



LAUTEX®

QUALITY CEILINGS FOR QUALITY CUSTOMERS

LAUTEX: Company info

Oy Lautex Ab is a specialized manufacturing company of suspended metal ceilings for the construction and shipbuilding industries. Lautex also acts as a subcontractor for other industry.

Our wide range of products meets the requirements of the most demanding customers. We provide ceiling panels, profiles, cassettes and grating ceilings as complete systems including suspension materials. In addition, we manufacture custom made ceilings in accordance with the customers' wishes.

Lautex design include special carrier systems, mouldings, air conditioning and loudspeaker fixtures, as well as service hatches for the different ceiling types. We have also a variety of panel shapes to choose from. Many alternative methods

of surface finishing result in improved and vivid interiors. The products are painted in our own painting shop in colours of all well known colour charts.

Lautex can provide engineering and consulting services for our customers in order to create the most feasible solutions of the ceilings. Lautex is certified according to the ISO 9001 quality system.

Our factory is equipped with modern and versatile machines to meet the requirements of thin sheet production. Our professional expertise, high quality products and customer -oriented service have ensured Lautex a position among the leading manufacturers of metal ceilings worldwide.

LAUTEX- suspended Ceilings

Use

Lautex - ceilings are suitable for both indoor- and outdoor use. Outdoors the weather conditions and humidity has to be taken into consideration. The use of the products has to be mentioned when placing the order.

Lautex - ceilings are used in public buildings like shopping centres, schools, offices, banks, restaurants, swimming halls etc.

In the marine sector products are used for example in cabins, corridors, offices, restaurants, theatres, shops, casinos and stairs.



TM-600 Cassette

Materials

The main materials used in products are steel and aluminium. Other materials, like stainless steel and brass, are also used. Lautex production and machinery is designed to manufacture the most demanding thin sheet products. The products are made mainly by metal band processing, sheet metal machining, rolling etc. thin sheet production. The surface finishing is carried out mainly by bake painting. Other finishing methods are also possible, like anodising, PVC-coating, printing etc.

Product features

Lautex products are incombustible, non-poisonous, hygienic and light. The products designed for the marine industry use have been tested and certified according to fire classes C, B-0 and B-15. Lautex fire rated ceilings fulfil IMO standards for fire safety. Products have type approval (EC MED / Lloyds Register of Shipping) and they fulfil standards both in Europe and internationally.

The acoustic performance of Lautex suspended metal ceilings can be improved by perforation and by adding sound absorbing material like acoustic felt or mineral wool into the reverse side of the product.

The wide range of surface finishing guarantees the resistance against the air humidity. The carriers of the suspension systems are zink-coated or painted. The surface materials are either bake painted, PVC-coated or anodised.

Engineering

We plan and develop different kinds of suspended ceiling solutions according to the needs of our customers both for construction and shipbuilding industry. More detailed information You can get from our technical sales department or internet sites www.lautex.com



KMRT-100 Panel

Installation

Every LAUTEX product has been developed keeping in mind the fact that installation of the product must be easy and fast. The suspension systems used are based on the specific product. Installation systems include all needed parts from the suspension carriers to the visible surface. Technical equipment installed above the suspended ceiling can be easily reached for service.

Maintenance

LAUTEX metal ceilings are easy cleanable and almost maintenance-free. When needed, they can be cleaned by using a soft cotton cloth moistened with mild soap based detergent or neutral household cleaner (ph 7).

The products are packed in the right way so that they remain undamaged during the stocking and transportation. Lautex takes care of the special wishes of the customers.

LAUTEX Panel Ceilings

The airspace above a suspended Lautex panel ceiling is totally encapsulated. The suspended ceiling is a closed construction and consequently, dust cannot collect above the ceiling. Particularly airtight constructions are required in the ceilings of kitchens and hospitals, as well as in the food industry and other hygienic premises. Lautex Siliprofil, sealed panel ceilings are best suited for these purposes. Technical equipment installed above the suspended ceiling is covered by the panels and consequently, the intermediate floors that remain concealed will need no surface finishing. The free air conditioning can be achieved by using LAUTEX ceilings together with properly dimensioned air gaps or suitable perforation in the ceiling surface.

