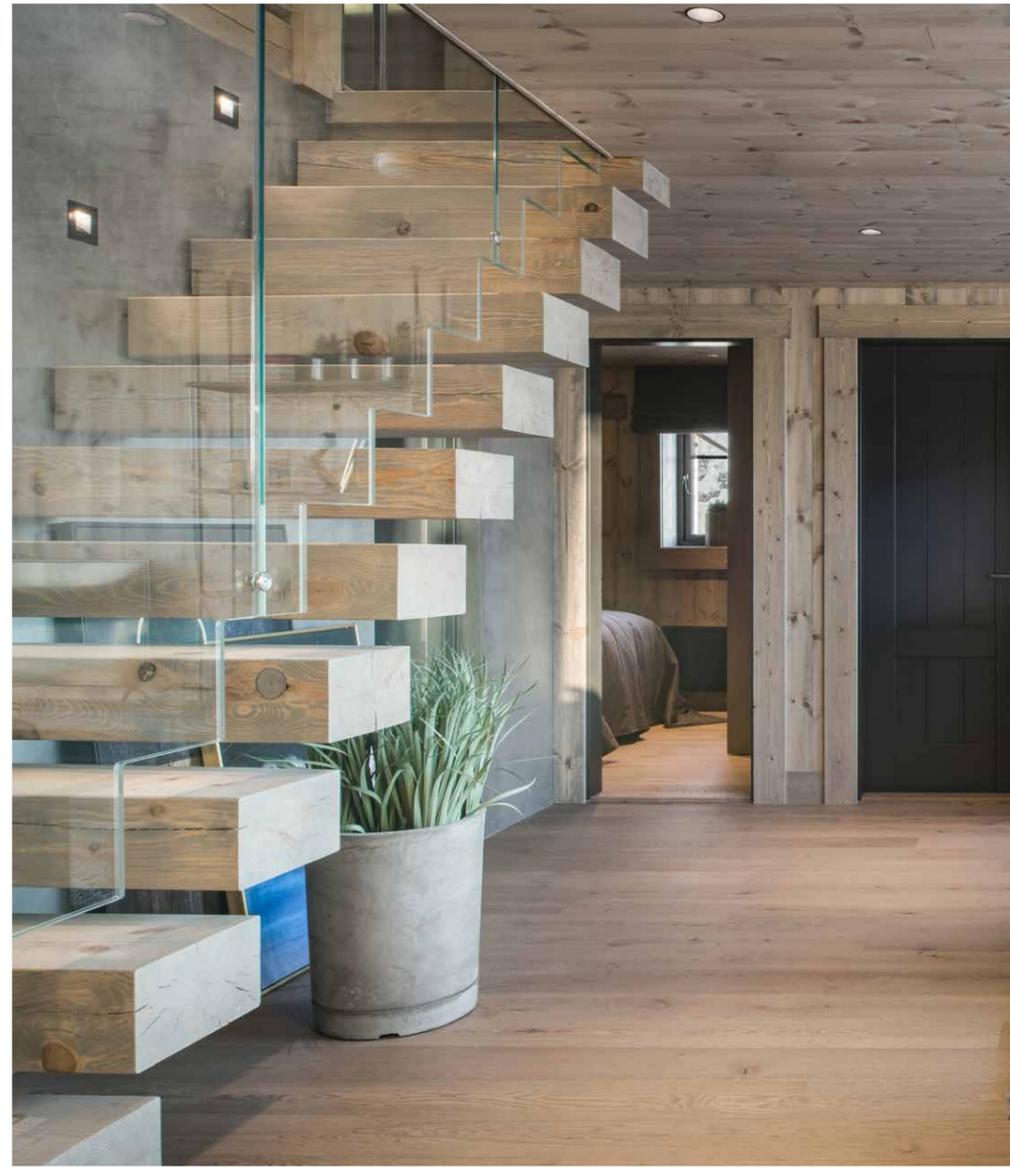
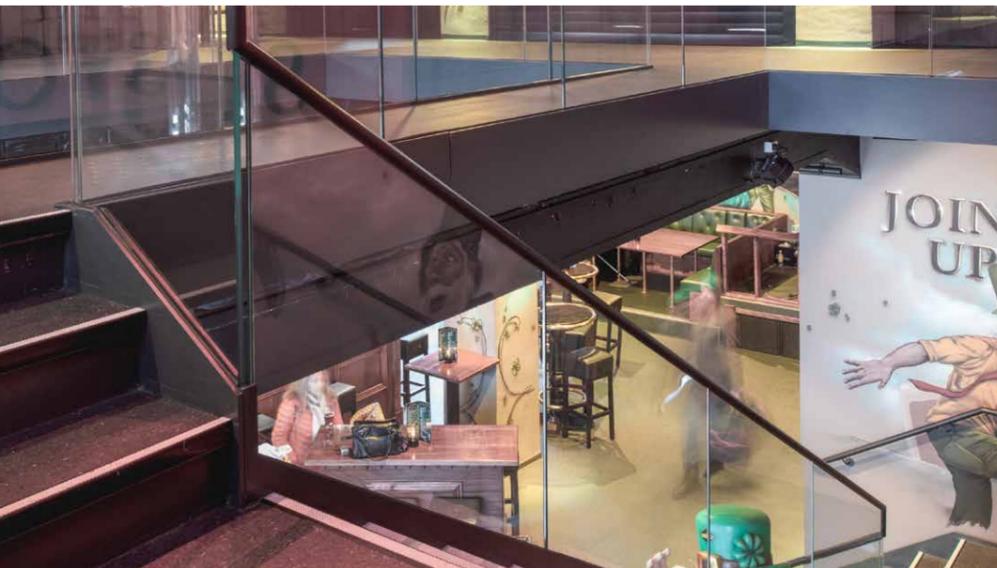
