

ANDROMETA LLC.



THE COMPANY PRESENTATION

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MAPOMETA COMPANY'S PROFILE AND LOCATION

Andrometa is Russian industrial company specializing in design, fabrication and supply of light gauge steel structures and sections for commercial and multi-storey residential buildings.



The Company has headquarters in Obninsk city (about 63 miles from Moscow) and representative offices in Moscow and Krasnodar cities and in Belarus and Kazakhstan Republics. The fabrication facilities are situated about 3 miles from Obninsk in Krivskoye village, Kaluga region.

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SOME COMPANY'S FACTS



- Since 1991 in the light gauge steel structures market
- About 150 projects during last 2 years
- Intelligent high-tech equipment fabrication capacity of 3400 tons per month

- State-of-the-art computer controlled roll forming and welding machinery
- Design department of 15 highly skilled
 professionals
- More than 10 patents for innovative commercial and residential building structures
- The founders of Andrometa LLC pioneered cold formed structures production in Russia. They had launched Ventall, the first Russian plant utilizing the cold roll forming technology, and made it a leading enterprise of steel framing industry
- In 2011/12 a new generations of prefabricated commercial buildings STERK® and residential buildings STEELTOWN® with frames of galvanized cold formed steel members were patented and their production was started

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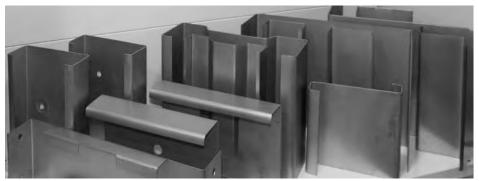
PRODUCT RANGE



Commercial buildings with cold roll-formed galvanized steel frames (STERK[®] series)



Multi-storey (up to 6) residential and social buildings with cold roll-formed galvanized steel framing (STEELTOWN[®] series)



Cold roll-formed galvanized steel Z-, C-, Σ profiles and structural sections



Profile sheets of improved shape for better water protection

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COMPANY'S MISSION





- To improve the design, manufacturing and erection processes and routines of prefabricated steel structures.
- To provide products of a new quality due to state-ofthe-art design solutions and high-precision fabrication.
- To work in practice advanced production and management technologies.
- To contribute to the light steel gauge structures market development.



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COMPETITIVE BENEFITS



•Successful experience of implementation projects of fast erected buildings with steel frame structures

- •Short and accurate time of delivery
- •Transparent and adequate prices

•Flexibility and responsive working style at all the stages of project implementation.

- Good knowledge and expertise of Russian and East Europe market of light gauge steel structures in whole and structural cold-formed steel (CFS) framing particularly, including technologies and legal procedures
- Partnership with reliable providers of raw materials and builders

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LEGAL

- The Company has certificates proving its competences for design, fabrication and erection of buildings.
- All the processes of design and fabrication of structural steel frame meet requirements of ISO 9001, ISO 14001, OHSAS 18001.

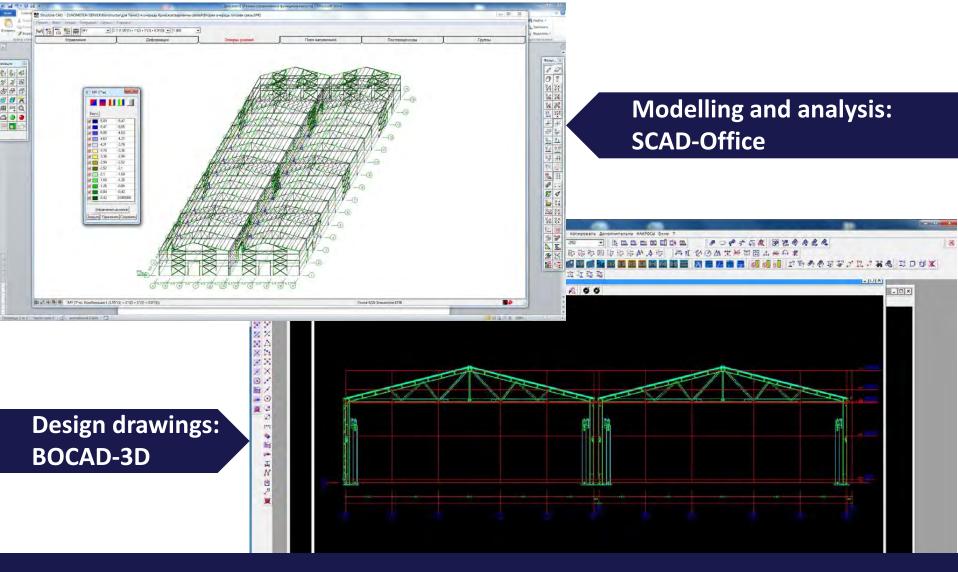


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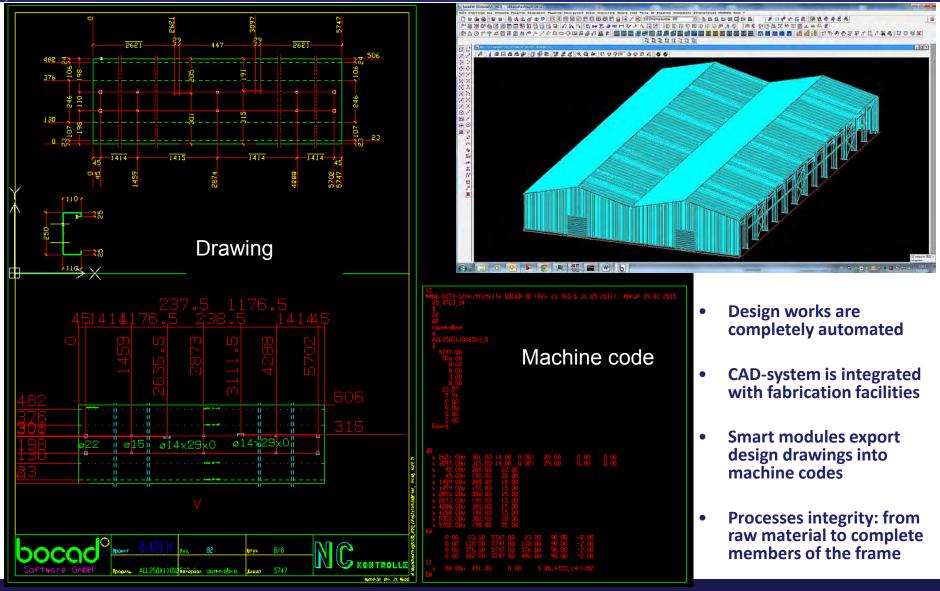
DESIGN SOFTWARE



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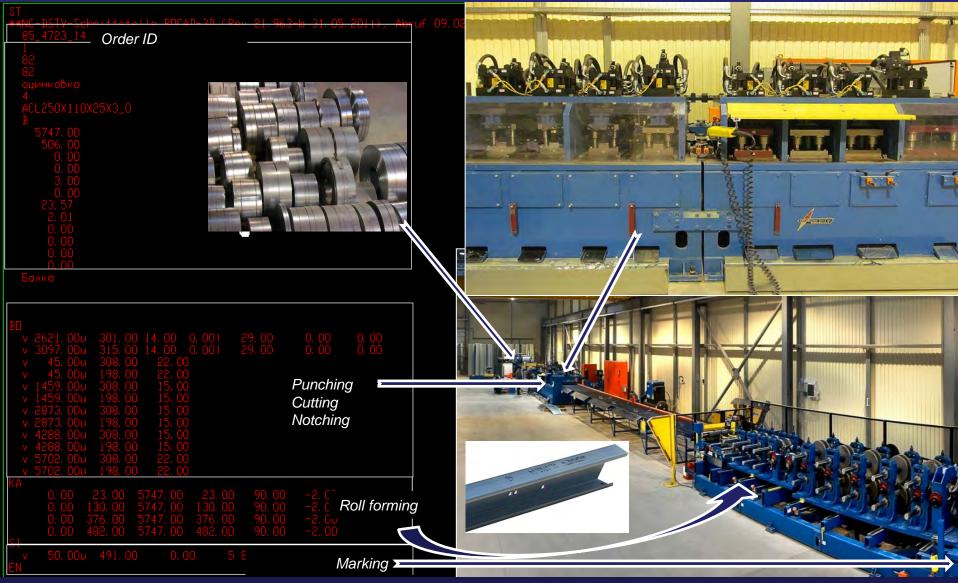
MAPOMETA DESIGN AND FABRICATION INTEGRATION



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DESIGN AND PRODUCTION INTEGRATION



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FABRICATION EQUIPMENT

ROLL FORMING



Automated line for fabrication of cold formed profiles and framing members:

profile shapes: C, Σ, Z, U
profile height: up to 400

mm; •steel thickness: from 1.2 to

3,5 mm;

• capacity: 1200 tons per month at one-shift mode of operation

Automated line for fabrication of cold formed profiles and framing members for residential building:

- •profile shape: C
- •profile height 150 mm;
- •steel thickness: from 0.7 to 1.6 mm;