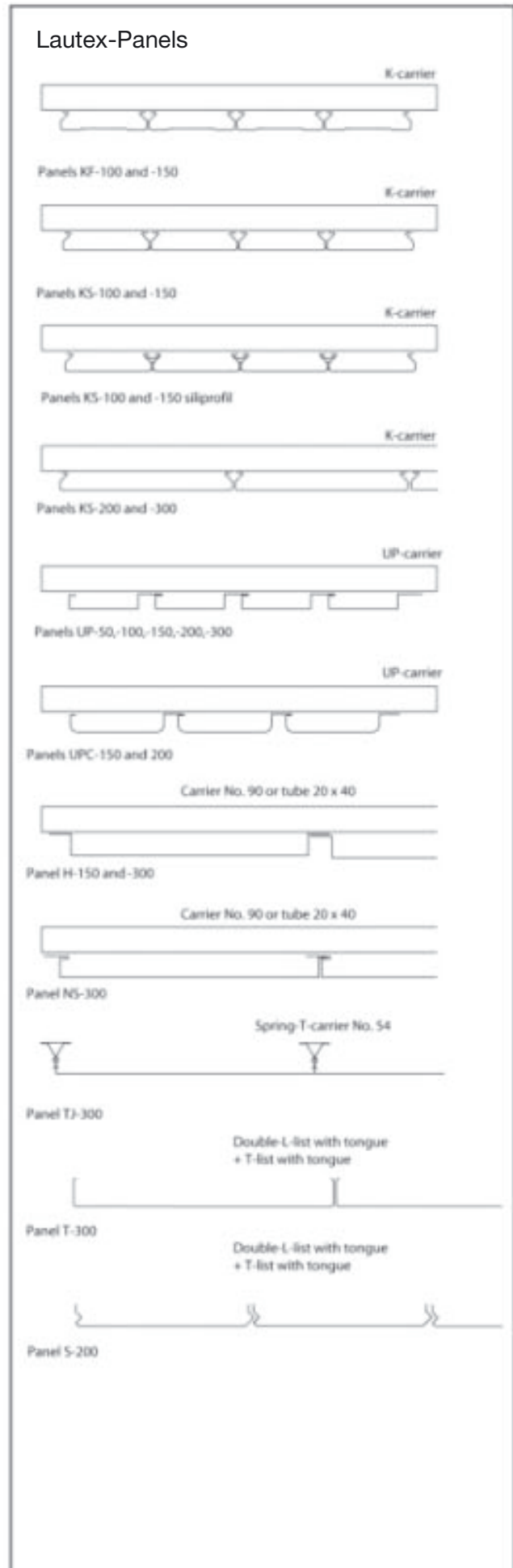


SMRT-200 Panel

- Panel widths 50–300 mm.
- Made of aluminium or steel.
- The panels can be perforated for acoustic or air conditioning purposes.
- Acoustic filling by felt or wool encapsulated in plastic.
- All panel types are designed with suspension systems, edge mouldings, loudspeaker and air conditioning panels, as well as Service hatches
- The products can be painted in colours chosen from all well-known colour charts.
- Alternative surface treatment methods include plastic coated steel and anodising.
- The ceilings are dust-proof and easy to clean.
- Marine side ceilings are classified according to classes C-, B-0 and B-15.
- Custom built solutions are also possible.



UPRT-100 Panel



LAUTEX Profile Ceilings

Lautex Profile Ceilings are designed with air gaps. The width of the gap between the profiles can be adjusted to the customer's choice. There is a wide variety of shapes of Lautex profiles, and the profiles can be painted or coated with many different colour shades. Shaping of the profiles provides the opportunity to design more vivid interiors. The profile ceiling is easy to open for service. Like metal ceilings in general, profile ceilings are also easy to clean.

