



Presentation of the Modern-XXI company





General description of the company

Modern-XXI company has been working at the Ukrainian market since 1997 and from that time the company has recommended itself as one of the leading manufacturers and sellers of wooden, aluminium and PVC windows and doors as well as façade systems well known under the trade mark "Modern". At the present moment "Modern-XXI" represents a contemporary enterprise with a closed production cycle equipped with leading hi-tech machines with powerful staff force (more than 300 qualified specialists of different fields) and efficient top management. This structure allows us to solve the most comprehensive and non-standard tasks.

The production facilities of Modern-XXI enable to manufacture constructions of any complexity: arched and oblique-angled items, tilt&slide, lift&slide, folding systems and façade constructions. To improve the quality of customer service and to reduce the delivery time Modern-XXI has created a successfully operating branch networks in Kharkov, Kiev, Simferopol, Odessa, Lvov, Dnepropetrovsk and a far-reaching distribution system in Ukraine and Russia.





Company's history

The history of «Modern-XXI» dates back to 1997 when the plant for production of PVC windows was opened in Kharkiv. At the same time, our company begins to produce the glass units for our items. One year later, we were able to take a leading position in the regional market of PVC windows.

The 1998 was a decisive year for our company. This year the company «Modern-XXI» opened the plant for production of wooden windows, and since 2000, we have started the production of Euro beam.

In 2001 the company developed a new, very promising direction in the field of translucent constructions – the production of a variety of



aluminum constructions. The expansion of activities, the increase in production and constantly improvement of the quality of products allow the company to enter the markets of other regions of Ukraine, CIS and far abroad.

Since 2001, the representative office in Kiev has begun its work.

2002-2003, the representative offices in Odessa and Simferopol were opened.

In 2004, the company launched a large-scale project – the technical modernization and expansion of production capacity of the enterprise. Company's specialists considered the possibility of industry equipment, carefully



studied the products of leading European manufacturers of equipment for the manufacture of window constructions, and analyzed the possible difficulties of its application in the specific conditions of company production, the prospects of using different types of equipment in the complex and many other aspects of the production process. To realize this project, the company increased the production area by more than twice. This makes it possible to increase annual production up to 140 000 m² in PVC, up to 90 000 m² in wood and up to 25 000 m² in aluminum.

In mid-2004, customers from the western region of Ukraine had the opportunity to learn about the products of Modern™ in representative office of the company in Lviv.

2007. The company «Modern-XXI» occupied the position of a powerful production enterprise, equipped with advanced high-tech equipment, with a powerful staff force (more than 300 qualified specialists in different fields) and efficient top management. This structure allows the company to solve the most complex and non-standard tasks and to become a leader on the market of translucent structures of Ukraine and CIS countries.

In 2007, to promote the production of Modern™ the company opened the branch in Dnepropetrovsk.

The 2010-2011 are a very important period for the company «Modern-XXI». At this time, the company's products have been marked by the European certificate of conformity - CE (the high quality indicator of products). Receiving of





Company's history

this document opens up new horizons for the company - the expansion of markets and the opportunity to present Modern™ products on its territory of the European Union.

In 2010 the company's branch in Donetsk began its activities (in connection with the military situation on the territory of the Donetsk region, in 2014 a branch was forced to suspend its activities temporarily).

In 2013, the company's representative office began its work in Belgorod (Russian Federation).

In 2014 a new project of "Modern-XXI" company stated in Kharkiv, in which «The centers of energy-efficient window technology» began its work. These are a place where you can get simply and absolutely free advice of experienced professionals in the field of energy efficiency. This information will help to orient in terms of energy savings, find out what are the heat losses and how to reduce the amount of «outgoing» heat through the windows, and thus save on heating and additional heating.