•capacity: 350 tons per month at one-shift mode of operation



Combined steel coil slit and cut line:

- steel thickness: up to 4 mm;
- coil weight: up to 15 tons;
- strip width: from 25 mm to 1500 mm
- capacity: 3200 tons per month at oneshift mode of operation

Hydraulic folders for fabrication of wide range of profile shapes:

- steel thickness: 1 – 3 mm (short length folder); 2 -8 mm (long length folder);
- length of profiles: up to 3 m
- capacity: 60 tons per month at one-shift mode of operation

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FABRICATION EQUIPMENT

WELDING



Plasma-arc cutting machine

- digital control
- steel plate thickness: 5 35 mm



Shot-blasting machine

- steel balls Ø0,8..1,0mm
- surface quality SA 2.5

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Automated welding line of I and H section beams fabrication Web height: 180 - 1500 mm Web thickness: 5 - 32 mm Flange width: 160 - 800 mm Flange thickness: 6 - 40 mm All the operations from pre-assembling to roll straightening of beams are performed under integrated digital control



Semi-automatic assemble and weld stations



Painting and drying chamber with temperature control

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FABRICATION EQUIPMENT PROFILE SHEETS ROLL FORMING



Roof profile sheet by Andrometa has a smart shape improving water protection and consequently increasing lifetime of the roof. This effect is achieved by means of 3 special features:



1.EXTRA FOLDING OF THE EDGE Straight-lined edge ensures tight engagement of sheets and as result significant reduction of water capillary suction into the gap.



RABBET FOR GAP SEALER The rabbet enables quick and easy sealing of the sheets gap making it watertight. Thick pore of sealer ensures leak proof gap.



3. MINI CHANNEL FOR WATER EVACUATION

The channel eliminates water penetration inside building. Water is channeled out due to slope of the roof.

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ISSUED PATENTS



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INTRODUCTION

Andrometa is pleased to introduce a new series of commercial buildings STERK[®] with entirely galvanized steel framing.

The series was created as a result of more than 20 years successful experience in the metal building industry.

These light gauge steel buildings of next generation were engineered at a ground of real builders practice learning, innovative design solutions, and state of the art manufacturing capabilities.

STERK[®] is a line of pre-engineered buildings with structural frameworks assembled of cold roll-formed galvanized elements only.

The STERK[®] concept is based at cost efficiency combined with high reliability and multifunctional use of buildings.



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STERK® SERIES



APPLICATIONS:

- Industry: plants, production halls, workshops, hangars
- Agriculture: poultry-houses, cowhouses, dairy farms, piggeries, fish farms, cuniculturehouses, hothouses, vegetable storages, halls for agricultural raw processing
- Logistics: storage buildings, warehouses, distribution centers
- Car business: dealership halls, service centers, parks
- Retail: supermarkets, exhibition rooms, shops
- Halls for sports and entertainments
- Offices and multifunctional public buildings
- Social buildings: dining halls, refectories, school gymnastics halls and others



BENEFITS:

- Entirely galvanized steel framing
- Highly prefabricated components
- Bolt connections only. No welding
- Fire resistance: 15 minutes (R15) without protection
- Easy and fast erection
- High accuracy of all components
- Reduced erection manhours and crane hours
- Light weight foundation
- High seismic resistance
- Durability and safety
- Reuse of constructions is available
- Environmental friendly (recycling of steel is available)

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PERFORMANCES

- Clear span length: 12, 15, 18, 21, 24 m
- Eave height: from 3 to 12 m
- Bay spacing: 6.0, 4.5, 3.0 m
- Building length: up to 198 M

- Snow load: from 0.8 kPa to 4 kPa (I-VI snow regions in terms of Russian building codes)
- Wind load: from 0.17 kPa to 0.48 kPa (I-IV wind regions in terms of Russian building codes)
- Seismic load: up to magnitude of 9 in terms of MSK-64 scale
- Working temperatures: from 50°C to +50°C
- Fire resistance: 15 minutes (R 15 or IV-th category in terms of Russian building codes)

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STERK[®] series enables significant saving of all items of expenses: materials, man hours, transport and construction technique. Smart highly prefabricated elements can be assembled easily and quickly ensuring cost savings in labor. Light weight of structure is resulting in reduction of expenses for foundations. Possibility of tight packaging of linear elements leads to cutting down costs for their transportation to site of construction. Additional reduction of expenses is due to elimination of welding routines and reduction of crane works. Short schedule of erection provides accelerated revenue stream to owners and developers.



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All the members of STERK[®] framing are made of high-quality hot galvanized steel (S 350 with Zinc coating of 275 g/cm²). Framing is being assembled by means of bolt connections only. Welding is completely eliminated. Junctions of members are solved without connection plates of ferrous steel that improves corrosion protection and ensures long lifetime of the framing.

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EPK®



здания СТЕРК® огнестойкость R15

In the Russian market STERK® is the only series of buildings with cold formed steel framing having officially proved R15 (15 minutes) rate of fire resistance. According with Russian safety regulations that enables its use without special fire protection for premises of IV-th fire resistance category.

> МИНИСТЕРСТВО РОССИЙСКОЙ ФЕЛЕРАЦИИ ПО ДЕЛАМ ГРАЖДАНСКОЙ ОБОРОНЫ. ЧРЕЗВЫЧАЙНЫМ СИТУАЦИЯМ И ЛИКВИДАЦИИ ПОСЛЕДСТВИЙ СТИХИЙНЫХ БЕДСТВИЙ

Федеральное государственное бюджетное учреждение «Всероссийский ордена «Знак Почета» научно-исследовательский институт противопожарной обороны» (ФГБУ ВНИИПО МЧС России)

УТВЕРЖДАЮ Заместитель начальника ФГБУ ВНИИПО МЧС России доктор технических наук Иссец И.Р. Хасанов 2013 г.

ЗАКЛЮЧЕНИЕ

по оценке огнестойкости стальных несущих конструкций зданий серии "СТЕРК" с пролетами 12-24 м и высотой 3-8,4 м. возводимых из легких металлических конструкций (ЛМК) по технологии ООО "АНДРОМЕТА" (дог. № 2123/Н-3.2 от 24.12.2012 г.)

МОСКВА 2013

Начальник отдела ФГБУ ВНИИПО МЧС России кандидат технических наук

А.А. Косачев

7. Выволы

Проведена работа по оценке огнестойкости стальных несущих конструкций зданий серии "СТЕРК" с пролетами 12-24 м и высотой 3,0-8,4 м, возводимых на основе легких металлических конструкций (ЛМК) по технологии ООО "АНДРОМЕТА", по результатам которой установлено:

 фактические пределы огнестойкости рассматриваемых стальных несущих конструкций зданий серии "СТЕРК", при условии создания в расчетных сечениях конструкций напряжений, соответствующих их проектным значениям, согласно расчетам заказчика на основании СП 20.13330.2011 "Нагрузки и воздействия" (см. п. 4 настоящего заключения и обязательное приложение А), а также узлов их крепления и сочленения, составляют не менее R 8;

- в соответствии с требованиями п. 5.4.3. СП 2.13130.2013 допускается их эксплуатация на объектах без применения огнезащиты при установленном требуемом пределе огнестойкости R 15.

Заместитель начальника отдела кандидат технических паук

А.В. Пехотиков

Начальник сектора

В.В. Павлов

Всего листов 80. Лист № 21.

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Design solutions of the STERK® framing provide easy building-in of climatic and lightening equipment, video monitoring, firefighting, burglar alarm and other engineering systems. Bottom load-bearing chords of trusses are suitable for use as supports of water and air supply pipelines.



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Wide range of serial building dimensions and modifiable layouts enable convenient and efficient customization of the interiors according to manufacturing process.



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Being a system of pre-engineered structures and having large set of options STERK® gives a possibility to configure buildings of various performances according to customer 's needs. STERK® solutions are equally efficient both for large-scale and small business buildings.



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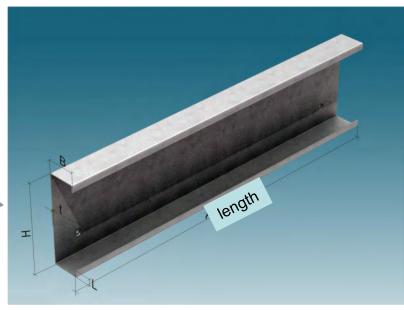
Profiles



Sizes of profiles:

- steel thickness: from 1,2 to 3,5 mm;
- profile height H: from 100 to 380 mm;

Loadbearing framework of the STERK® building is completely made of cold roll formed galvanized steel profiles.



width of flanges B: from 50 to 125 mm;

fold L: from 10 to 35 mm.

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MEMBERS

АНДРОМЕТА

The STERK® frameworks are being supplied on site in a form of completely ready for assembling linear members that are tightly packed into space-saving batches. Weight of a batch does not exceed 3 tons. Delivery set also includes joint angles of galvanized steel and fasteners (galvanized bolts).





All the elements are prefabricated to structural tolerances and have notches, holes and marks ensuring easy and correct installation of each member into structure (measurements and fit-up are eliminated) and its junction to another members.