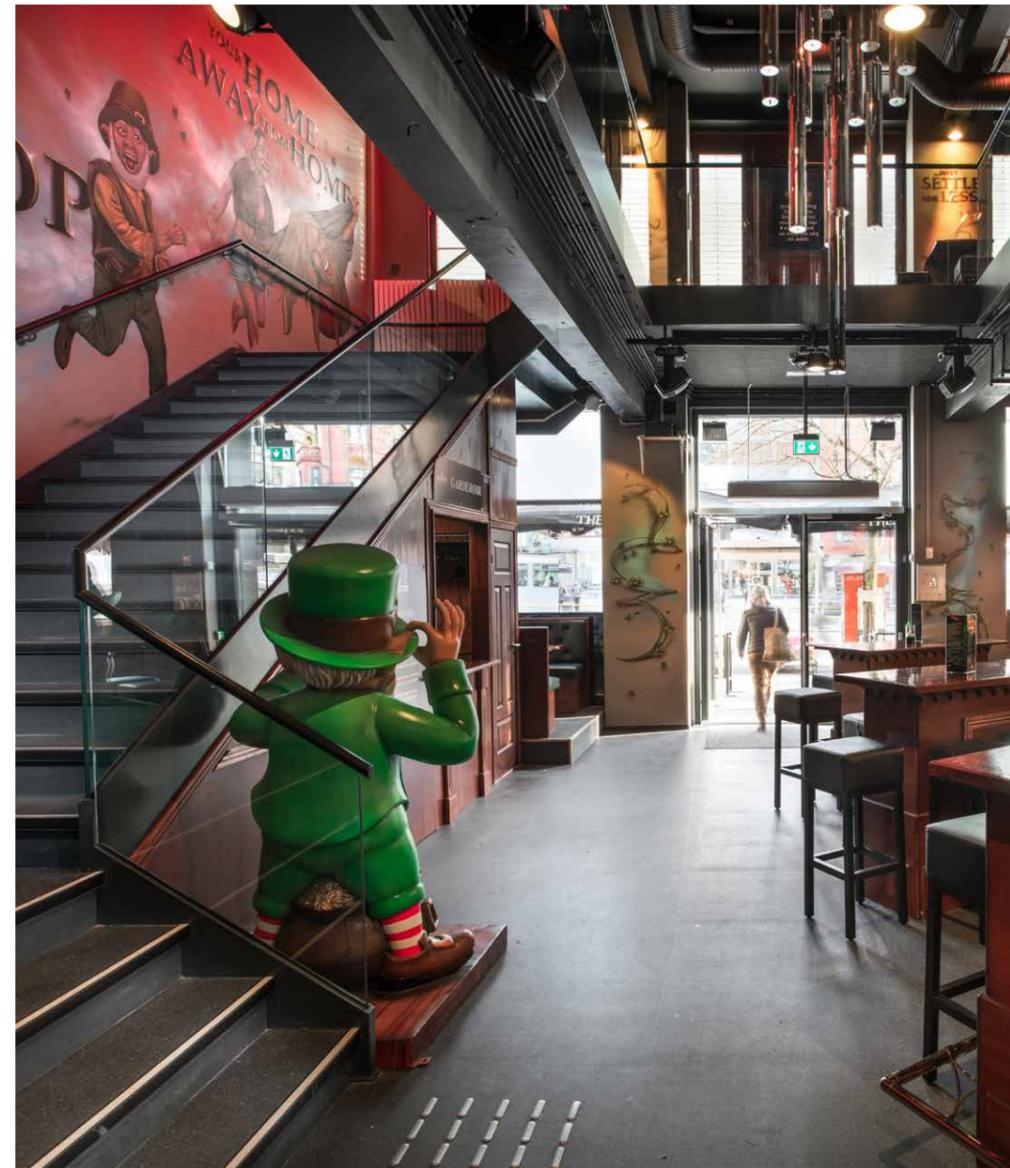


