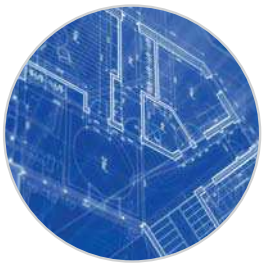
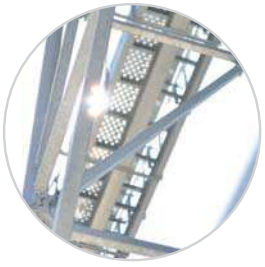

ThermaSteel®
www.thermasteel.eu
WE
HELP TO
BUILD
THE
FUTURE!

MAIN SERVICES



INDUSTRIAL AND COMMERCIAL FACILITIES DESIGNING

METALWORK AND WELDED I-BEAM MANUFACTURING



QUICKLY ERECTABLE FRAME CONSTRUCTIONS BUILDING

CLADDING STRUCTURES MANUFACTURING

ROOFING AND FACADE SYSTEMS MANUFACTURING

LIGHT GAUGE STEEL FRAMED STRUCTURES DESIGNING, MANUFACTURING AND ASSEMBLING

ABOUT THE COMPANY

ThermaSteel is:

new generation construction-engineering company with great work experience on the market of engineering and building

one of the Ukrainian leaders in roofing and facade materials manufacturing

offices in EU, Middle East and Ukraine

advanced manufacturing equipment

high quality raw materials from international manufacturers

the highest standards industrial management

employing more than 170 professionals in the field of construction, design and engineering

large-scale manufacturing facilities – more than 10 000 sq. m

more than 70 completed projects around the world

constant growth of services and the variety of products, according to the requirements and the development of domestic and world market

reliable partners

typical and customized solutions in the field of commercial building

accurate worldwide products delivery

ThermaSteel®

2016

"Thermasteel" completed the certification process according to ISO 3834: 2005 (welding quality control), completely adapted its activities to the European manufacturing standards and was certified EN 1090-2+A1:2011.
The company's success is the result of continuous investments in the technologies, manufacturing capacity and human resources.

2015

"Thermasteel" has been certified according to ISO 9001: 2008 (Quality Management System) in the designing, manufacturing and engineering buildings and constructions of metalwork and light gauge steel framed structures, welded I-beam manufacturing, manufacturing and distribution of metal products, as well as building material bundling

2013-2014

increasing of rate and volume of production, implementation of construction projects in Ukraine, supply structures to the CIS countries

2006-2013

active work on the Ukrainian domestic market

2006

"ThermaSteel" domestic and world market entry

100 thousands sq.m.
CONSTRUCTED FACILITIES

70 construction project
COMPLETED FOR UKRAINIAN AND FOREIGN COMPANIES

Key activities:

- 3D object modeling, visualization and project design of buildings and structures for civil and industrial use
- projects development for commercial and private construction
- metalwork manufacturing
- steel constructions assembling
- manufacturing of metal tile and profiled sheeting, facade cassettes, seam roofing, metal siding, facade and roofing diamonds and various kinds of components
- all types of construction and assembly works
- Designing, manufacturing and assembly of buildings based on LGSFS (light gauge steel framed structures)
- building materials supply for the facility bundling

MANUFACTURING CAPACITY

ThermaSteel®

up to **4000** meters/month

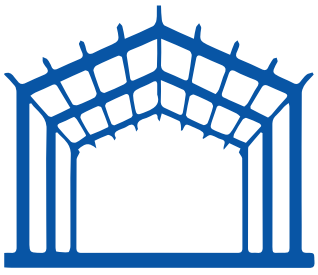
WELDED I-BEAMS

up to **500** tons/month

LIGHTWEIGHT STEEL HOT-ROLLED CONSTRUCTIONS

up to **400** tons/month

VARIOUS COMPLEXITY METALWORK



MANUFACTURING CAPACITIES OF METAL CONSTRUCTIONS FACTORY

up to **250** tons/month

LIGHT GAUGE STEEL FRAMED STRUCTURES FOR HOUSES

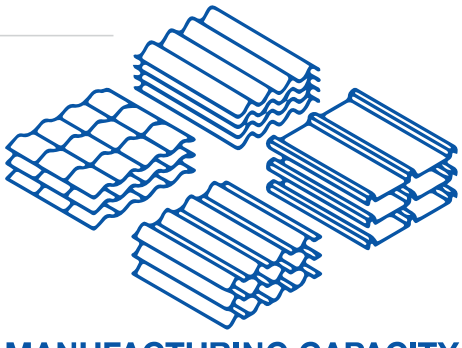
LIGHT GAUGE STEEL FRAMED STRUCTURES

up to **650** tons/month

C- AND U-SHAPED BEAMS

more than **500** tons/month

PROFILED SHEETING, FACADE CASSETTES, STEEL SIDING, "FISH SCALE" TILE



MANUFACTURING CAPACITY OF A FACTORY FOR THE PRODUCTION OF ROOFING AND FACADE MATERIALS

X2 manufacturing capacity

It is important to note that the indicators of manufacturing capacities are rapidly growing, as manufacturing technologies are regularly improved, and technical equipment is modernized.
If required manufacturing capacity can be increased at least 2 times within a month.