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BASIC JOINTS



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EXAMPLES OF CONNECTIONS











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FRAME SYSTEM



The STERK® frames consist of trusses and columns with pinned connections. **Connections of** columns and end walls studs with foundations are fixed. Lateral stability of structure is ensured by stiffness of frames, and longitudinal stability is provided by the system of straining wind bracings and distance pieces.

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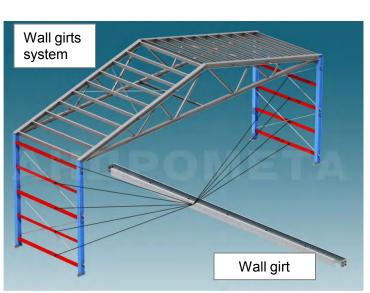
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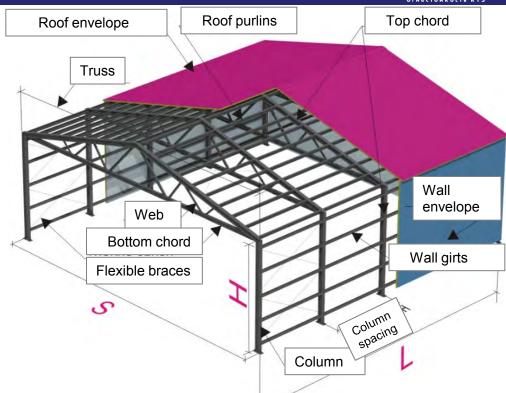




PRIMARY STRUCTURE

- The STERK® primary structure comprises:
- frames consisting of trusses and columns;
- roof purlins system;
- bracing sections;
- space stiffness members.





SECONDARY STRUCTURE The secondary structure includes:

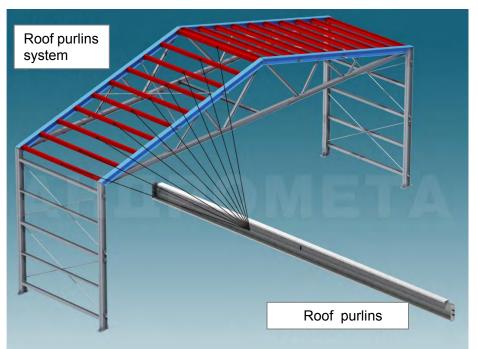
- wall girts supporting envelope structures;
- framing of openings (windows, doors, gates);
- framing of optional elements (for example, ligtingand ventilation-ridges).

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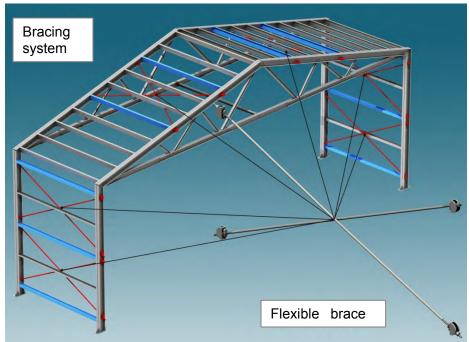






Bracing members are flexible. They are made of steel rods and installed by straining by means of turnbuckle screws.

The stiffness of structure is ensured by the system of horizontal braces, distance pieces and roof purlins; the stiffness of gables is provided by the system of vertical braces and distance pieces of studs.



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PRE-ENGINEERED STERK® STRUCTURES

Spans: 21 m and 24 m

Spans : 12 m, 15 m and 18 m

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INSTALLATION

- Connections by bolts of B stress class in terms of DIN 933 that are included into delivery set
- Minimal number of connections
- All the members are marked and have mounting holes
- Holes positioning tolerance ±1 mm





- In some cases mounting with no crane is available due to light weight of structure members
- Sectional mounting can speed up the erection process

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Pre-engineered structural systems

The benefits of pre-engineered structural systems are saved customer's money for their acquisition and reduced time of delivery. Such buildings are completely pre-engineered so expenses for structural design works are eliminated. Structural system consists of standardized components that either are available at the store or can be quickly fabricated. Additional reason to choose pre-engineered structure is that similar one has already been constructed anywhere and trusted its efficiency and reliability.



Tailored buildings (specific designed structures)

Experienced designers of Andrometa LLC are able to create the most sustainable solution of structure that will suite all customer's requirements irrespective of sophistication and size of the building. And our high-tech equipment will produce all the components of the structure accurately and quickly. The benefits of tailored structures are perfect compliance with technical and functional requirements of the project that will decrease expenses for adaption of the building to functional needs and minimize investment risks and payback period.

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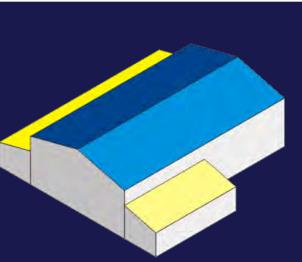
STERK® SERIES



Single-span structures
Span sizes: 24; 21; 18; 15; 12 m*)
Useful height: from 3
to 12 m*)
Bay spacing:
6; 4.5; 3 m*)
Structures with mezzanine floors
Structures with mezzanine floors Span sizes: 24; 21; 18; 15; 12 m*)
Span sizes: 24; 21; 18; 15; 12 m*)
Span sizes: 24; 21; 18; 15; 12 m*) Useful height:
Span sizes: 24; 21; 18; 15; 12 m*) Useful height: from 3 to 12 m*)
Span sizes: 24; 21; 18; 15; 12 m*) Useful height: from 3 to 12 m*) External bay
Span sizes: 24; 21; 18; 15; 12 m*) Useful height: from 3 to 12 m*) External bay spacing: 6; 4.5; 3 m*)

Structures with overhangs Span sizes: 24; 21; 18; 15; 12 m*) Useful height: from 3 to 12 m*) Bay spacing: 6; 4.5; 3 m*) Overhang sizes: upon request

Wing unit structures Span sizes: 24; 21; 18; 15; 12 m*) Useful height: from 3 to 12 m*) Wing unit sizes: upon request



*) another size available upon request +7 484 395 21 21

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Multi-span structures

- Span sizes: 24; 21; 18; 15; 12 m*)
- Number of spans:

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- from 1 to 6*)
- Useful height:
- from 3 to 12 m*)
- Bay spacing:
- bay spacing
- 6; 4.5; 3 m*)

Multi-span structures with common gable roof

Span sizes: as specified Useful height: from 3 to 12 m*)

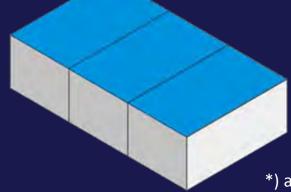
Bay spacing:

6; 4.5; 3 m*)

Multi-span structures with flat roof

Span sizes: 24; 21; 18; 15; 12 m*) Number of spans: from 1 to 6*) Useful height: from 3 to 12 m*)





*) another size available upon request

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Framework delivery Delivery set:

- primary structure;
- wall girts system;
- framings of openings;
- set of fasteners and anchor bolts;
- technical specification, assembling manual and drawings;
- scheme of foundation loads





Delivery set:

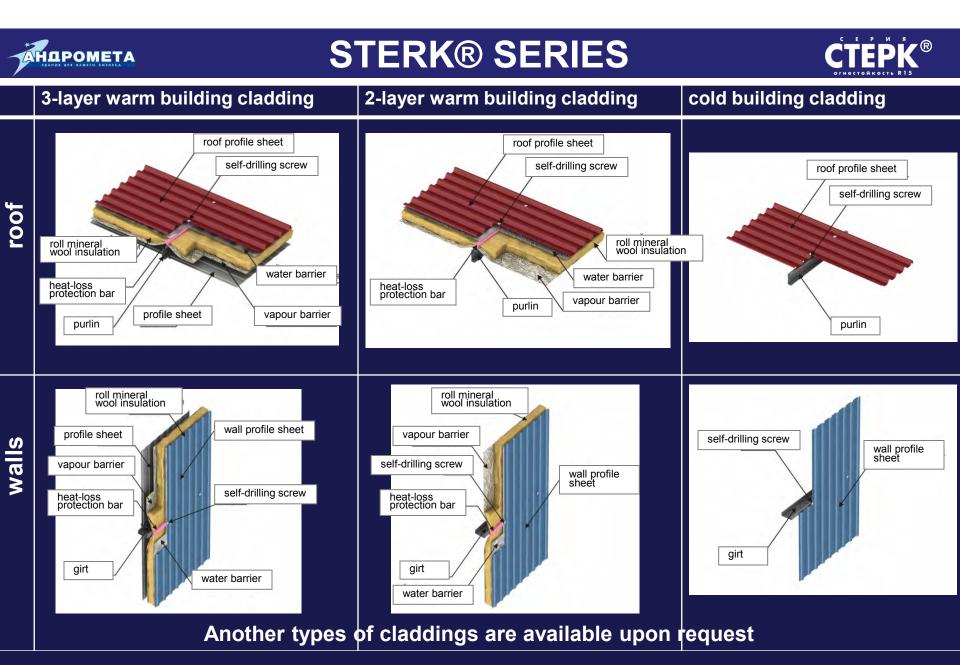
- framework as specified below
- cladding structures:
- profile sheets with/without insulation of mineral wool
- or sandwich panels upon request
- windows, doors and gates upon request



The wall and roof profiled sheets by Andrometa is the best choice for commercial building external cladding.
3 smart features of sheet profile provide easier assembling and better water protection of your building.