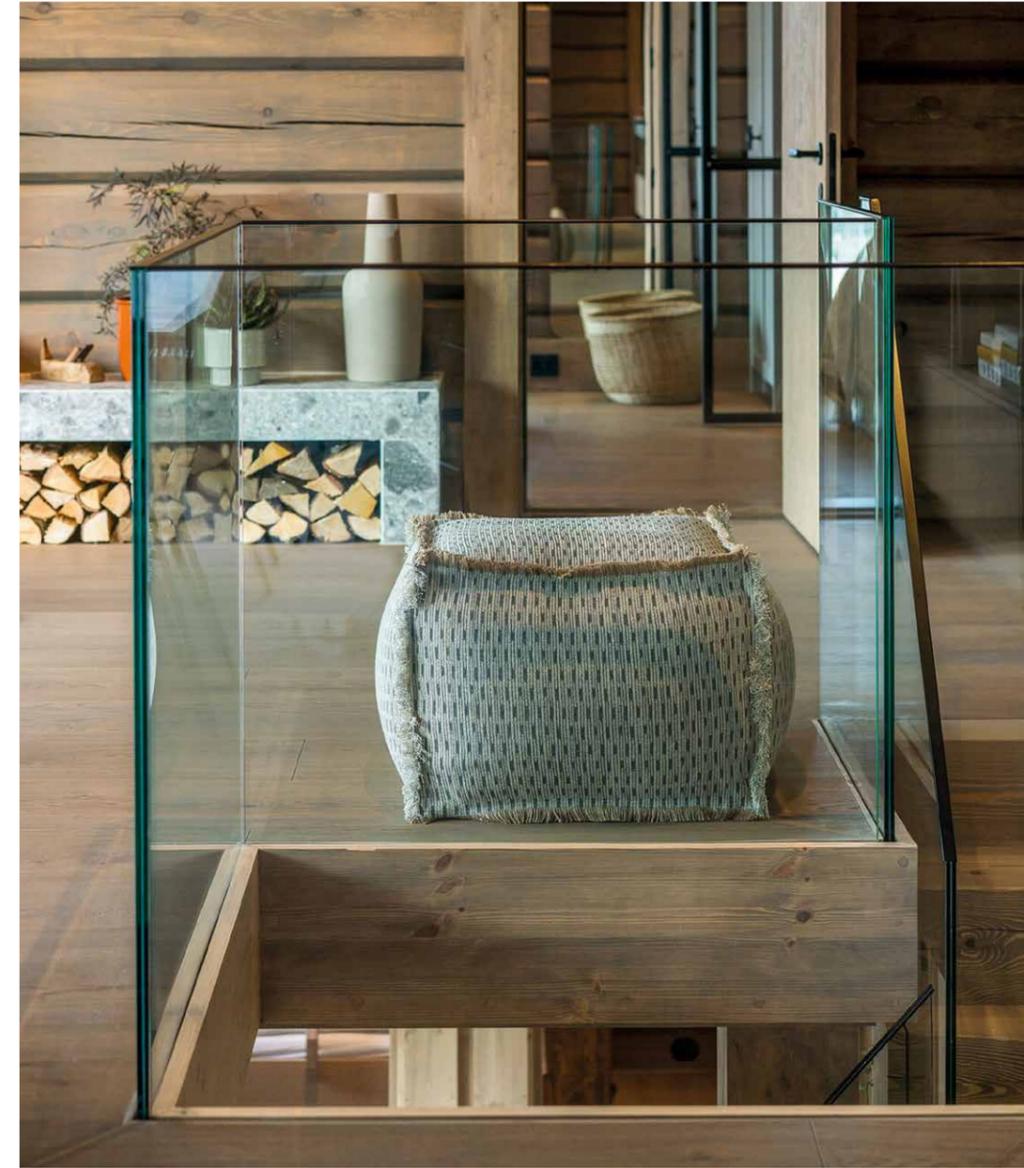
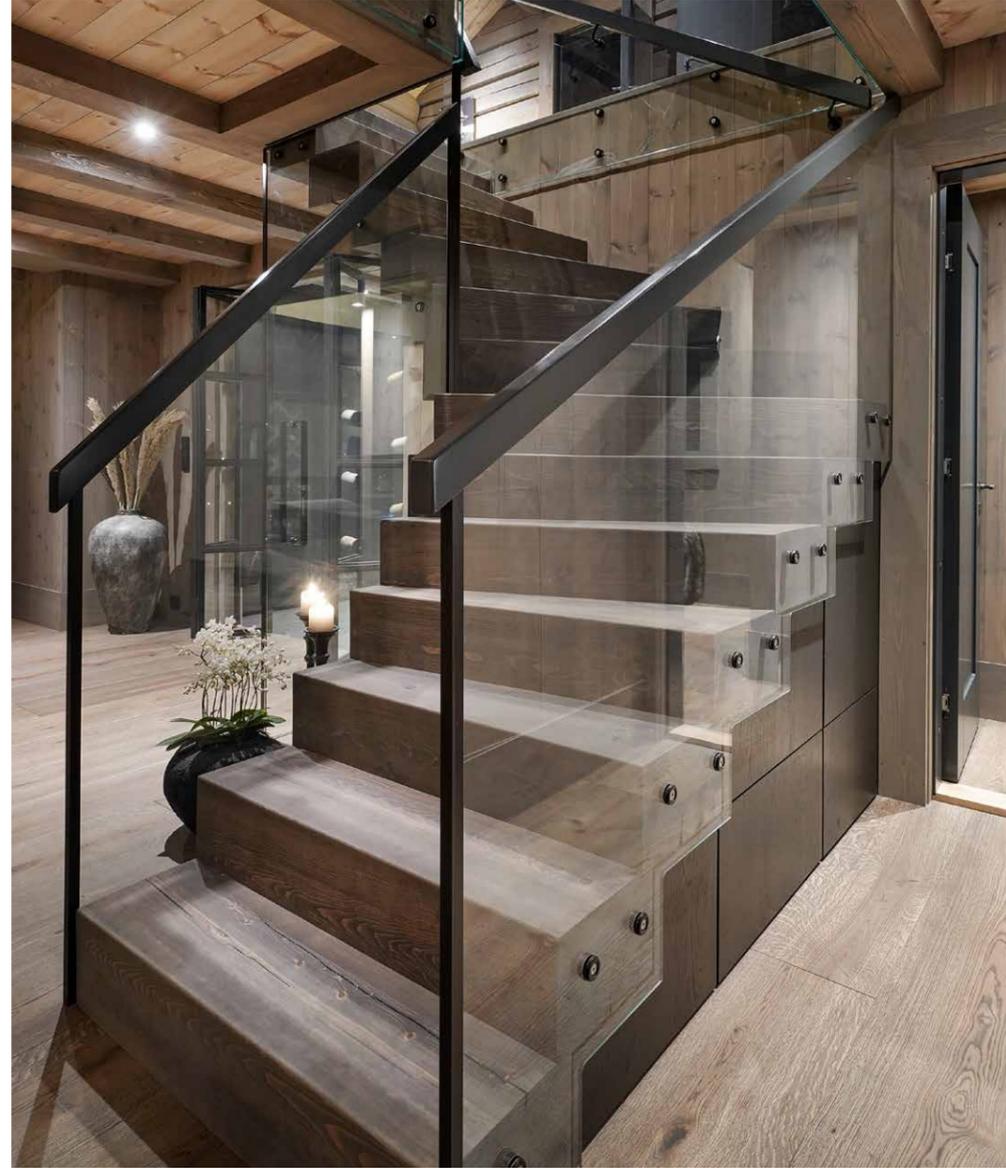