Export

Since 2004 - the beginning of deliveries of the Modern company's products to Russia

Since 2006 - deliveries to Europe

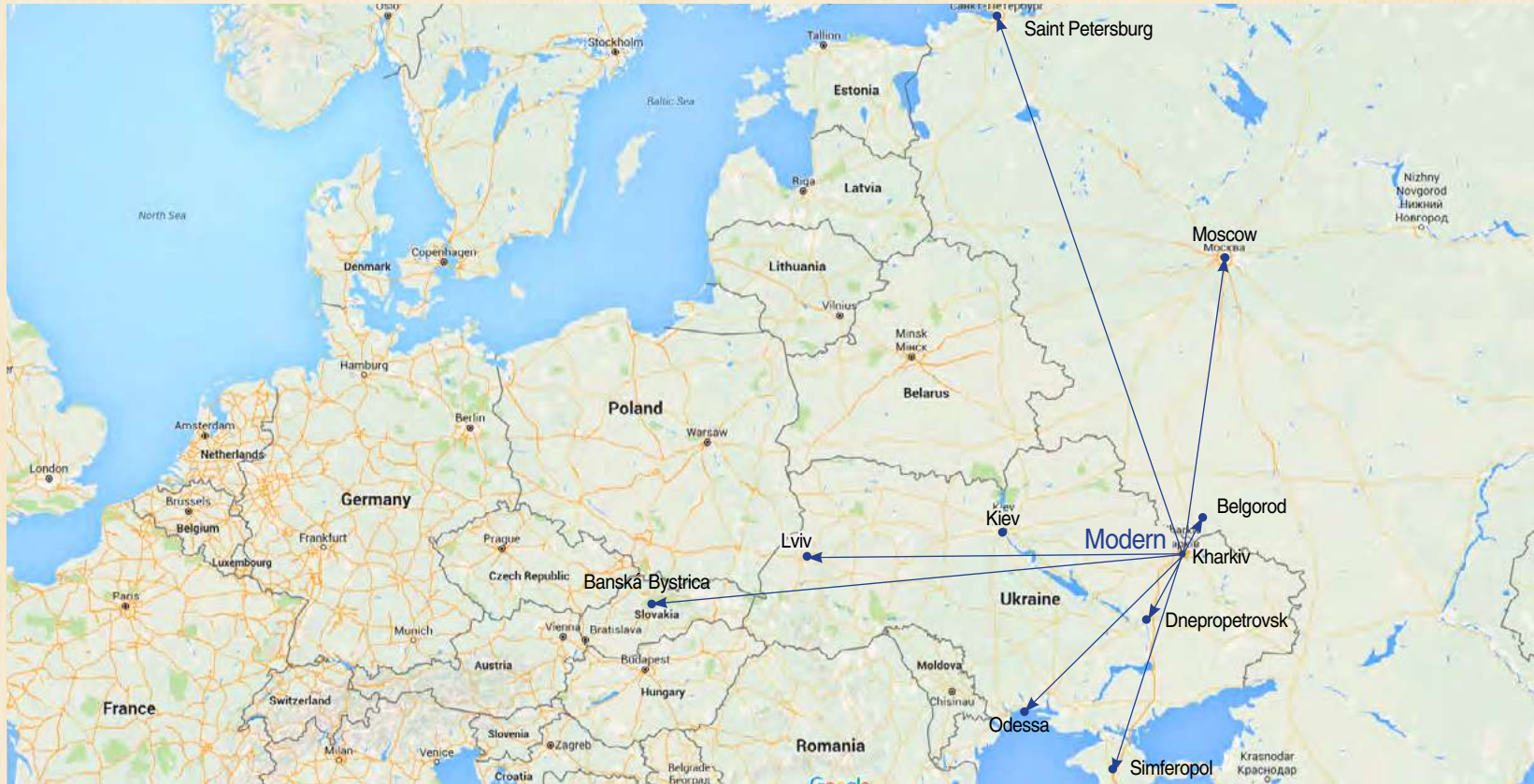