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Site of construction: Kaluga region Year of construction: 2013



Cowsheds

Dimensions: 34,8*126 *3,7 m Number of spans: 3 Bay spacing: exterior- 3m, interior– 6 m



Calf sheds Dimensions : 31,35*138*3,7 m Number of spans: 3 Bay spacing: exterior- 3 m, interior- 6 m

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Includes 7 buildings

of various special functions



Maternity barn Dimensions : 23,96*59,5*4,1м Number of spans: 3 Bay spacing: 6м

Multifunctional building (milking barn combined with offices) Dimensions : 24,32*66*6,7/4,8 m Number of spans: 3 Column grid distances: 12,16 * 6m Number of floors: milking barn - 1, offices -2





Small calf shed Dimensions : 18,1*138*3,7 m Number of spans: 3 Bay spacing: exterior- 3m, interior- 6 m

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Cowshed for 350 heads Site of construction: Kaluga region Year of construction: 2014 Dimensions : 34 * 84 * 4 m Number of spans: 2 Bay spacing: 6m

the state

Cowshed for meat production farm

Site of construction: Tver region Year of construction: 2014 Dimensions: 18x120x4,65 m Number of spans: 1 Column spacing: 6м

Automated milking unit

Site of construction: Kaluga region Year of construction: 2014 Dimensions : 16 * 32 * 3,5 m Number of spans: 1 Bay spacing : 6м



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Warehouse for shelf storage Site of construction: Moscow region Year of construction: 2015 Dimensions : 24 * 62 * 8 m Number of spans: 1 Bay spacing: 6 m and 2 m

Storage building Site of construction: Moscow region Year of construction: 2014 Dimensions : 33* 44* 6 m Number of spans: : 2 Bay spacing: 4,5 m





Pharmaceutical warehouse Site of construction: Moscow region Year of construction: 2013 Dimensions: 24*60*7.2 m Number of spans: 1 Bay spacing: 6 m

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Logistic complex Site of construction: Kaluga region Year of construction: 2011 Dimensions : (2*18) * 52.4 * 6 m Number of spans: 2 Bay spacing: 3 m

Складское здание Site of construction: Moscow region Year of construction : 2013 Dimensions : 24 * 60 * 6 m Number of spans : 1 Bay spacing : 6 m





Склад FMCG Site of construction: Kaluga region Year of construction : 2012 Dimensions : 18 * 99 * 5,4m Number of spans : 1 Bay spacing: 3 m

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MAPOMETA STERK® SOLUTIONS PORTFOLIO

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Production complex

Site of construction: Moscow region

Year of construction: 2014

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Dimensions : 18* 54 * 6 m Number of spans : 1 Bay spacing : 6 m

11:111

Dimensions : 24 * 60 * 7,2 m Number of spans : 1 Bay spacing : 6 m Crane supporting structure: capacity 2 tons



Manufacturing plant

Site of construction: Kaluga region Years of construction: shop No 1 - 2012, shops No 2,3 - 2015. Dimensions of each shop: 24* 84 * 7,8 m Number of spans : 1 Bay spacing : 6 m Crane supporting structures: individual, capacity 10 tons

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STERK® SOLUTIONS PORTFOLIO CTEPK

Manufacturing and storage complex. Site of construction: Kaluga region





Manufacturing shop with crane Site of construction: Moscow region Year of construction: 2014 Dimensions : 18 * 42 * 6,56 m Number of spans : 1 Bay spacing : 6 m Crane supporting structures: individual, capacity 6,3 tons

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Mini shop Site of construction: Kaluga region Year of construction: 2013 Dimensions: 12 * 30 * 4,8 м Number of spans : 1 Bay spacing: 6 m



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Manufacturing shop Site of construction: Moscow region Year of construction: 2015 Dimensions: 18 * 40 * 6 м Number of spans: 1 Bay spacing: 6 m and 4 m



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Manufacturing building

Site of construction: Kaluga region Year of construction: 2013 Dimensions: 18 * 36 * 6 м Number of spans : 1 Bay spacing : 6 m

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KHAPOMETA STERK® SOLUTIONS PORTFOLIO



Car service center Site of construction: Moscow region Year of construction: 2014 Dimensions : 18* 52* 6 m Number of spans: 1 Bay spacing: 6 m

Car service workshop Site of construction: Moscow region Year of construction: 2015 Dimensions : 12 * 60 * 4,8 m Number of spans: 1 Bay spacing: 6 m





Car service workshop with mezzanine Site of construction: Moscow region Year of construction: 2015 Dimensions: 15* 18* 6.6 m Number of spans: 1 Bay spacing: 6 m

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Structure: hybrid (welded and cold formed)

Multifunctional building (manufacturing shops combined with offices) Site of construction: Kaluga region Year of construction: 2014 Dimensions: 28.34*3.8*6.19 m Number of floors: 2; heightening up to 4 floors is

available

Retail complex

Site of construction: Moscow region Year of construction:2015 Number of units: 2 Dimensions of a unit: 24 * 30 * 9,6 m Number of floors: 2 Structure: hybrid (welded and cold





Show room

Район строительства: Московская область Год строительства: 2015 Размеры: 12 * 48 * 6м Число пролетов: 1 Шаг колонн: 6 м

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AHAPOMETA STERK® SOLUTIONS PORTFOLIO



Супермаркет «Пятерочка» Район строительства: Московская область Год строительства:2014 Размеры: 28.5 * 24 * 3.5 м Число пролетов: 2 Шаг колонн: 6 м



Супермаркет «Магнит» Район строительства: Московская область Год строительства:2014 Размеры:18 * 52 * 3 м Число пролетов: 1 Шаг колонн: 6 м и 4 м



Магазин

Район строительства: Московская область Год строительства:2014 Размеры:15 * 20 * 3 м Число пролетов: 1 Шаг колонн: 6 м

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STEELTOWN® TECHNOLOGY



The STEELTOWN[®] concept is based at composition of patented load-bearing structure consisting of cold roll formed galvanized steel members only and high-efficient insulation materials as cellular concretes and mineral wood.

Using of the STEELTOWN[®] solutions provides integrated cost efficiency, significant speeding-up of construction and superior quality meeting the highest modern expectations. Andrometa LLC presents an innovative cost-saving building technology STEELTOWN® for construction of residential and public buildings with light steel frameworks. The technology is grounded at the best world steel construction practice enriched with new solutions of Andrometa's engineering team working in co-operation with leading Russian institutions of construction industry as V.A.Kucherenko's Central Science and Research Institute for Building Structures (TSNIISK), Center of Cellular Concretes (St. Petersburg).



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СТИЛТАУН®

Marometa STEELTOWN® APPILCATIONS and BENEFITS ctuntay



APPILCATIONS

- Residential buildings up to 6 storey
- Educational buildings: schools , kindergartens, campuses
- Office buildings
- Hotels and hostels
- Hospitals

THE MOST PROFITABILITY OF LIGHT STEEL FRAMING TECHNOLOGY CAN BE ACHIEVED IN COMPLEX DEVELOPMENT PROJECTS INVOLVING RESIDENTIAL AND ALL THE PUBLIC AND COMMERCIAL BUILDINGS FOR INHABITANTS NEEDS. THE TECHNOLOGY GIVES A POSSIBILITY TO CONSTRUCT ENTIRE SETTLEMENT QUICKLY AND WITH MINIMAL EXPENSES. SUCH WAY OF STEELTOWN[®] SOLUTIONS UTILIZATION WILL PROVIDE SIGNIFICANT COST EFFICIENCY AND ACCELERATED REVENUE STREAM TO DEVELOPERS.

BENEFITS

- Saving of labor, materials and power expenses
- Accounting of all expenses are simplified
- Construction schedule is 1.5 2 times shorter
- Construction routines don't depend on whether
- Less expenses for foundation due to reduce of total tonnage of structure
- Structural system is suitable for almost any application
- Variety of architectural and interior ideas can be realized
- Sustainability, high seismic and fire resistance
- Cost-saving construction at rough geodesic conditions
- High reliability and long lifetime
- Less power consumption during life cycle
- Environmental and health safety

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Маромета STEELTOWN® TECHNICAL PARAMETERS стилтаун®

- Number of floors: 1 6
- Floor system clear span: up to 8,5 m
- Snow load: from 0.8 kPa to 3.2 kPa (I-V snow regions in terms of Russian building codes)
- Wind load: from 0.17 kPa to 0.48 kPa (I-IV wind regions in terms of Russian building codes)
- Seismic load: up to magnitude of 9 in terms of MSK-64 scale
- Working temperatures: from 50oC to +50oC
- Fire resistance: 90 minutes (REI 90 in terms of Russian building codes)



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COMPARISON WITH TRADITIONAL SOLUTIONS chuntayh

Performances of STEELTOWN® light steel framing technology as compared with conventional ones

Performance	STEELTOWN®	Masonry	Cast-in-place concrete	Concrete panelized structure
Average time of 6-storey building construction	4-6 months	10-12 months	8-10 months	6-8 months
Average ratio of total construction costs	1	2	1,5	1,2
Average ratio of finish works costs	1	1,5	1,5	1,5
Average ratio of man-hours	1	2	1,5	1,2
Average ratio of power consumption for heating during life cycle	1	1,5	1,3	1,3
Light foundation	YES	NO	NO	NO
Season dependence of construction costs	NO	YES	YES	YES
Low cost construction in rough climate conditions	YES	NO	NO	NO

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Пр ста опа

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FIRE RESISTANCE

The STEELTOWN® walls and floors structural systems are certified for compliance with requirements of Russian building codes GOST 30247.0-94 and GOST 30247.1-94 to buildings of 1-th fire-resistant category.