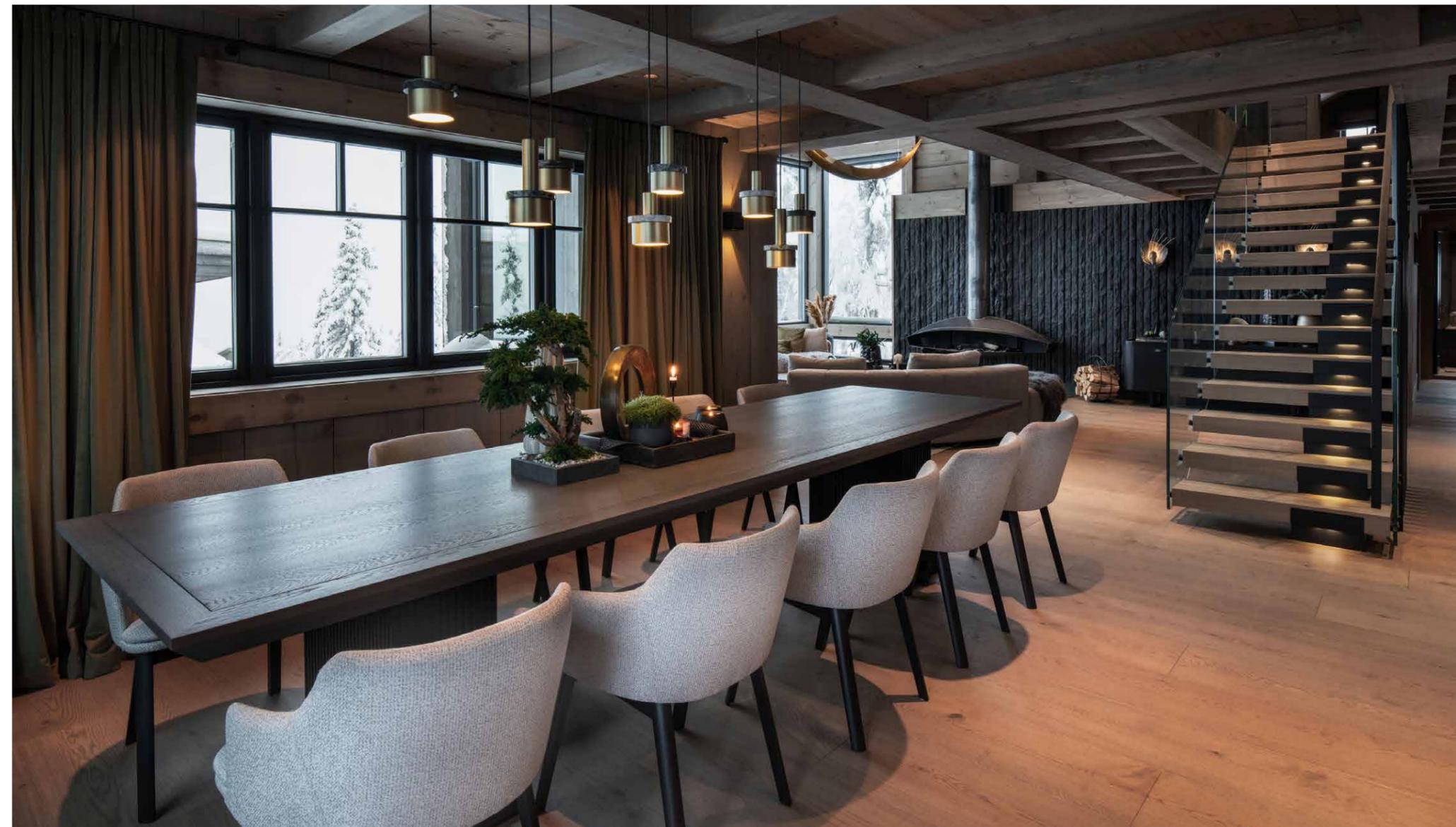