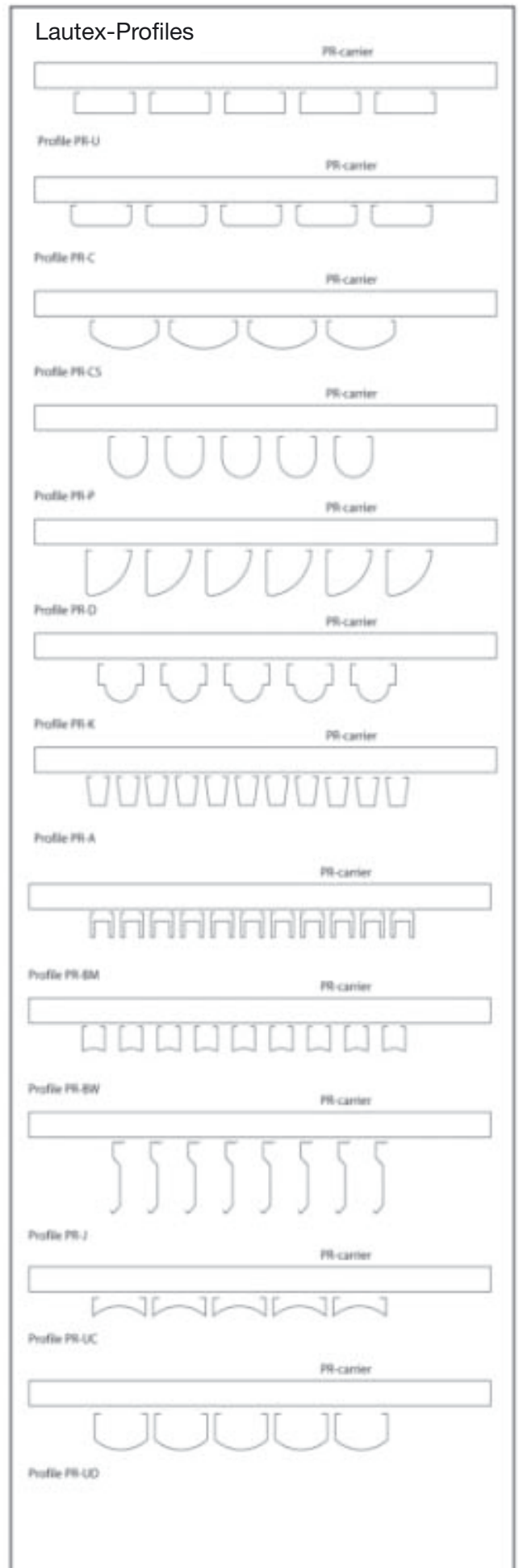


PR-W Profile

- Profile widths 30–300 mm, heights 20–57 mm
- Made of aluminium or steel.
- The profiles can be perforated for acoustic or air conditioning purposes.
- Acoustic filling by felt or wool encapsulated in plastic
- All profile types are designed with suspension systems, edge mouldings, loudspeaker and air conditioning panels, as well as service hatches.
- The products can be painted in colours chosen from all well-known colour charts.
- Alternative surface treatment methods include anodising.
- The ceilings are easy to clean.
- Custom built solutions are also possible.



PR-P Profile



LAUTEX Cassette Ceilings

Lautex cassette ceilings are built in modular-sized cassettes. The most common used size is 600 x 600 mm, but because Lautex uses the latest manufacturing technology, customers can choose almost any size of cassette. This makes it possible to manufacture, for example, cassettes for corridors in one piece. Furthermore, the cassettes can be perforated in accordance with the customer's wishes. Ceilings made with T-suspension systems are particularly easy to open. During the building work, the ceilings can be kept open longer because the cassettes are quickly installed in a readymade suspension system. Access holes can be made in the cassettes in the factory. Technical equipment installed above the suspended ceiling can be easily reached for service.