2012 - exports to Canada

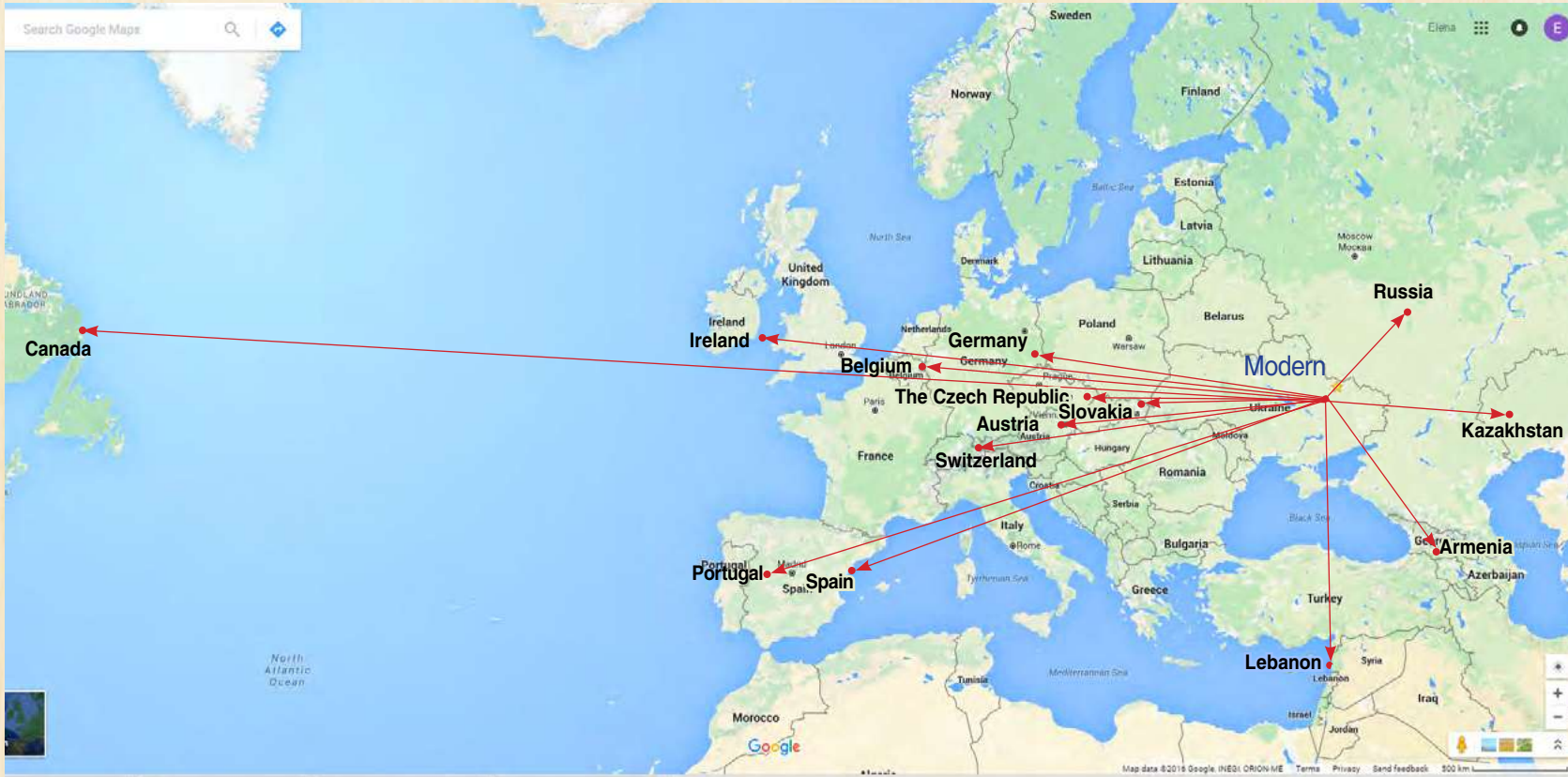
2015 – the opening of the representative office in Slovakia