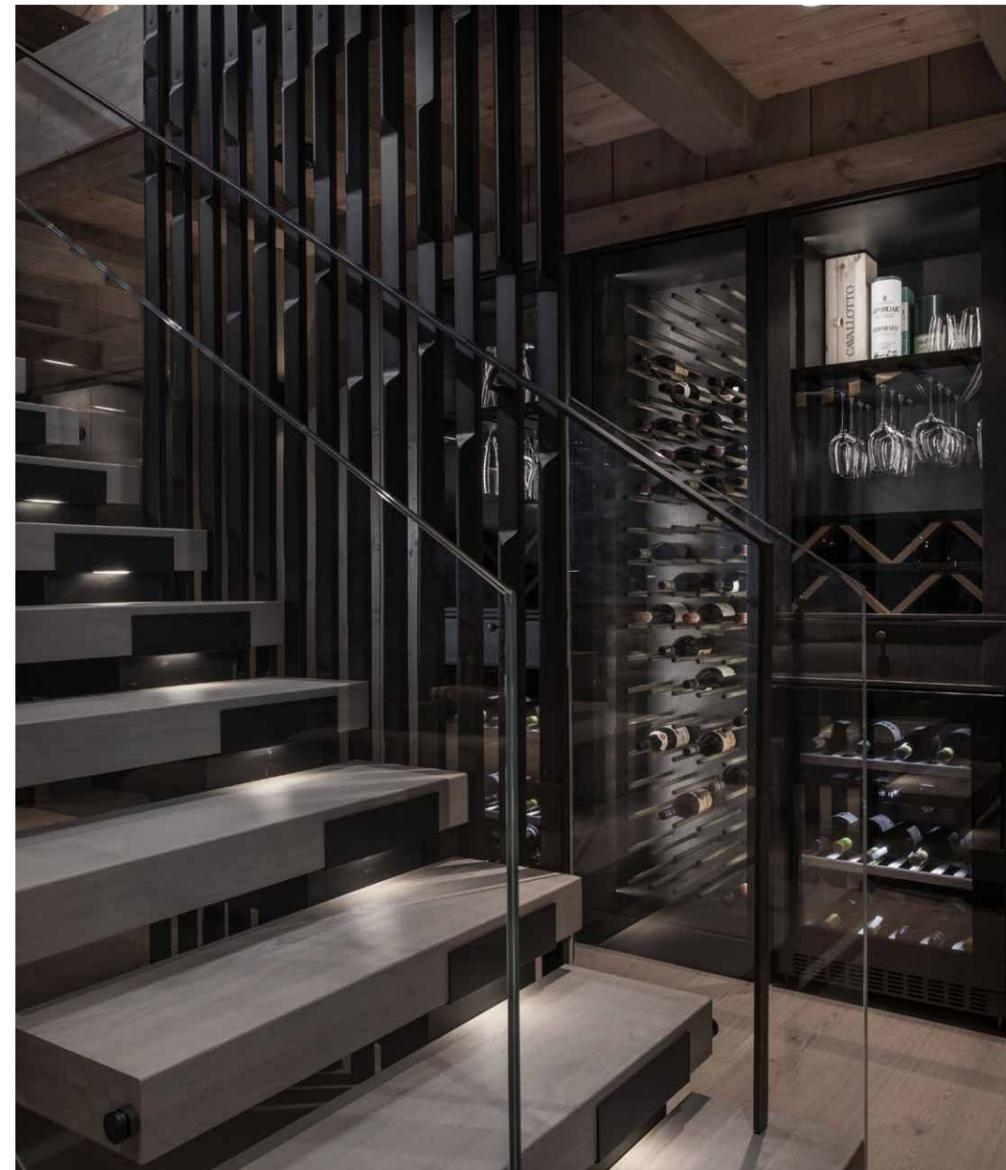