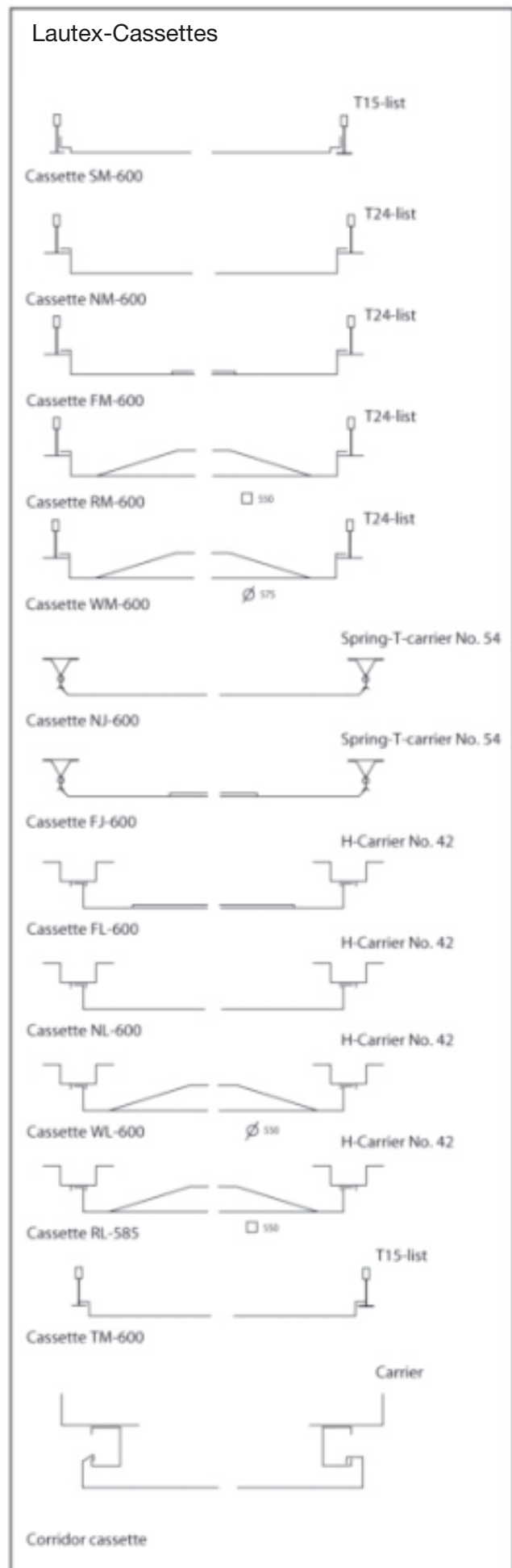


Corridor Cassette, easy access type

- Module size 600 x 600 mm or optional
- Made of aluminium or steel.
- The cassettes can be perforated for acoustic or air conditioning purposes.
- Acoustic filling by felt or wool encapsulated in plastic.
- All cassette types are designed with suspension systems, edge mouldings, loudspeaker, air conditioning and lighting fixtures, as well as service hatches.
- The products can be painted in colours chosen from all well-known colour charts.
- Alternative surface treatment methods include anodising are available.
- The ceilings are easy to clean.
- Custom designed solutions are available.



NL-600 Cassette, wood imitation, custom perforation.



LAUTEX Grating Ceilings

All of the airspace above a Lautex suspended ceiling can be utilised. Openings for exhaust and supply air, as well as anemostats and sprinklers can be concealed above the grating ceiling. Gratings with large loops provide an inexpensive method for improving interiors. Gratings installed in T-suspension systems are easy to open, thus facilitating service and maintenance work. Lighting fixtures and other materials can also be installed in the same suspension system.