The geography of the Modern-XXI company's branches







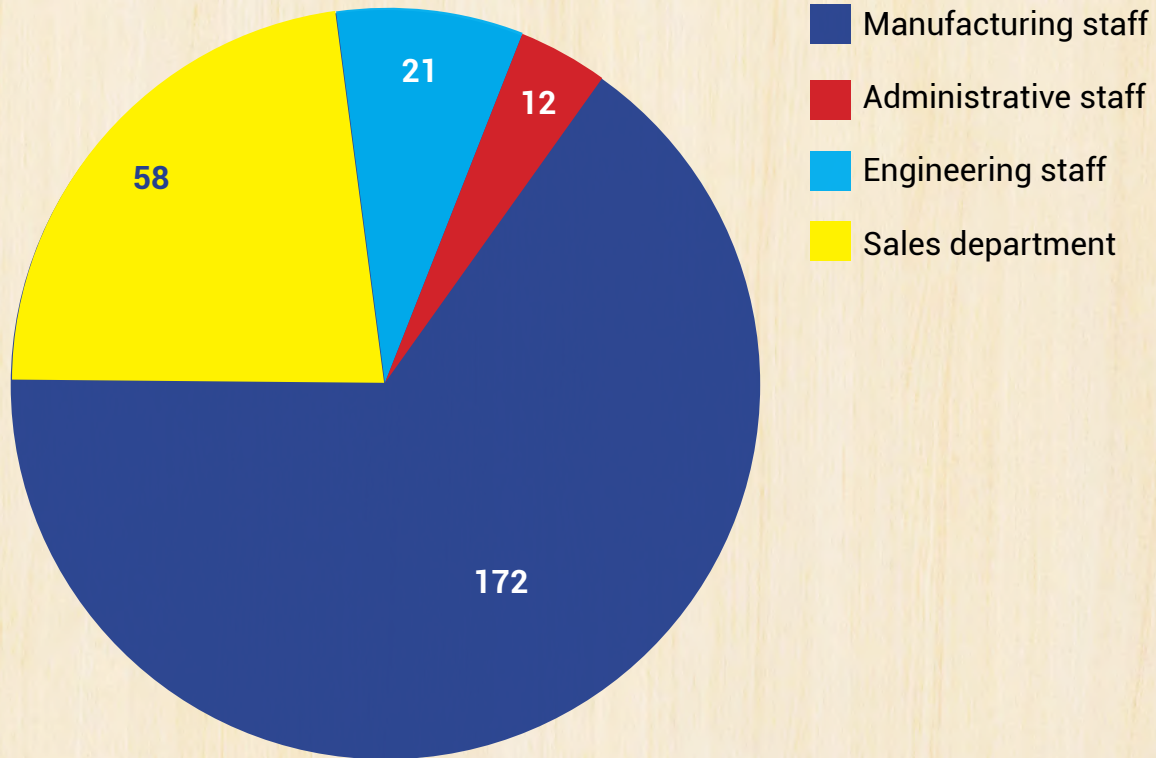
The production volumes

The annual overall production is 250 000 m² where up to 90 000 m² are wooden items.





The human resources management



Today, the Modern-XXI company operates more than 263 persons



Product quality



The specialists of Modern-XXI have developed and applied a comprehensive Quality Control System (QCS). The underlying principle of the QCS is strict quality follow-up at every stage of unit production: from purchasing of raw materials and accessories to monitoring of finished goods quality (with a mandatory compliance with National Standards and Construction Norms and Specifications) and the level of customer service.

Today the company buys high-quality timber in Russia, northern Ukrainian regions, and exotic species in Austria, Czech Republic, Thailand, regularly monitors the materials received from partners: paints, impregnations, coatings and other raw materials that are essential for the production of high-quality windows.



The production of wooden items under TM Modern involves the use water-based impregnation and varnishes which are producing by the leading Germany companies. The quality, environmental friendliness and safety of these varnishes and impregnation are proved by the environmental standards DIN EN 73-1, "BLUE ANGEL", environmental test: "OKO TEST".

In 2003 a triple laminated Euro beam (with 82x86 mm cross-section and a radial saw cut) produced by the company was certified according to the modern state requirements.

The quality of products of TM Modern is certified by DIN EN ISO 9001-2001 Certificate. This quality control system ensures the stable properties of products at all stages of production and confirms the continuous improvement of products.