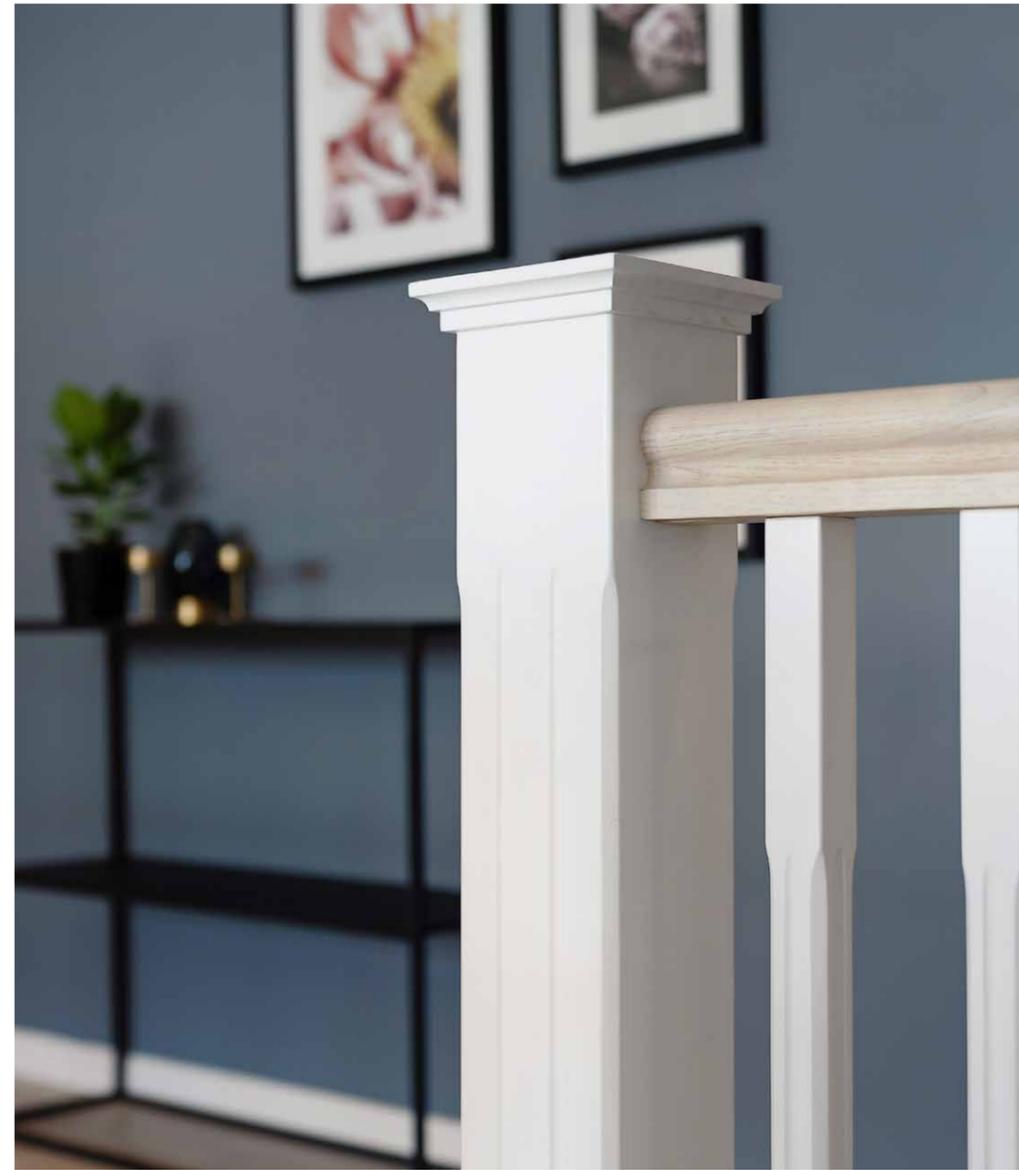
















LHM

STAIRS TECHNICAL INFORMATION

## WOOD TYPE

All wooden staircase parts are produced from the highest quality wood panels (A/B class). Factory ensures that all wood panels are delivered in accordance with strict requirements for wood humidity to reduce the risk of cracking. Each type of wood panel can be made in solid or finger joint (FJ) way.

What is the difference between solid and FJ? Solid hardwood planks are created from a single, thick piece of solid wood. A finger joint, also known as a comb joint, is a wood-working joint made by cutting a set of complementary, interlocking profiles in two pieces of wood, which are then glued. The greatest advantage of solid wood is that the wood is the same all the way through, so repairs are relatively easy. The two most important advantages of finger jointed lumber are straightness and dimensional stability.