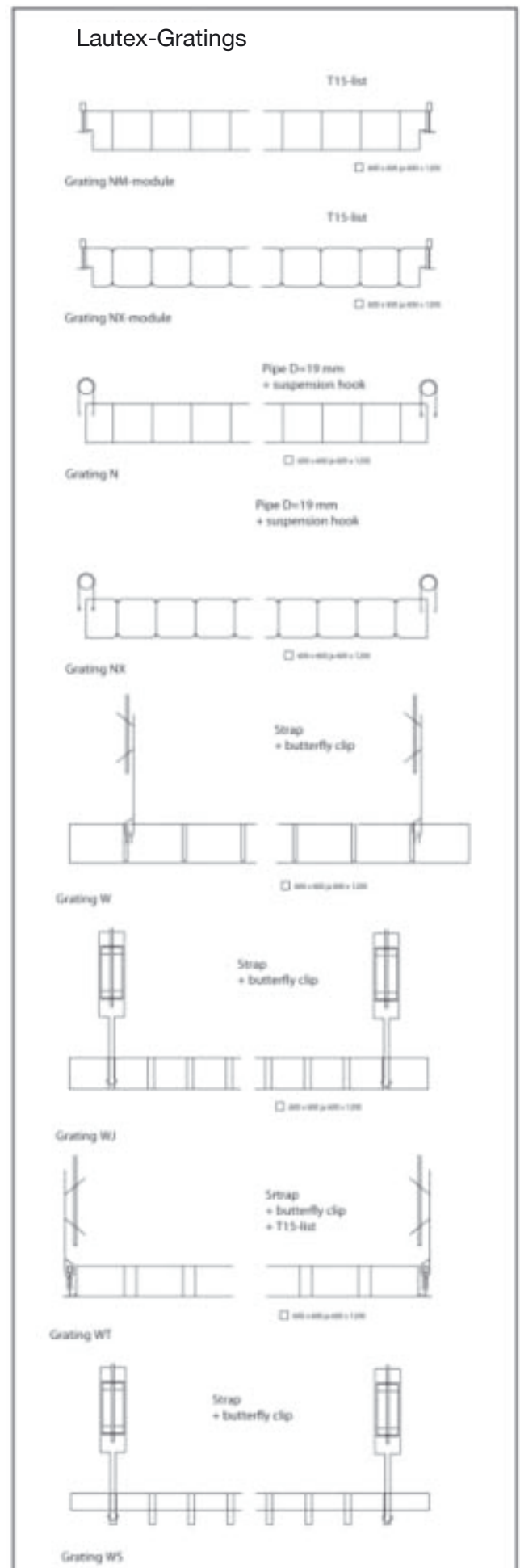


WS-Grating

- Module sizes 600 x 600 mm, 600 x 1200 mm. Optional sizes are available.
- Cell size 25 x 25 mm – 200 x 200 mm. Optional sizes are available.
- Height according to cell size 25–100 mm.
- Made of aluminium.
- Suspension systems, edge mouldings and lighting fixtures are available for all grid types.
- The products can be painted in colours chosen from all well-known colour charts.
- Surface finishing can also be by anodising, standard colours LTX-108 mirror silver and LTX-109 mirror gold.
- The ceilings are easy to clean.
- Tailored solutions are also possible.



WJ-Grating and custom made elements



Custom made specialities

LAUTEX also manufactures special tailor made ceilings and ceiling solutions according to specification of the customers. If there is a need for a special solution or product, the customer can take contact with our technical engineering department in the beginning of the project. Examples of some special products which have been made customerwise : Beams of different shapes, light coves, front plates, big ceiling elements of different shapes and domes / illuminated ceilings.



Custom made beams with PR-Profiles

Lautex has years of experience to offer different kinds of surface finishing possibilities compared to standard finishing methods. Some examples from our finishing possibilities are :

- Polished anodised or colour anodised aluminium surfaces
- Metallic lustre colours
- Special paintings
- Printing colours
- Wood and stone imitations
- Special decorative surfaces
- Special perforated ceilings

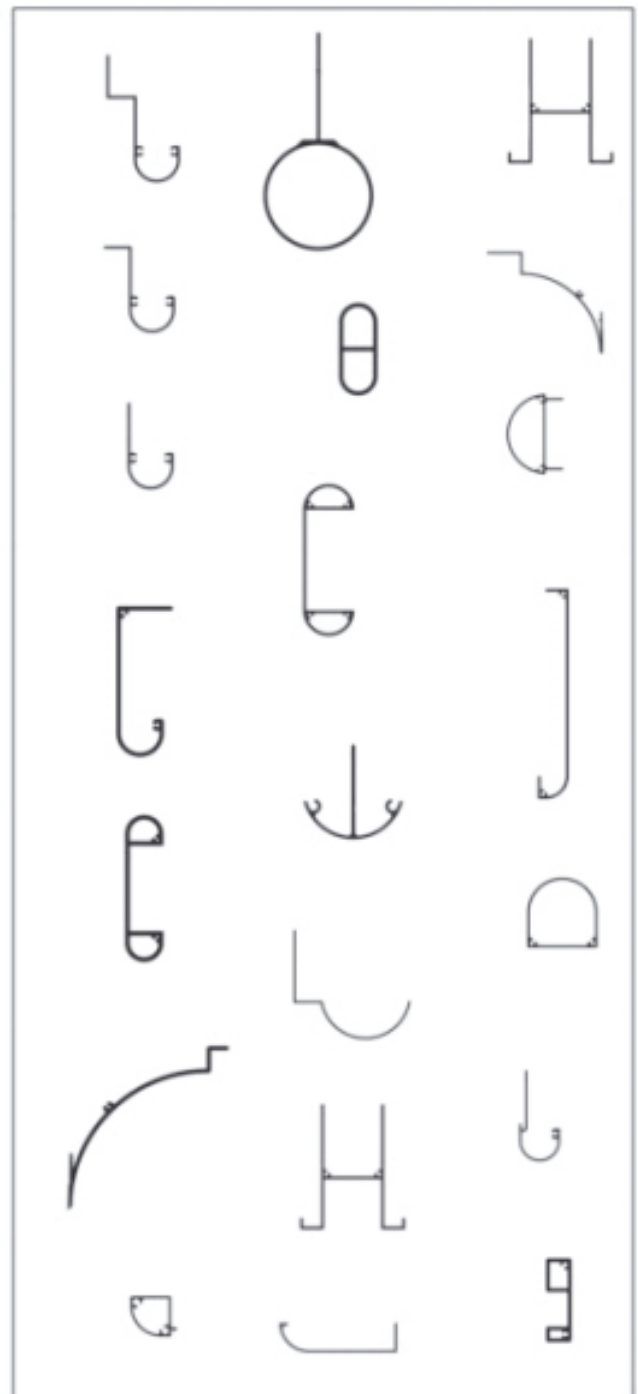
LAUTEX has developed various specific edge and decorative profiles that can be used on the front surfaces and edges of ceilings. When needed, LAUTEX can also manufacture, case-by-case, thin sheet products according to customers' wishes and the appearance needed for such use.