	Uli		
-	ОГНЕСТОЙКОСТЬ» икация в области пожарной безопасности	ИЦ «Огнестойкость»	
ЗАО «ЦСИ «Огнестойкость»		Силалла сертификации в объесни ножарной болоно пости	СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ В ОБЛАСТИ ПОЖАРНОЙ БЕЗОПАСНОСТИ
Аттестат аккредитации	ТРПБ.RU.ИН27 от 07 октября 2010 г. до 06 октября 2015 г.	ЗАО «ЦСИ «Огнестойкость»	регистрационный №РОСС RU.M704.04ЮАБ0
		Самдетельство о тактоверскоровая хамостептоваетора № НСОНЦ. ЮЛЕО RU-HELHP. 924.3 От 18 секстру 2014 г. док 17 горовария 2017 г.	СЕРТИФИКАТ СООТВЕТСТВИЯ
	«УТВЕРЖДАЮ»	THE PARAMON	НСОПБ.RU.ПР019/2.Н.00406 009874
	Рукованитель и Советойкость» 250 ЭЦСВ Аргистойкость» П.А. Сидоренко Сире достато 2012 г.	Propagation and MARIAN Descriptions in an ACCEPT Charles Concentration of the Concentration o	Incontraction Operation
Протокол и	спытаний № 13 ск/и - 2012	Протокол испытаний № 16 ск/и – 2015	изполовитель механология поточка продокта продокта изположителя и поточка и ОГРН: 1084025003644. Телефон +7 (4839) 5-21-21, 5-23-23, факс +7 (48439) 5-24-24.
наименование продукции:	Плита перекрытия монолитияя железобетонияя толщиной 328 мм с каркасом из стальных профильных С-обраных зменентов АС 1504/51.6 и заполнением из пенейства в несейсной опалубке из СМЛ 12.5 мм, СТО 82866678-2.03-2011 и СТО 82866678-30-2011	ИАПМЕНОВАЮЮ: Стопа несущая полияной 190 мм с каркаеом и стальных ПРОДУКЦИИ: профильных Собранных засчентов АС 150 а53 1,6 и закоспеснием из пенобелова дленностью не менес 200кг/м ² о несьёчной опланУвсе из СМЛ 10 мм, СТО 825м6678-2.03- 2011 и СТО 82866678-3.01-2011	OPTAILIDCEPTINGHIKAUUH OOO of Desc'entageny, streeter associationation the HCOIIE compression associationation inpublic compression inpublic association in the inpublic association in the inpublic compression in the inpublic association in the inpublic association in the inpublic compression in the inpublic association in the inpublic association in the inpublic compression in the inpublic association in the inpublic association in the inpublic association on the inpublic association in the inpublic association in the inpublic association on the inpublic association in the inpublic association in the inpublic association on the inpublic association in the inpublic association in the inpublic association on the inpublic association in the inpublic a
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СТИЛТАУ

DURABILITY

СТИЛТАУН

Федеральное учреждени Национальный г



Заключение № 036/15-503

«Исследование коррознонной стойкости и долговечности карккаов зданий серин СТИЛТАУН®: 6-ти этажный трехсекционный жилой дом и 4-х этажный трехсекционный жилой дом, расположенные по адресу л. Кривское Боровского района Клаужской области, ул. Центальная, л. 61 и д.63э

17. Поторитествляется по католному механизму, при этом клага иклается электролитом, а пинк, палюнийса внодом по отношению к стали, растворяется, лишицая стальную осному от воздействия агрессивной орсан. Визмаяе надет расход ципка с образованием белых продуктов корронии. По мере уменьшения ципкового слоя его защитивое действие уменьшется и начинается процесс окисления стали, сопровожляющийся формированиов окасне железа в виде кресой ражичных.

Как поязнали теллогехнические иссладования, в пенобетонном слое в процессе якенлуатации защия отсутствует возможность конденсации ваати на металолонструкние Анпросекзования корролонного поряжения ца дл. дительный срок оксплуатации поланяет установить, что скорость корролии горячего шинкового покрытия в вышеуказанных условиях при сухой яли пормальной алкяюстся составит не болсе 0,5 мым/год в носедующие годы в сечение первых 2-5 лет эксплуатации и уменьшится до 0,3 мым/год в последующие годы за счет роцессов свободной корролии и образования защитиой пленки на поверхности шины. Следовательно, за 50 лет реальной эксплуатации максимальное уменьшение топщины слющина шинкового покрытия касса 2275 составает 18 мм. Таким образов, с учетом женерименталько подученных результатов рекомендуется применение песледуемой галам мях S50GD с шинковым пократитем какса 2275 без дополнительных мер протиковоротовыми защити дая изготовления несущих конструкций карыза, кармас спиЛТАУН& со сроком эксплуатание боле с до лет.

В результате проведениях коррознопиях песледований, оценки качества и скоро и королини материкав каркасов зданий серин СТИЛТАУНВ (6-ти этаканого прессесныя иного жилого дома и 4-х этакного трессепционного жилого дома, расположенных по десу а. Крипское Боронского района Казумской области, ул. Центральная, д. 61 и д.63) гавиовлено, что исследованные конструкции, иготоквенные из стали марки \$3500D с шиховым покрытием сласса Z275 топщиной и ве меще с 19 мкм, устойчивы к коррозии в игот экцисти у таки, и торонанская и разлика и стал.



Researches of the material properties and rate of corrosion of load-bearing frameworks of 6-storey 3-section and 4-storey 3-section STEELTOWN® buildings (location: 61 and 63, Central Street, Krivskoye, Kaluga Region) have showed that the structures made of S350GD steel with Z275 coating (no less 19 mkm thickness) are resistant to corrosion. Durability of the framework encased in cellular concrete slab is estimated as more than 50 years.

В результате проведенных коррозионных исследований, оценки качества и скорости коррозии материала каркасов зданий серии СТИЛТАУН® (6-ти этажного трехсекционного жилого дома и 4-х этажного трехсекционного жилого дома, расположенных по адресу д. Кривское Боровского района Калужской области, ул. Центральная, д. 61 и д.63) установлено, что исследованные конструкции, изготовленные из стали марки S350GD с шиковым покрытием класса Z275 толщиной не менее 19 мкм, устойчивы к коррозии и могут эксплуатироваться в среде пенобетона сроком более 50 лет. Researches of durability and corrosion resistance of STEELTOWN[®] load-bearing structures were carried out by the Department of protection surface treatment at Moscow institute of steel and alloys "MISiS", the leading Russian scientific center in a field of steel protection. Samples of structures consisting of galvanized steel and cellular concrete were subjected to accelerated impact of atmosphere at simulation chambers. The tests showed corrosion resistance of structures. Their lifespan was estimated as more than 50 years.

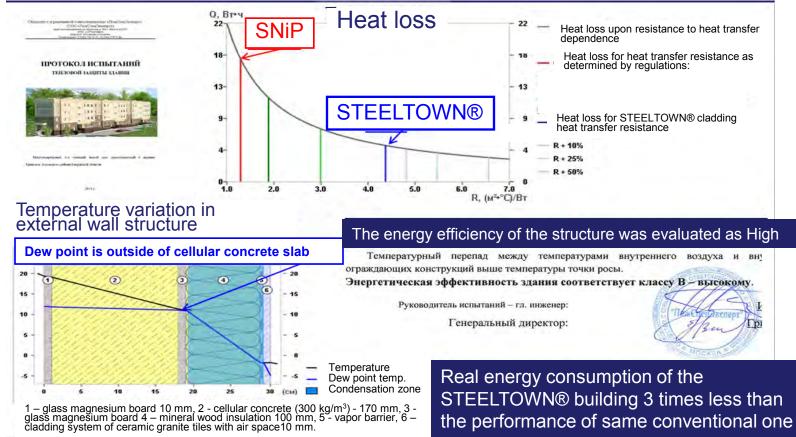
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АНДРОМЕТА

ENERGY EFFICIENCY

Field tests of thermal transmission of STEELTOWN[®] 4-storey condo built in 2014 in Kaluga Region showed that the multilayer external wall structure has 2 times higher resistance to heat transfer and nearly 3 times less heat loss than it's required by Russian building regulations SNiP 23-02-2003.

