

Construction technology

based on



(Light-Gauge Steel Thin-walled Constructions)

and integration of turnkey production











"Arkada-Engineering" is a high level of standards:

- The company was honoured CE conformity certificate, it confirms perfect quality of assembly and a high safety degree of equipment that is produced.
- The company was awarded certificate of international certification IQNet.
- "Arkada-Engineering" is laureate of the contest:
 "The best Russian steel service center".
- Management of the company is recognized to conform to world standard MCO 9001:2000.

e-mail: okr@arkada-rus.com

ABOUT THE COMPANY:

The company "Arkada-Engineering" was established in 1993 and since then it has been dynamically and confidently developing, occupying leading positions and being a competitive rival in Russian and CIS markets as well as abroad.

General activity field of the company is mechanical engineering and production of coiled steel processing equipment.

Since its foundation the constructors and engineers of "Arkada-Engineering" have produced more than **160** leading technology kinds in the field of coiled steel processing. More than **20** considerable inventions were patented and applied in industry, tens of know-how were created. More than **340** equipment units are working in **65** cities of Russia and CIS. The company staff LIGHT-STEEL STRUCTURAL FRAMINGis more than **350** people and production area is more than **37 000** square meters.

Working out and promotion of a new scale technology aiming to create a market of affordable habitation for the masses is one of the main projects of the company. It is a modern high-performance buildings construction technology in which thermo sections of coiled steel are used.

The brand "Arkada-Engineering" has a great reputation in Russian and international markets.





THE COMPANY "ARKADA-ENGINEERING"

EQUIPMENT DESIGNED TO PRODUCE:

DRAINAGE SYSTEMS



METAL DECKING AND **METAL ROOFING TILES**



REINFORCING SECTIONS



THERMO SECTIONS



SECTIONS FOR BUILDING. **METAL SIDINGS**



STAMPED PARTS, PERFORATED STRIP



AIR PIPES



SUSPENDED CEILINGS. **VARIOUS PANELS** AND SHELVES



LONGITUDINAL AND CROSS STEEL CUTTING

ACCORDING TO YOUR DEMANDS

e-mail: okr@arkada-rus.com

Having in store scientific, engineering and technological potential Arkada-Engineering can offer practically all kinds of service in the market of sheet steel processing technologies: from designing and production of separate kinds of equipment to the setting of complete turnkey plants and organization of sophisticated manufacturing processes.

Constant analysis of modern tendencies and perspective directions allow to continuously refresh and improve the company production line, to extend and to perfect technological base.

Special technologies permit to start manufacturing main equipment units right after the beginning of their designing.

Specialists of the company created a unique "program of rollforming tooling calculation", due to this program the process of preparing the full set of structural documentation takes from one to five days. The new worked out design system which is based on units unification allows to get more than 200 different layout variants of automatic processing lines and machine tools.

The range of possibilities to produce equipment is being extended constantly: cutting lines are able to process steel that has thickness from 0,2 mm up to 6,0 mm, rollforming lines make it possible to produce parts with up to 1250 mm sweeping. Technological and resource factors of Arkada-Engineering equipment are the same as of foreign analogues but at the same time it has moderate price and is easy to maintain.

Engineering service of the company designed a family of equipment (more than 200 various kinds) which allows to produce nearly all types of cold rollformed sections of galvanized, paint-and-lacquer coated and many other kinds of coiled steel.









THE COMPANY "ARKADA-ENGINEERING"



e-mail: okr@arkada-rus.com

OUR CUSTOMERS AND PARTNERS:

Equipment for production of rollformed parts and elements for various construction