RESOURCES

171 employees

professionals in different fields and areas

51 units

of professional equipment (tools and machinery) from the leading producing countries, including the USA, China, Germany, Poland, France, Italy and other.

more than **700** dealers

representative offices in EU and the United Arab Emirates

ENGINEERING AND DESIGN

Engineering includes:

- complete set of project documentation
- 3D facility modeling, visualization, and architectural design of the project with the use of modern software
- metal framing and cladding structures designing
- Light gauge steel framed structures (LGSFS) and composite frames engineering
- expert evaluation of the project in order to significantly reduce the cost by the use of more advanced constructive and estimated design schemes

Rules and regulations:

- Steel constructions are being developed according to the Eurocode 3 “Design of steel structures”
- Framing elements (hot-rolled and composite) are being developed in compliance with EN 1993-1-1 “General rules and regulations for buildings”, EN 1993-1-11 “Design of structures with tension components”
- Light gauge steel framed structures are being developed in compliance with EN1993-1-1 “General rules and regulations for buildings”, EN 1993-1-3 “Supplementary rules for cold formed elements and sheeting”, EN 1993-1-5 “Plated structural elements “
- All joints (seams) are developed in compliance with EN 1993-1-8 “Design of joints.”
- Manufacturing of frame elements are being developed in compliance with EN 1090-2 + A1: 2011. All welding is done according to ISO 3834: 2005. All personnel involved in welding are qualified and have the appropriate certificates.

Loads:

- All loads are considered according to the Eurocode 1. “The loads on structures.”
- Part 1.1. General actions. Density dead weight and operational loads on buildings
- Standard is applicable to both permanent and temporary loads and impacts that should be identified and taken into account in the design of load-bearing structures of buildings and engineering structures based on geotechnical conditions.
- Part 1-3. General actions. Snow loads. EN 1991-1-3 provides principles and provisions on the calculation of snow loads on the structure
- Part 1-4. General actions. Wind loads. Provides guidance on the appointment of natural wind effects on external surfaces, considered in the design of buildings and engineering structures.

MODULAR BUILDING TECHNOLOGY

As a load-bearing and self-supporting constructions a combination of welded I-beams, building assortment of hot rolled materials as well as light gauge steel framing is used.

As a cladding structure ready-to-use sandwich panels, facade and roofing materials of own manufacture are used.

Technical solutions

1. Load bearing columns and joists are made of welded I-beams using bolted connections, roof and wall purlins are made of bent channel

2. Load bearing columns, joists are made of welded I-beams, roof and wall purlins are made of cold rolled galvanized C-, Z-profiles.

3. In the composite frame the bearing columns are made of welded I-beam, and as a coating space truss of light gauge steel framed structures (LGSFS) is used. Roof and wall purlins for cladding structure are made of cold rolled galvanized C-, Z-profiles.

4. The frame is completely made of light gauge steel framed structures (LGSFS) made from high-quality galvanized steel S350GD.

Quickly erectable frame constructions are:

- Agricultural facilities
- Industrial and commercial premises
- Service stations
- Industrial facilities
- Sports facilities
- Logistics centers and warehouses
- Aircraft hangars
- Administrative buildings and entertainment centers

The advantages of quickly erectable frame constructions technology:

The variety of architectural forms, by using a composite frame.
The original layout of buildings and easy implementation of the project.

No need for massive construction of foundations, which significantly reduces construction costs.

The rapid setting of the building into operation and quick return of investments due to rapid and simple assembly.

Small transport expenses and timing of constructions supplies to the facility, by their design and manufacturing at the factory, considering their further transportation.

Parallel facility implementation, which significantly reduces the terms of its implementation as a whole.

Reuse of building structures. The ability to dismantle the building and move to a new location.

Resistance to seismic and other dynamic loads, due to the peculiarities of the steel frame - up to 9 points by Richter scale.

Possibility of subsequent expansion of the building.

MAX

No need to refine facility, due to the maximum factory list of equipment of the building

High maintainability, easy replacement of some elements in case of mechanical damage.