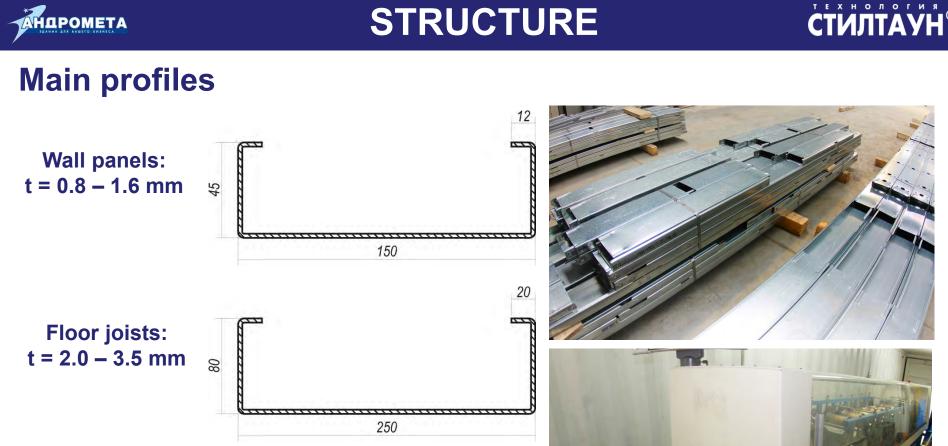


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СТИЛТА



The STEELTOWN® load-bearing structure consists of cold roll formed C-sections of 0,8..3,5 mm thickness and 100..400 mm height. All the framework members are made of high-quality hotgalvanized steel S350GD with Zinc coating Z275 according to EN 10346.

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Plant operations



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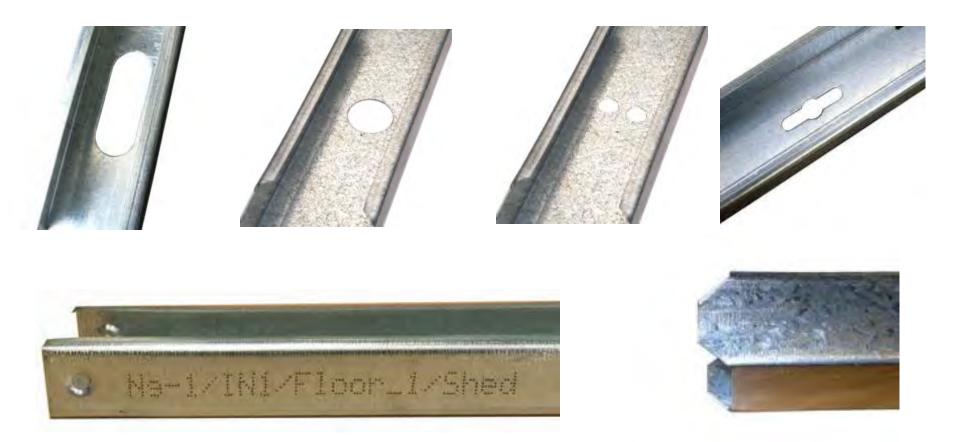
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Plant operations



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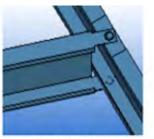
Стилтаун®

Basic joints

The framework connections are made by self-drilling screws. All the members are marked to simplify assembling routines.



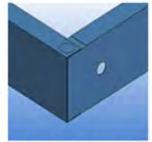
0010 Swaged joint



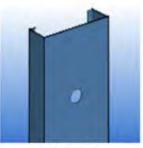
0020 Notched joint







0050 Swaged corner with 2 lifting holes

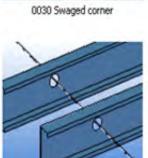


0120 Lifting hole



0060 Continous joint

0200 Bracket hole



0100 Serviceholes



0300 Floor Truss Standard

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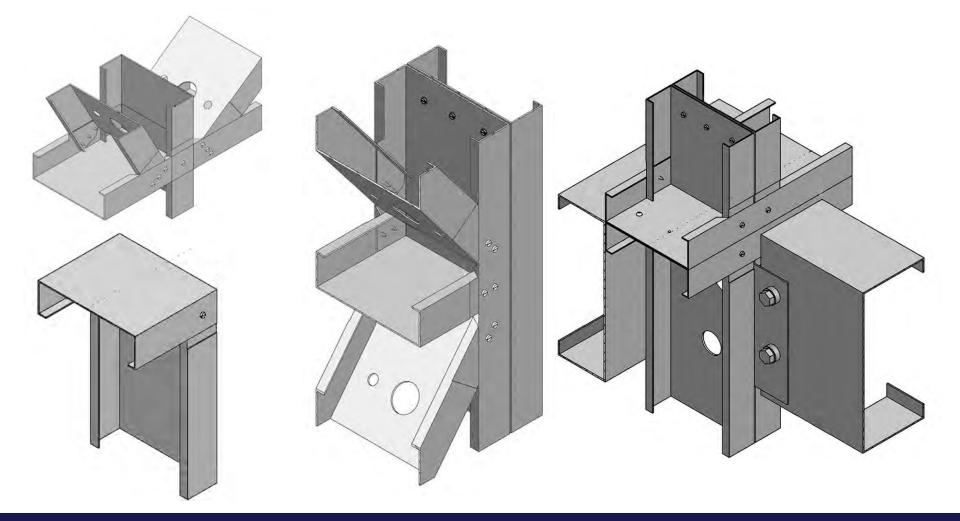
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Examples of joints



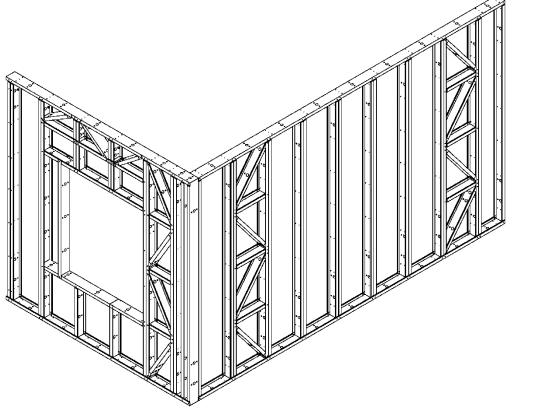
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The wall panel framing



The panel framing consist of studs and tracks with diagonal details providing stiffness of each panel and contributing to the global stability of the structure.

The load-bearing wall panels are assembled of linear members made of cold formed C-shaped profile.

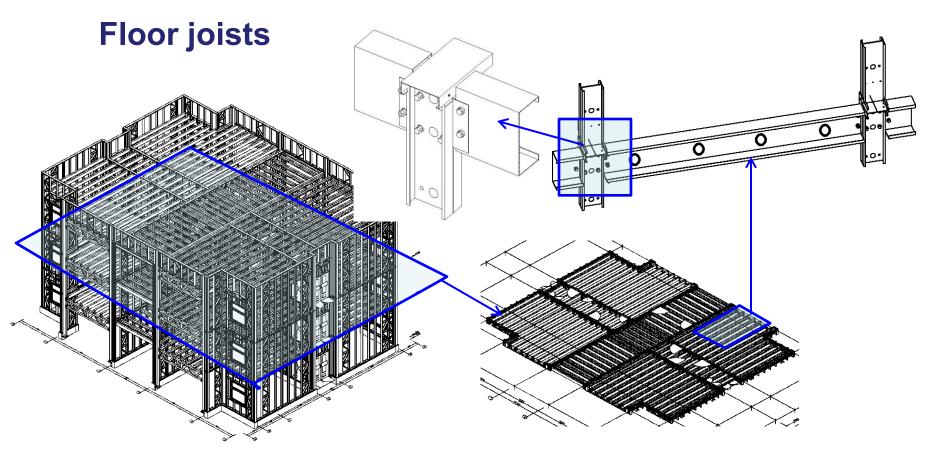


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The load-bearing floor joists are usually in a form of galvanized C-shaped beams corresponding to extarnal loads. Service holes of 120 mm diameter are punched at the webs of beams.

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Roof trusses

Roof load-bearing structure often consists of trusses of triangular shape made of cold roll formed galvanized steel



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ASSEMBLING



Wall panels and roof trusses are assembled of linear elements. Depending on chosen mode of construction both onsite and offsite assembling of panels are available.



Each linear detail is manufactured to length and has prefabricated holes, notches and marks designated for its direct installation to panel (with no any measurements or treatment) and its junction to neighbor details of the framing. Panels are assembled by self-drilling screws and panel to panel junctions are made by either self-drilling screws or bolts.

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ASSEMBLING





The framework of ground floor is assembled by installation of panels in compliance with erection drawings and their subsequent junction with other panels to form braced structure of ground floor. Than second floor joists are installed. The walls of each floor are installed using previous floor as a base.