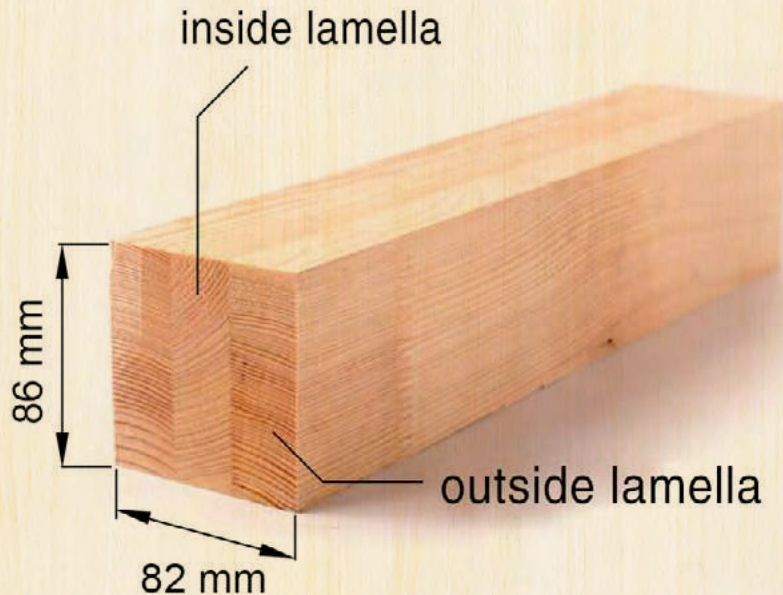
PVC and wooden windows of TM Modern are marked by CE Certificate (Conformité Européenne – European Conformity) – a special sign which is applied to the product and proves the conformity with the requirements of EU Directives





Beam for windows production

All items are made of a triple laminated Euro beam with 82*86 mm cross-section and a radial saw cutting of lamellas. The work pieces are dried out at 12% moisture content. These conditions meet the requirements of our climatic zone.



Advantages of using the laminated Euro beam instead of a solid one:

- All defects of timber are removed.
- Due to small size of beam elements and gluing its fibres in different directions there is no internal pressure inside timber and beams. It makes the items of TM Modern resistance to crooking, torsion, cracking, etc.
- Thermal insulation properties of windows made of laminated Euro beam are up to 15% higher than conventional wooden windows.



Wood species and coating

Types of timber:



oak



larch



meranti



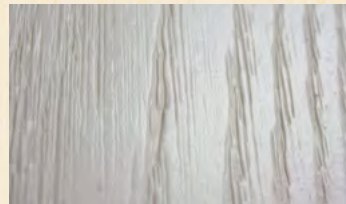
pine



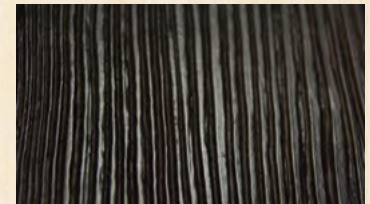
For staining wooden products TM Modern uses German paints on the base of water-soluble compounds. Water-based paints are ecologically clean, more elastic, durable and glitter. Water-based impregnations and varnishes protect wood from spoiling, insect damage and at the same time prolong lifetime of the product.

Due to the wide color range of paints and varnishes wooden products of TM Modern could be stained in any RAL colors.