METALWORK MANUFACTURING

ADVANTAGES:

up to **400** tons/month — **CAPACITY OF METALWORK**

more than **5000** sq.m. — **MANUFACTURING AREA**

- welding technologies and personnel certified according to European standards
- equipment from leading manufacturers — FAGOR, LINCOLN, FRONIUS and others
- guaranteed quality of raw materials and welding consumables
- factory quality control
- manufacturer certificates

Metalwork production stages:

1. PROCURING PROCESS
2. ASSEMBLING AND WELDING FRAME ELEMENTS
3. CONSTRUCTIONS CLEANING
4. PAINTING OF CONSTRUCTIONS
5. QUALITY CONTROL AT EVERY MANUFACTURING STAGE ACCORDING TO THE REGULATORY DOCUMENTS

MODULAR BUILDING ASSEMBLY

advanced technology of metalwork assembly

professional engineering staff

the best equipment, tools and our own fleet of special vehicles (mobile cranes, hoists)

performance of assembly work of any complexity

individual approach

Delivery to the facility

- fast delivery worldwide
- our own fleet of cargo transport
- reliable logistics partner companies
- shipping abroad by sea transport with loading into containers
- labeling of transported goods according to the project documentation
- no downtime during transportation

LGSF MANUFACTURING

High-tech equipment with numerical control made by the US company «Royal Systems LLC» is used.

Forming equipment used by “Thermasteel” is adapted to work with the Vertex BD - advanced software for designing buildings with LGSFS. It enables the development of projects of residential, civil and industrial buildings in any degree of detail with the formation of the cost during the day.

Light gauge steel framed structures is:

- Cottages
- Attics, extensions, superstructures
- Townhouses
- Separate elements of the building
- Small architectural forms
- Enclosing systems in cast-concrete structures
- Interroom partitions

MANUFACTURING

FACADE AND ROOFING MATERIALS

Production of metal tile (“Antibes” and “Treviso”), corrugated board, open and closed facade systems, “diamonds” systems, metal siding systems, standing seam roofing systems, components and others.

For manufacturing is used:

more than **6000** sq.m.

MANUFACTURING AREA

more than **500** tons/month

MANUFACTURING CAPACITY

X2 manufacturing capacity

With the possibility of increasing it 2 times within a month.

the highest quality raw materials

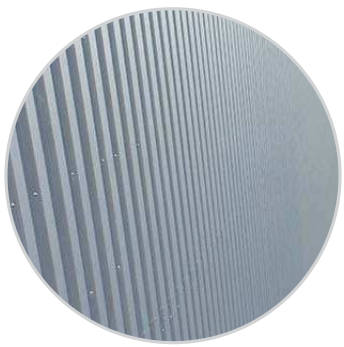
materials from leading world manufacturers

In industrial building:

- Facade or roofing material (exterior decoration)
- Vapor barrier membrane
- Insulation
- Thermal pad
- Superdiffusion membrane
- C-, Z- profile for fixing the cladding material
- Wall and roofing material (interior decoration)

Examples:

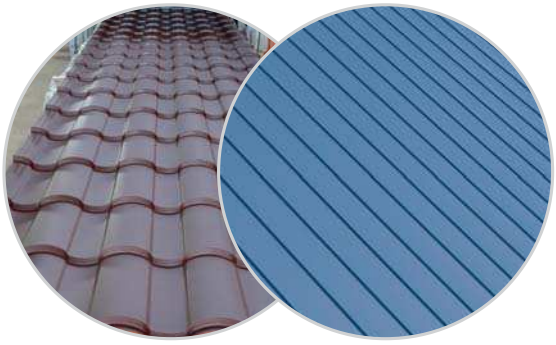
WALL PANELS BASED ON OPEN AND CLOSED TYPE CASSETTES



WALL AND ROOF PANELS WITH CORRUGATED BOARD

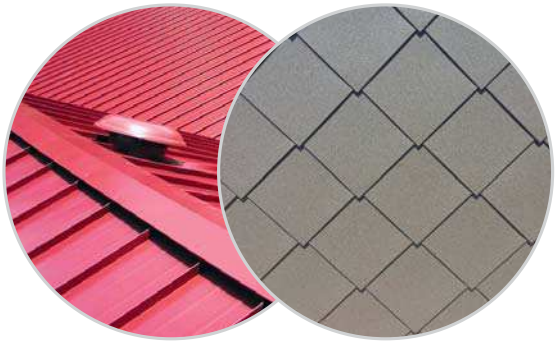
ROOFING AND FACADE “RHOMBUS” SYSTEM

EXAMPLES ROOF:



DECKING AND METAL

- Decking / metal
- Lath (runs)
- Counterlath
- Superdiffusion membrane (gidrobarer)
- Rafter system