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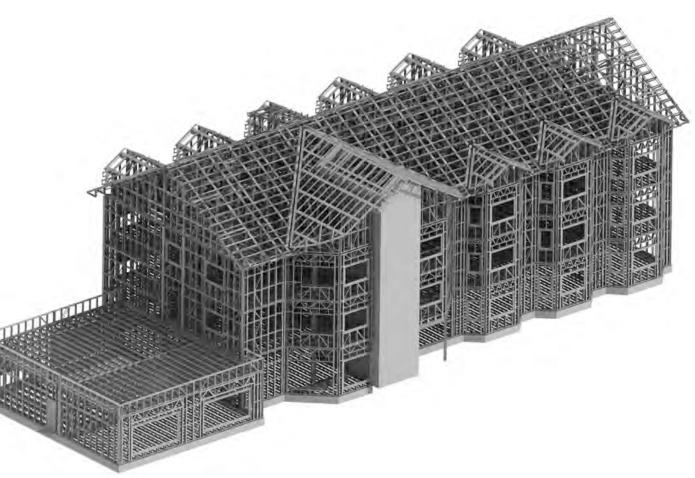
FRAMEWORK

СТИЛТАУН®

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The STEELTOWN® structure is an innovative integration of cold roll formed galvanized steel framing and cellular concrete infill ensuring the most rational utilization of each material performance benefits. The STEELTOWN® structural system is designed in accordance with European design codes and is suitable for residential and public multistory buildings up 6 floors.

НДРОМЕТА



Unification of all the structural details enables quick design, fabrication and erection of building leaving a wide space for architectural solutions and exterior finishes.

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FRAMEWORK



STEELTOWN® framework is a load bearing structure. Its dimensional stability is ensured by internal longitudinal walls and crosswalls and horizontal floors that brace walls and act as a diaphragm to provide stability in the horizontal plane of each storey.



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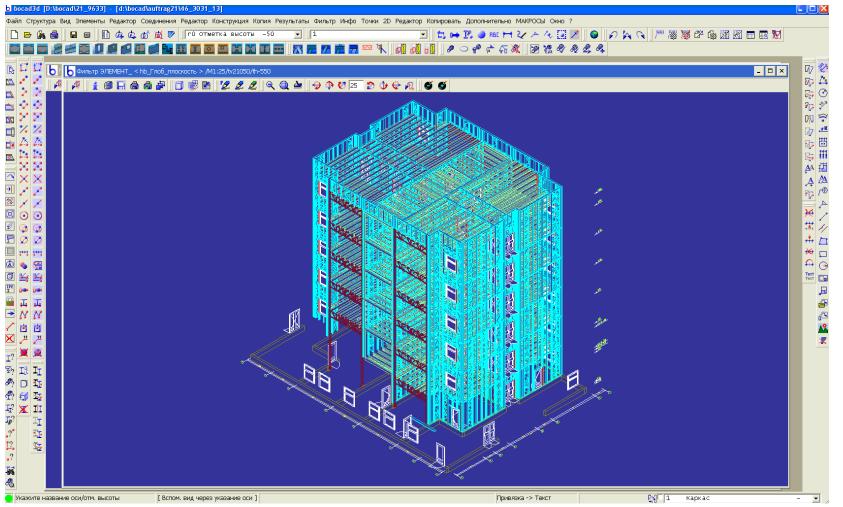
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FRAMEWORK



Design of 6-storey framework



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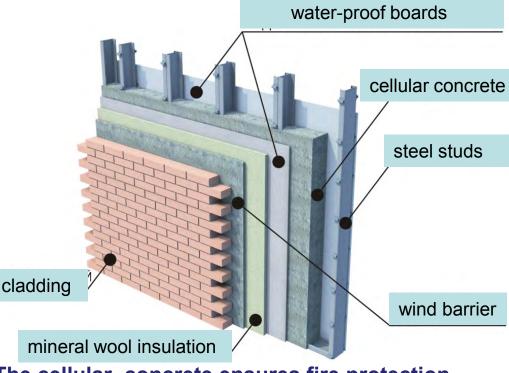




СТИЛТАУН®

Wall panel structure comprises galvanized steel framework, cellular concrete infill and water-proof boards. Boards and steel framework are separated by hat profile to make a gap for overall enclosing of steel structure by cellular concrete.





The cellular concrete ensures fire protection, acoustic ant thermal insulation of walls. The STEELTOWN® steel-concrete wall panels offers the same benefits of conventional precast concrete slabs but have several times less weight. They are underpoured onsite that reduce transport costs.

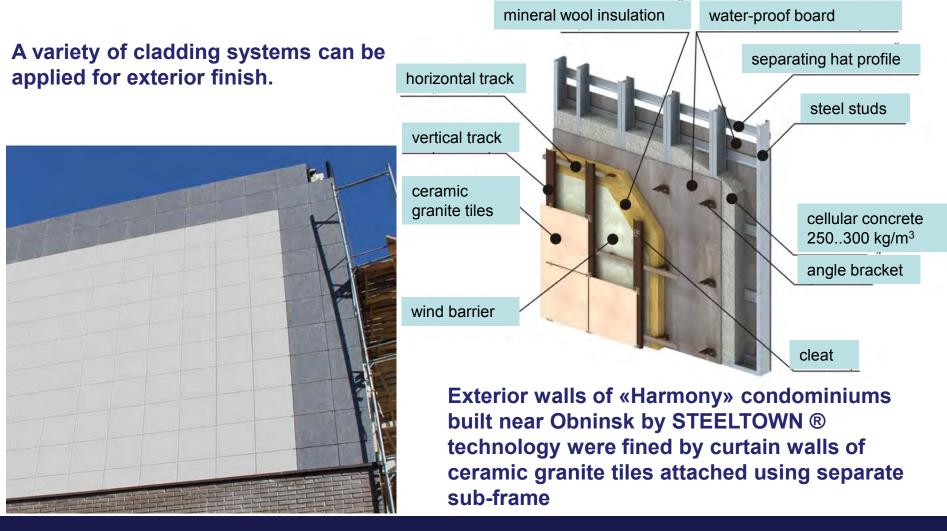
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WALLS

СТИЛТАУН®



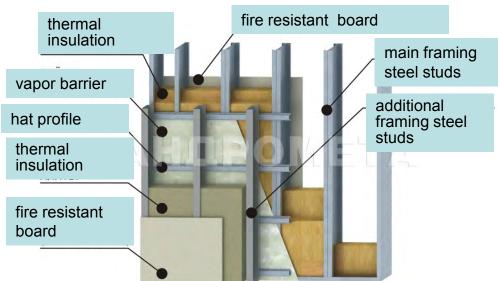
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WALLS

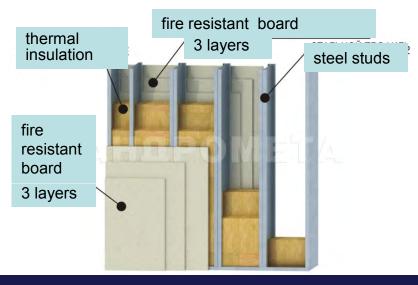
СТИЛТАУН®

Walls also can be filled by any noncombustible thermal insulation material. As usual mineral wool is applied. For external and internal cladding of walls any fire resistant boards can be applied (for example, glass magnesium, cement chipboard or plasterboard). Cladding is attached to framing by selfdrilling screws.



EXTERNAL WALL SYSTEM

INTERIOR WALL SYSTEM



To satisfy requirements of fire resistance external load-bearing walls can comprise 2 systems. The main framing is installed at outer side of the wall and additional one is placed inside. Required fire resistance of interior loadbearing walls is achieved by 3 layers of fire resistant boards. Space of panels is filled by non-combustible insulation material.

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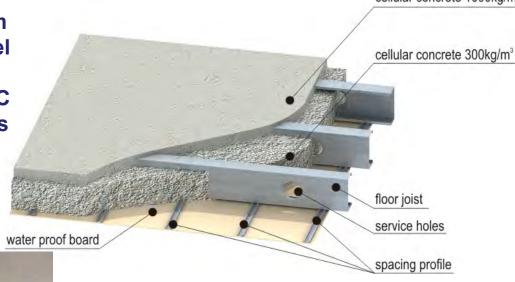
FLOORS



cellular concrete 1000kg/m³

Floor joists can be engineered as a system of beams (as usual) or trusses with parallel chords.

Patented floor structure by Andrometa LLC performs superior combination of stiffness and strength ensured by steel framework and high thermal and acoustic insulation properties and fire resistance of cellular concrete filling.





Benefits of the structure:

- strength and stiffness performances enough for multistory structures
- low expenses for construction due to quick and simple installation
- compliance to fire resistance requirements
- eliminated waste of materials
- excellent high to weight ratio

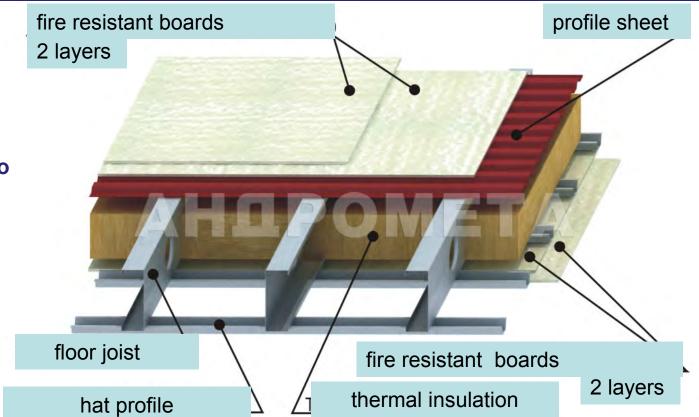
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FLOORS

The STEELTOWN® technology enables to apply dry floor structure using rigid non-combustible thermal insulation (generally mineral wood).