Custom made dome in Cassette ceiling



Some surface possibilities



Decorative profiles, some examples

LAUTEX- contact information

The machinery used in production has been developed to serve the customers needs with years of experience. There are already now a huge number of standard tools available. Anyway, if there should not be a suitable tool for a special work asked by customer, it can be manufactured according to wishes.

Accessories

We at LAUTEX consider our customers' requirements a top priority and this is one reason LAUTEX manufactures different kinds of accessories to be used with the ceiling products. These kinds of products are for example, boxes for loudspeakers, illuminators, ventilators and service hatches (look construction details). When all the material needed in a specific ceiling installation is ordered from the same source, one can be sure that all the components are compatible, both technically and style wise. In this way it is possible to save time and trouble during the final installation.



Triangular Cassette

Some land and marine projects

Country	City	Project	Year
Finland	Helsinki	Finlandia House	1975
Finland	Espoo	Outokumpu Head quaters	1998
Finland	Helsinki	Nokia Research Center	1999
Finland	Helsinki	Helsinki-Vantaa Airport	1967–2002
Norway	Gardemoen	Gardemoen Airport	1998
Norway	Bergen	Den Norske Bank	2003
Russia	St. Petersburg	Philip Morris	1999
Russia	Moskow	Stockman Moskow	2002
Russia	Moskow	Berline House	2002
Latvia	Riga	Stockman Riga	2003
World-wide over 30 IKEA stores			since 2002

Year	Name of Vessel	Shipyard	Hull	Owner or Operator
2000	Costa Atlantica	Kvaerner Masa Yards	498	Costa Crociere, Italy
2000	Explorer of the Seas	Kvaerner Masa Yards	1345	Royal Caribbean International, USA
2000	Millenium 1+2	Chantiers de l'Atlantique	R31/S31	Celebrity Cruises, USA
2000	Olympic Voyager	Blohm+Voss	961	Olympic Cruise Lines, Greece
2001–2002	Superfast 7–10	HDW Kiel, Germany		Superfast Ferries
2001	Norwegian Sun	Lloyd Werft, Germany	109	NCL, USA
2002	Brilliance of the Seas	Meyer Werft, Germany	656	Royal Caribbean International
2003	Queen Mary II	Chantiers de L'Atlantique	G32	Cunard
2003	Chrystal Serenity	Chantiers de L'Atlantique	H32	Chrystal Cruises
2003	Costa Mediterranea	Kvaerner Masa Yards	502	Costa Crociere
2003	Carnval Miracle	Kvaerner Masa Yards	503	Carnival Cruise Line
2003	Mariner of the Seas	Masa Yards, Turku	1348	Royal Caribbean Cruise Line

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