- ZAO "Voestalpine Arkada Profil", Yartsevo, Smolensk Region - 000 "Arsenal ST", Smolensk - 000 PKF "ALGA", Chelyabinsk - AO "MAK "Almatygorstroy", Almaty, Kazakhstan - TOO "Agran", Uralsk, Kazakhstan - OOO "Armet", Voronezh - OOO "AMETIST", Podolsk, Moscow Region - ZAO "Amari-Delta", Novosibirsk - ZAO "Financial-Construction Company Arkhstroyinvestitsii", Ufa - 000 SRTP "Aramilselkhozremont", Aramil, Sverdlovsk Region - 000 "Aplisens", Moscow - 000 "BaltProfil", Saint-Petersburg - 000 "Bashkirskiy Profnastil", Ufa - ChMP "Vidzev", Nikolaev, Ukraine - 000 "Gidroizolstroy", Minsk, Belarus - 0AO "Domostroitelniy Kombinat No.1 of. M. V. Spivak", Kiev, Ukraine - 000 "P0 "Metallist", Obninsk, Moscow Region - 000 "Mayak", Samara - 000 "Metallisk & Co", Odintsovo, Moscow Region - PBOUL "Sukhikh A. V.", Irkutsk - 000 "RUUKKI RUS", Obninsk, Moscow Region - 0AO "Metallisk & Co", Odintsovo, Moscow Region - PBOUL "Sukhikh A. V.", Irkutsk - 000 "RUUKKI RUS", Obninsk, Moscow Region - 0AO "Metallisk & Co", Odintsovo, Moscow Region - PBOUL "Sukhikh A. V.", Irkutsk - 000 "RUUKKI RUS", Obninsk, Moscow Region - 0AO "Metallisk & Co", Odintsovo, Moscow Region - PBOUL "Sukhikh A. V.", Irkutsk - 000 "RUUKKI RUS", Obninsk, Moscow Region - 0AO "Kievmetalloprom", Kalinovka, Kiev Region - ZAO "RKTM SPb", Saint-Petersburg - OOO "Stal-Ross", Saint-Petersburg - OOO "Saturn-Profil ST", Naberezhnie Chelny - OAO "Serebryakovskiy kombinat asbestotsementnikh izdeliy", Mikhailovka, Volgograd Region - 000 "Petrokomplekt", Petrozavodsk -000 "TekhPlast", Ekaterinburg - 000 "Profi-Stal", Ryazan - ZAO "Profit" - 000 "Yugmetallsnab-Kholding", Rostov-on-Don - 000 "ServisYugMetall", Krasnodar - 000 "TekS", Saint-Petersburg - 000 "Mirazh - Stal", Saint-Petersburg - 000 "Yaroslavskaya kommercheskaya kompaniya", Yaroslavl - 000 "MasterLuks", Volgograd - 000 "Naidi", Izhevsk - 000 PKF "TsKI", Irkutsk - 000 "KomFas", Krasnoyarsk - 000 "Korolevskiy Zavod Profnastila", Korolev, Moscow Region. - 000 "PG Cherepovets-Profil", Cherepovets - 000 "Cherepovetsstroyprofil", Cherepovets - 000 "Sprint-tsentr", Magnitogorsk.

Equipment for production of rollformed parts and elements used in the manufacturing of furniture, doors, casewoods, trade and warehouse equipment:

 OAO "Iceberg", Smolensk - 000 "Belmetizdelie", Fanipol, Minsk Region - 000 "DiKom", Saint-Petersburg - ZAO "Opytniy zavod "Mikron", Velikie Luki - 000 "Polimerkomplekt", Kursk - 000 "PGS-K", Novosibirsk - 000 "Sreda", Sudislavl, Kostroma Region - 000 "Kartel Prays", Moscow - GK "Maksstor", Podolsk, Moscow Region - 000 "OPTIM", Svetliy, Kaliningrad Region - 000 Enterprise "Ivakon", Novosibirsk - 000 "RossMetalProkat", Vartsevo, Smolensk Region - GAKhK "Artem", Kiev - ZAO "Puls-O", Orel - UP "Arleks", Minsk - RUP plant "Mogilevliftmash", Mogilev.

Equipment for production of rollformed parts and elements used in ventilation and drainage systems, ventilation and other facades:

- 000 PF "ARS-Prom", Tumen - 000 "Kraspan", Krasnoyarsk - 000 "MET-IZ", Odintsovo, Moscow Region - 000 "Konkur-7", Moscow - 000 "Ventkomplekt", Moscow - 000 "Klimatik", Kemerovo - 000 "Gidroizolstroy", Minsk - 000 "Vega", Bogoroditskoe, Moscow Region.