НДРОМЕТА



Stiffness of the floor and transfer of imposed load to the framework is achieved by decking of profile sheet. Two layers of non-combustible boards ensure fire and acoustic protection. Space between floor joists is filled by thermal insulation. Ceiling comprises 2 fire resistant boards (glass magnesium board, chipboard, plasterboard etc.) mounted at another side of the floor structure and spaced by hat profile.

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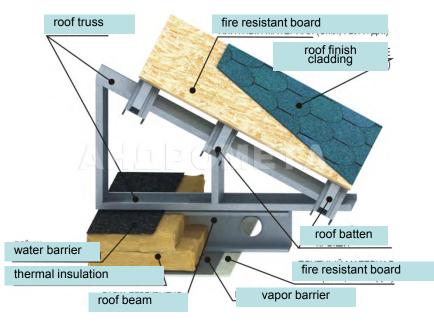
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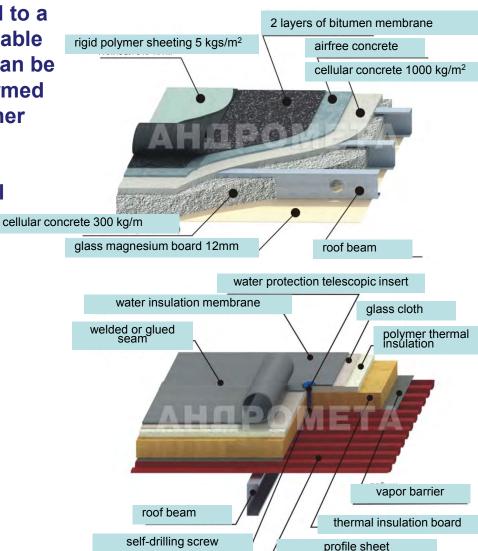
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ROOF

ҀҭӤӆҭѧ҄ѵӥѫ

The STEELTOWN® roofs can be manufactured to a wide range of shapes including gable, cross gable or flat roofs. The roof load-bearing structure can be performed as trusses or beams of cold roll formed galvanized steel. Roof can be insulated by either cellular concrete or rigid thermal insulation material. Choice of roof cladding material is determined only by aesthetic and architectural demands of the customer.





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FINISHING

СТИЛТАУН®

Exterior finishing

промета

Depending on customer's wishes and taste the nice appearance of STEELTOWN® building can be provided by a variety of façade systems and materials as render, curtain walls, tiles, bricks etc.





Interior finishing

Due to high accuracy of prefabricated details and subsequent erection STEELTOWN® buildings have precise geometry. It enables to decrease of finish works expenses because interior walls do not require rendering and can by just decorated with paints, wallpapers etc.

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HOME OWNERSHIP BENEFITS

ҀҬӤ҄҅ӆҭ҄ѦӰӉ

Home ownership costs of steel buildings STEELTOWN[®] are less than conventional ones due to significantly reduced expenses for heating and conditioning. Light weight of and low heat losses of the structure decreasing energy consumption twice and more.

АНДРОМЕТА

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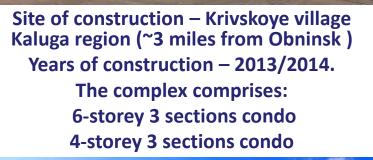


Стилтаун®





"Harmony" apartments













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СТИЛТАУН®

"Harmony" apartments

Construction area: ~ 2425 m² Total floor area : ~ 12275 m² Living area: ~ 7680 m² Total number of apartments - 179: 1-room – 120, 2-room– 59. Commercial area (offices and retail) ~ 1620 m²



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СТИЛТАУН®



The building parameters: Size: 10,55 x 49,195 M x 5,685(h) m (h – useful height) Number of floors: 2 Construction area~ 520 m² Total floor area ~ 920 m² Living area~ 800 m² Number of rooms: 49 Area of each room: ~ 16.3 m²

The complex of hostels

Year of construction– 2015

Site of construction – Kazakhstan republic, Atyrau region

Snow load: 1.8 kPa (III snow regions in terms of Russian building codes)

Wind load: 0.38kPa (III wind regions in terms of Russian building codes)

Seismic load: up to magnitude of 8 in terms of MSK-64 scale

Total area: 4 600 m²

The complex consists of 5 identical buildings



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СТИЛТАУН®

Penthouse

Site of construction – Tver city. Year of construction – 2014.

Total area : >5 500 m².

Snow load: 2,4 kPa (IV region in terms of Russian building codes)

Seismic load: up to magnitude of 6 in terms of MSK-64 scale The light steel structure has been overbuilt on very old masonry multistory house. The structure comprises a number of different interconnected substructures.

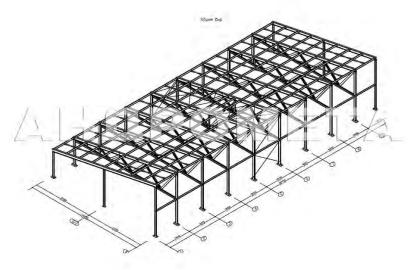


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СТИЛТАУН®



Penthouse

Site of construction – Yaroslavl region. Year of construction – 2012. Sizes: 12 x 26 x 2,3 m Snow load: 2,4 kPa (IV region in terms of Russian building codes) Seismic load: up to magnitude of 6 in terms of MSK-64 scale

The penthouse has been built at a roof of multistory masonry house and is used as a hotel.



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Residential building

Site of construction: Sochi city

Year of construction: 2013

The building has been constructed at a rough geodesic conditions as mountain landscape and high seismic loads up to magnitude of 9 in terms of MSK-64 scale.

Plane area: 180 m².

Number of floors: 1; ability of heightening to 2 floors is considered



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СТИЛТАУН®



Social condominiums

Site of construction – Voronezh region

Construction area: ~ 990 m² Total floor area : ~ 2570 m² Living area: ~ 2085 m² Number of floors: 3 Number of apartments: 53

Construction area: ~ 1780 m² Total floor area : ~ 4430 m² Living area: ~ 2140 m² Number of floors: 3 Number of apartments: 84

25



РРЕ-ENGINEERED BUILDINGS СТИЛТАУН

A range of midrise and multistory STEELTOWN[®] structures are pre-engineered by Andrometa's designers team. Tailored buildings can be engineered at a base of STEELTOWN[®] structural system considering an architectural drawings, conditions of construction and all the customer expectations.

6-storey 3 section residential building



The project was applied in construction of the building in 2014 in Kaluga region

Construction area ~ 1200 m² Total floor area ~7130 m² Living area: ~4600 m² Total number of apartments: 1 room - 72, 2 rooms - 36.







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4-storey 3 section residential building

The project was applied in construction of the building in 2014 in Kaluga region

Construction area ~ 1200 m² Total floor area ~ 5145 m² Living area: ~3080 m² Total number of apartments:72 1 room - 48, 2 rooms- 24





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3-storey hotel

Construction area ~ 840 m² Total floor area ~2500 m² Number of suits: 40

СТИЛТАУН

3-storey residential building

Construction area ~ 762 m² Total floor area ~ 2800 m² Living area ~ 1750 m² Total number of apartments- 33: 1 room- 6, 2 rooms - 27



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5-storey hotel

Construction area: 942 m² Total floor area: 4760 m² Total area of suits: 1550 m² Total number of suits: 50 Total number of guests: 100 persons





5-storey hostel

Construction area : 942 m² Total floor area : 4760 m² Total area of suits : 2400 m² Total number of suits : 75

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СТИЛТАУН

Kindergarten for 120 children

АНДРОМЕТА

Construction area: 1740 m^2 Total floor area: 3379 m^2 including: 1 floor - 1380 m^2 2 floor - 1265 m^2 3 floor - 734 m^2





The center of health

Construction area: 942 m² Total floor area: ~2860 m² Gymnastics hall: 620 m² Entry and cloak-room: 100 m² Doctors offices and procedure units: 1700 m² sauna- 100 m²

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СТИЛТАУН



SETTLEMENTS PROJECTS



The residential complex in Krasnodar region:

Total area: 0,66 hectare Building area: 1802 m² Total living area: 4140,6 m² Total number of apartments: 81: 1-room: 18 2 rooms: 63

The high temp and low expenses of construction by STEELTOWN[®] steel frame technology make it an ideal choice for complex development projects including low cost social residential buildings construction



The settlement project in Voronezh region

Total area: 26,92 hectare Building area: 54 280 m² Total area of apartments: 173 050 m² Estimated number o f inhabitants: 6900 Car parking for 1340 cars School for 970 pupils 2 Kindergartens for 140 children each one

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СТИЛТАУ

OUR INNOVATIONS ENHANCE YOUR EFFICIENCY



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