### PINE



SOLID



FINGER JOINT

### ASH



SOLID



FINGER JOINT

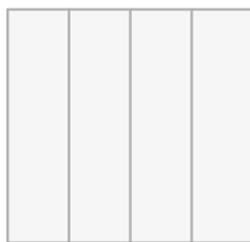
### OAK



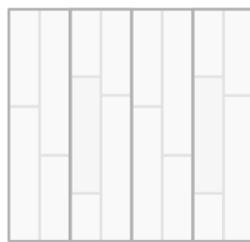
SOLID



FINGER JOINT



SOLID



FINGER JOINT

## COLORS

### SHERWIN WILLIAMS STAINS COLOR



NSL192-05402



NSL151-19301



NSL 190-00405



NSL190-01203



NSL190-01003



NSL192-07502



NSL151-11601

### RUBIO MONOCOAT OIL COLOR



SUPER WHITE



WHITE



GRIS BELGE



NATURAL



SMOKE



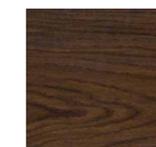
ASH GREY



BLACK



VANILLA



CHOCOLATE



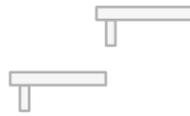
MUD LIGHT

We offer our clients the highest quality stains, paints, varnish or oil, all fully tested, and therefore all our wooden staircase parts are covered only by such well known brand products as Sherwin Williams or Rubio Monocoat. It is very important to understand that each type of wood has a different natural conditions and this will affect how the same colour will appear on different types of wood. Therefore, the colour samples above should be seen only as a basic presentation of colour possibilities. For a more comprehensive view of colours available, please contact with one of our official representatives and ask to view the full colour catalogue showing different types of wood. All painting processes are maintained at strict production standards. The stairs have no less than 2-3 layers of paint / varnish, depending on how well the wood attracts the color. Based on the client's requirements, we can deliver untreated staircases or simply cover it with Polyurethane Clear Top lacquer product by keeping a natural wood view and color.

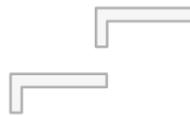
## OPTION DESCRIPTIONS

### STEPS

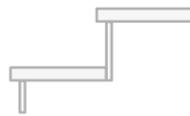
This is a portion of a stair which is comprised of the tread and riser, and permits ascending or descending one floor to another. Tread is a top horizontal part of a step on which foot is placed. Riser is a vertical part between two treads. Riser provides a support to the treads and ensures safety requirements according to TEK17 requirements. The usual thickness of treads is 39mm and the space between treads no less than 10mm in accordance with safety requirements. It is possible to have 80mm thickness treads without any additional riser or safety riser but to use this type of step, the rise should be maximum 180mm.



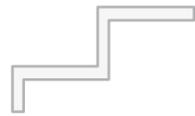
**SR39** – this type of step has a safety riser which is usually 40-80 mm height and 30 mm from step front. From step side edges – 50mm. Such steps shall be used for open treads style staircases to ensure safety requirements. Usually closed style string is recommended to use with such type of steps to cover different tread and riser dimensions from the sides.



**SR39L** – this type of step has L shape safety risers which are usually 40-80 mm height and 39mm thickness (the same as tread height). This type of step is used for open treads style staircase to ensure regulation in relation to safety. This is also a more exclusive option, as the steps look like massive 80mm steps in the front.



**R14** – this type of step has a riser which covers all space between treads. Thickness of the riser is 14mm, 30 mm from step front. Such steps are used in closed staircase solutions. Typically, closed bars are used for such steps to hide visible inequalities in the thickness of the steps and stumps from the side.



**R39** – this type of step has a riser which covers all space between treads. Width of this type of riser is 39mm (the same as tread height). This type of step is used for closed treads style staircase usually with open cut style string. Tread and riser dimensions are the same, therefore the sides of the staircases can be open.



**R39Z** – this type of step has a riser which cover all space between treads. The thickness of this type of riser is 39 mm. The riser goes approximately from 7-14o degrees by making a Z-shape if you look from the side. Both closed and open type string can be used for this solution.



**80mm** – these steps are massive and wooden, with a thickness is 80mm, i.e. two times thicker than usual steps. This type of steps are used for very exclusive staircase projects and can only be used when there is sufficient room space, as these steps require extra flexibility.

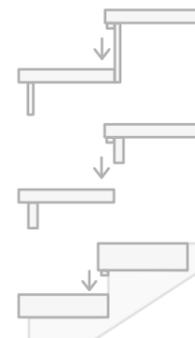
### LED LIGHTS

Based on the type of steps on each model we can propose LED lights to illuminate steps from top or bottom of the step. Also there is the option to set LED lights in wooden handrails. Colours: warm white and neutral white.



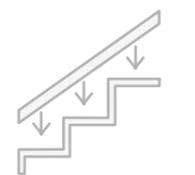
#### LED LIGHTS FROM BOTTOM

This type of LED is designed to be compatible for use only with R39 or Z type steps. The strip bar is integrated on the upper side of the step, close to the step. We do not recommend having the LED bar length in the entire width of the step as it can create an uncomfortable dazzling light when walking on the stairs.



#### LED LIGHTS FROM TOP

Due to design this type of LED is designed to be compatible for use only with SR39, R14 or 80mm type steps. The LED bar is milled on the bottom of falling out part of tread. We do not recommend having the LED bar length along the full length or the entire width of the step as it can create an uncomfortable dazzling light when walking on the stairs.