FOLD AND ROOFING RHOMBUS

- Fold pattern / roofing rhombus
- Solid lath or OSB sheets
- Counterlath
- Superdiffusion membrane (gidrobarer)
- Rafter system

EXAMPLES FACADES:

OPEN AND CLOSED CASSETTES

- Open and closed cassettes
- Vertical bearing plank
- Horizontal bearing plank
- Wind barer
- Heat insulation
- Front plank

FACADE AND ROOFING MATERIALS

RHOMBUS FACADE

- Rhombus facade
- OSB-3 sheet
- Horizontal bearing plank
- Wind barer
- Heat insulation
- Front plank

VERTICAL SIDING

- Vertical siding
- Horizontal bearing plank
- Wind barer
- Heat insulation
- Front plank

HORIZONTAL SIDING

- Horizontal siding
- Vertical bearing plank
- Wind barer
- Heat insulation
- Front plank

FACADE DECKING

- Decking
- Horizontal bearing plank
- Wind barer
- Heat insulation
- Front plank

FRANCHISING CONDITIONS

- the right to use “Thermasteel” trademark
- patented technology for manufacturing light steel structures
- technical requirements for the manufacture of products and structures
- informational materials
- existing projects of houses from our catalog
- personal training
- support and advertising

Licenses and certificates

IMPLEMENTED PROJECTS

282 tons

4270 sq.m.

Ukraine.
2013-2014

Plant for the production of powdered milk and finished products.

87 tons

2910 sq.m.

Ukraine.
2014

Parking for farm machinery.

45 tons

1575 sq.m.

Equatorial Guinea.
2014

Sports complex.

358 tons

Ukraine.
2011

International Airport, «D» terminal

79 tons

1296 sq.m.

Ukraine.
2015

Construction of motor transport enterprise for trucks with an outdoor overpass.

658 tons

7000 sq.m.

Ukraine.
2013

Metal products manufacturing plant.

IMPLEMENTED PROJECTS

84 tons

1620 sq.m.

Ukraine.
2014

Reconstruction of industrial and administrative building for the installation of a spray dryer unit.

150 tons

4416 sq.m.

Ukraine.
2013

Warehouse, office and household premises.

34 tons

820 sq.m.

Ukraine.
2014

The site of finished product packaging of the plant's "TECHNONICOL" manufacturing sections.

77 tons

Ukraine.
2013

Store non-food products.

48 tons

1647 sq.m.

Ukraine.
2012

Production facility for the manufacturing of printed products.

97 tons

2800 sq.m.

Ukraine.
2011

Industrial zone subsidiary farms for rabbits fattening.

IMPLEMENTED PROJECTS

TONS 67 tons

1400 sq.m.

Ukraine.
2014-2015

The complex of stone processing manufacturing buildings.

TONS 350 tons

7200 sq.m.

Equatorial Guinea.
2013

Hydroelectric power plant construction base facilities.

TONS 178 tons

2880 sq.m.

Ukraine.
2012

Warehouses with administrative and household premises.

TONS 75 tons

1080 sq.m.

Ukraine.
2014

The block of warehouses for the woodworking complex.

TONS 180 tons

Ukraine.
2013

Warehouse for storing apples.

TONS 70 tons

970 sq.m.

Ukraine.
2015

Construction of the shop for the maintenance of technological apparatus.

IMPLEMENTED PROJECTS

TONS 250 tons

10224 sq.m.

Ukraine.
2015-2016

Reconstruction of the industrial base.

TONS 44 tons

1300 sq.m.

Ukraine.
2016

Construction of products warehouse.

TONS 282 tons

6216 sq.m.

Ukraine.
2012

Agricultural production building (mushroom growing unit).

TONS 93 tons

Ukraine.
2012

The complex of small packing of confectionery for “Roshen” factory.

TONS 71 tons

400 sq.m.

Ukraine.
2010

The hangar for the mining equipment.

TONS 56 tons

1120 sq.m.

Ukraine.
2012

The warehouse for storage of spare parts of drilling equipment.

FOR NOTES

FOR NOTES

Head Office
LLC Thermasteel
52 Zenkovskaya street, Poltava, 36009, Ukraine
tel/fax +38 0532 506 559
www.thermasteel.ua
e-mail: info@thermasteel.ua

Representative office in EU
11 Kazimerza Kordylewskiego, Krakow,31-542, Poland
TSB Sp.z.o.o
+48 880 961 459
www.thermasteel.pl
email: info@thermasteel.pl

Representative office in UAE
Stamdart Charered Tower, Level 5, Emaar Square,
Downtown Burj Khalife, Dubai
I.B.C TSB
+971 56 133 6587
www.thermasteel.ae
e-mail: tsb.oae@gmail.com