Brushing oak

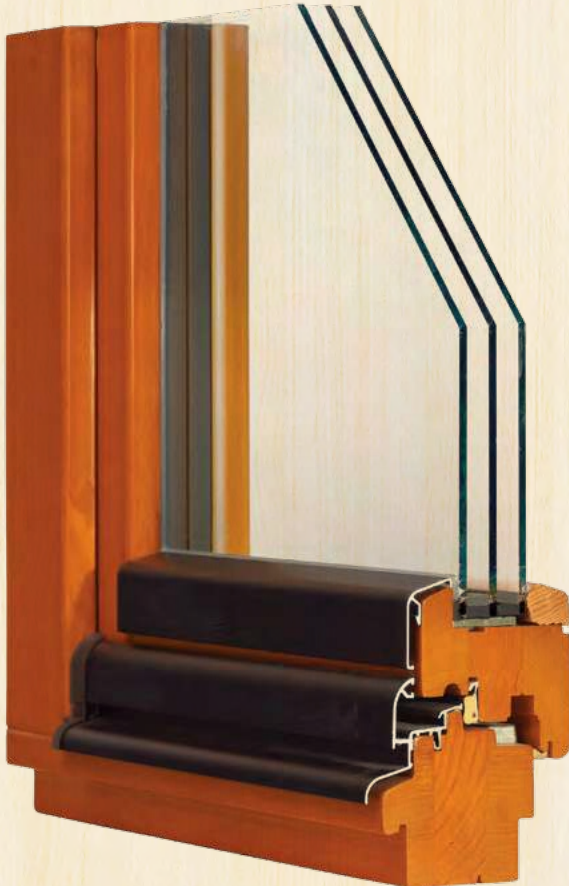


Brushing pine





Products. Windows. Wood Line



- two-layer of seal Schlegel (German)
- aluminium drip edge
- GU fittings (German)

$U_w = 0,75$



Products. Windows. Alu Wood



- aluminium cladding from outside
- cladding decorating "wood texture"
- two-layer of seal Schlegel (German)

$U_w = 0,75$



Products. Windows. Thermo Wood



- thermal insert from multifunctional insulation
- thermal characteristics of beam with thermal insert respond with indicators of 138 mm beam
- aluminium cladding

$U_w = 0,87$



Products. Windows. Hi-Tech



- sash is covered with tempered glass
- glass unit widths of 58 mm or 64 mm
- the glass edge can be stained in any RAL colors.



- the lower part of frame and sash is covered with aluminium drip edge.



For the production of windows the Modern-XXI company uses the glass units of its own production with applying of innovative technologies. Energy efficient properties of these glass units surpass the National standards of Ukraine several times.

For the production of energy-efficient glass units the Modern-XXI uses:

- energy saving glass unit (i-glass)
- polymer spacer distance
- filling of inert gases (Argon or Krypton)
- multifunctional glasses.

Energy-efficient glass (i-glass)

Energy-efficient (energy-saving) glass is polished glass with a special low-emission coating of metal oxides that keeps the premises warm. The coating easily permits short-wave solar energy through and at the same time reflects long-wave emission, e.g. from electric devices keeping it inside.





Products. Sliding systems



Technical specifications:

Possible height is
from 820 mm to 2500 mm

Sash width is
from 750 mm to 2000 mm

Sash weight:
up to 200 kg

Tilt and Slide system



Products. Sliding systems



Folding Sliding System

Technical specifications:

maximal length is
up to 6000 mm

number of sashes is
from 3 to 7

Entrance sash width is
from 486 mm to 1236 mm

Folded sash width is –
from 486 mm to 936 mm



Products. Sliding systems

Technical specifications:

Possible height is
to 3500 mm

Sash width is
from 700 mm to 3300 mm

Width of construction:
is up to 18 m



Lift and Slide system



Products. Façade systems

Wooden façade systems are produced similar to aluminium constructions, but unlike them, all key elements are made from wood. The standard system uses the mullion and transom from 50 to 100 mm in width and from 60 to 120 mm in depth, depending on the permissible size of the construction and according to the wind and static loads.

Wooden façade systems have a number of advantages: environmental, aesthetic appearance and a high level of thermal insulation.

The visible inner units are entirely wooden. Aluminium plates that support the glass unit are mounted to the wooden carrying frame. Decorative “flapper” that covers the clamping profile can be wooden or aluminium.

For coating and staining of the façade systems The Modern-XXI uses the water-based paints and varnishes that do not emit harmful vapours. In the production of facade systems may use different types of glazing, depending on the task. For example, the multifunctional glass units in the façade systems considerably reduce costs on heating and air conditioning.





Products. Wooden doors

In the production of wooden entrance doors TM Modern uses triple laminated beam with 82*86 cross-section. Various constructional solutions allow us to produce entrance doors of normal and large sizes.

The 108*78 mm sash profile makes it possible to use different lever sets and special hinges enduring 120-150 kg.

The entrance doors can be produced in retro style with recessed hinges enduring up to 210 kg.

Entrance doors are supplied with various door fittings: standard, antiburglar system with transoms and tow hooks to protect the apartment from uninvited guests. It is also possible to connect to the system of «Smart house».

The wooden entrance doors of TM Modern can have not only rectangular shape but also non-standard: arched, oblique-angled or in Hi-Tech style.





Contacts

Video presentation of Modern-XXI company



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