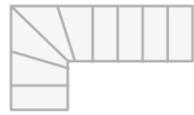


#### LED LIGHTS IN WALL HANDRAIL

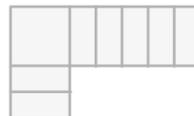
This type of LED is most compatible with wooden handrails with minimum size of 40x60mm. Handrails can be illuminated by LED lights in almost all cases where an appropriate electricity connection is installed.

**SHAPES**

Different types of staircases provide specific kinds of visual appeal and take up varying amounts of space in your home. When choosing the shape of the staircase, the following aspects should be taken into account: space availability, intensity of usage, convenience and safety.



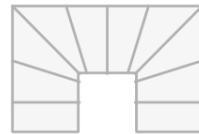
**L-SHAPE** – a staircase that turns by 90 degrees either in the middle or closer to one end or the other. The landing is substituted by “pie-shaped” steps. Since there is no intermediate landing, L-shape stairs are used when the space is not sufficient for a staircase with a landing. Such stairs are more visually appealing, tend to take up less space and can be used in the corner of a room.



**L-SHAPE WITH LANDING** – these staircases can be defined as two mutually perpendicular flights of stairs that are connected by a landing in between and turning by 90 degrees either in the middle or closer to one end or the other. Such stairs are more visually appealing and can be used in the corner of a room. They are also easier to navigate due to the wider landing that breaks up the flight of stairs.



**I-SHAPE** – a straight staircase can be defined as a single, straight flight of stairs that connects two levels or floors in a building. The straight flight staircase is feasible only if there is enough space to join two levels by an imaginary straight line.



**U-SHAPE** – staircase that turns by 180 degrees, while the landing is substituted by “pie-shaped” steps. Since there is no intermediate landing, U-shape stairs are used when the space is not sufficient for staircases with landing. Such stairs are more visually appealing and also tend to take up less space.



**U-SHAPE WITH LANDING** – these staircases turn by 180 degrees and can be defined as two parallel flights of stairs connected by a landing in between. Easier to navigate due to the wider landing that breaks up the flight of stairs.

**HANDRAILS**

We propose two main types of handrail - wooden and metal. Wooden handrails can be selected from 5 different models. Based on Norwegian safety requirements hand-rail shall be assembled on both sides of staircase.



**WOODEN R20 STANDARD**  
40x60



**WOODEN R5 ULTRA LIGHT**  
40x60



**WOODEN R5 STANDARD**  
40x40



**WOODEN OMEGA LIGHT**  
40x60



**WOODEN OMEGA MASSIV**  
70x70



**METALL STANDARD**  
Wall Handrail  
40x10



**METALL STANDARD**  
Glass Fence Handrail  
(measurements according to  
glass thickness)

## GUARANTEES

All our staircases are produced and assembled by the United Kingdom regulations and safety requirements. With our computerised manufacturing system, carefully selected wood, modern storage conditions and qualified personnel, we can maintain the highest quality production and ensure a 5-year guarantee period for all our products. Our professional guarantee service and consultation is free of charge within the guarantee period in case of production defects. Guarantee terms and conditions are not applicable for mechanical damages caused by the client when the use of the staircase does not comply with manufacturer's requirements. Natural product wear and tear are not the subject of guarantee service.

## TERMS OF USAGE AND SUPERVISING SERVICES

In order to ensure longevity of your staircase and retain the right to manufacturer's guarantee service in case of production defects, you must comply with the following conditions:

- Stairs are for inside use only.
- Do not touch any stair part with sharp edges.
- Do not flood the stairs with any liquid.
- Do not walk on the stairs with wet outdoor boots.
- Regulate humidity in the rooms. It is recommended to maintain an optimum microclimate home with 50-60% relative humidity and 18 to 22 C degrees room temperature. Do not forget to ventilate. If the room humidity is lower than the recommended facilities, use humidifiers to maintain the required moisture.
- The screws should be tightened regularly after a period of use. Remove the wooden plug that covers the screw, use the Torx-30 bits and tighten the screw.
- Regular cleaning is recommended.
- Cleaning of oiled stairs must be done with as dry methods as much as possible.
- Clean glass in the same way you clean your windows. Feel free to use spray products, lukewarm water, squeegee, newsprint paper, vinegar water etc.
- Steel cleaning is sold in most appliance stores. Follow the product instructions.
- Always carefully read the documentation issued after staircase delivery and/or assembly works are completed.

Based on separate agreement according to client's requirements, we can take measurements at your home and provide not a detailed staircase drawing along with a 3D visualisation. This will help to make design decisions as well as solve any technical issues. We can organize transportation of your staircase directly to your house or any other place. As staircases are produced by computerized system, it is not difficult to assemble it by yourself, and we will provide you with detailed assembly instructions to make it easier.

We strongly recommend to contact us for professional advice about your options for selected models to ensure the staircase will meet design and safety requirements. If you have ideas which are not shown in our catalogue, feel free to contact and we will help you fulfil your design vision, whether it is for an inside staircase in a home or log house, or for outside or commercial premises.



[www.lhmstep.com](http://www.lhmstep.com)

**SALES**

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