Equipment for production of rollformed parts and elements used in road construction, industrial ecology, elements of energy saving technologies:

 ZAO "Upravlyayuschaya kompaniya "Kondor-Eko", Moscow - OAO "SF NIIOGAZ", Semibratovo, Yaroslavl Region - OOO "Transbarier", Moscow - ZAO "TransEkoStroy", Moscow - OAO "Firma Izoterm", Saint-Petersburg.

Equipment for further coiled steel processing at metallurgical complexes, pipe production plants and steel service centers:

 ZAO "TD "Severstal-Invest", Cherepovets - 000 PKF "DiPOS", Moscow - 0AO GMK "Norilskiy nikel",
 Norilsk - ZAO "Stalinvest", Domodedovo, Moscow Region - 3AO "Svetlana PKK", Moscow - 3AO "Kashirskiy zavod stali s pokrytiem", Kashira, Moscow Region - 000 "Profkomplekt", Saint-Petersburg -000 "Ukrainskie sistemi kabelnikh trass", Kramatorsk, Ukraine - 000 "LASAR", Lipetsk - 0AO SP "Brestgazoapparat", Brest, Belarus - 0AO "Schelkovskiy metallurgicheskiy zavod", Schelkovo, Moscow Brestgazoapparat , Brest, Belarus - OAO Scherkovskiy metallurgicheskiy zavod , Scherkovo, Moscow Region - OAO "Moskovskiy trubniy zavod "FILIT", Moscow - MUP "TPC", Penza - OOO "MetAvtokomplekt-1", Moscow - OOO "PG "SoyuzProfil", Vekaterinburg - OOO "Karmet-Sibir", Barnaul - OOO "Zavod VEALPROF", Tumen - OOO "United Studs Company", Nizhniy Novgorod Region - OAO "ChZPSN-Profnastil", Chelyabinsk - OOO "AgregatMash", Magnitogorsk - OOO "Volgatruboprofil", Volgorechensk, Kostroma Region - "FLORIAN-PODKARPACIE S.A.", Poland - OOO "Tiger", Tambov - OOO "Ultra", Magnitogorsk - OAO "Ekovent", Lipetsk - OOO "Kommercheskaya firma Agropromsnab", Volgograd - ZAO "Atlant", Minsk - OOO "Volya", Dubna, Moscow Region - OOO GK "M-Stil", Magnitogorsk.

Units and instrumental tooling:

- OAO "Tverskoy Vagonostroitelniy Zavod", Tver - ZAO "Odintsovskiy zavod legkikh konstruktsiy", Odintsovo, Moscow Region - ZAO "Kompaniya Atlantik", Smolensk - OOO "Tovarno-siryevaya firma. 'Spetsprokat", Lobnya, Moscow Region - OAO "Kirovskiy zavod po obrabotke tsvetnikh metallov", Kirov ZAO "Nayada", Moscow - 000 "Altar-2", Moscow - 0AO "Samarskiy transformator" "Zavod akusticheskikh konstruktsiy", Saint-Petersburg - OAO "MMK-Profil-Moskva", Schelkovo-2, Moscow Region - OOO "Lerontis", Moscow - ZAO "Granat", Moscow - OOO "Inkadessa", Obninsk, Moscow Region - ZAO PIK "Reconstruktsiya", Moscow - 000 "Oktan", Zelenokumsk - 0AO MZ "ZiO-Podolsk", Podolsk, Moscow Region.

Our respected partners and suppliers of mechanisms and utility:

- "ARKU Maschinenbau GmbH" Germany; "DIMECO Alipresse" France; "HERRBLITZ moduler system s.r.l." Italy; "P/A Bohemia s.r.o." Czech Republic; ZAO "Schneider Electric", Moscow; ZAO "SEW-Euro drive", Moscow; ZAO "Kvanta"; OOO "GidraPak Soedinitelnie sistemi", Moscow; ZAO "Gidra Pak Silovie Sistemi", Moscow; OOO "Tekhprom", Moscow; ZAO "Varus", Moscow; OOO "Pnevmaks", Moscow; OOO "Kamotsi Pnevmatika", Moscow; OOO "MIG elektro", Moscow.

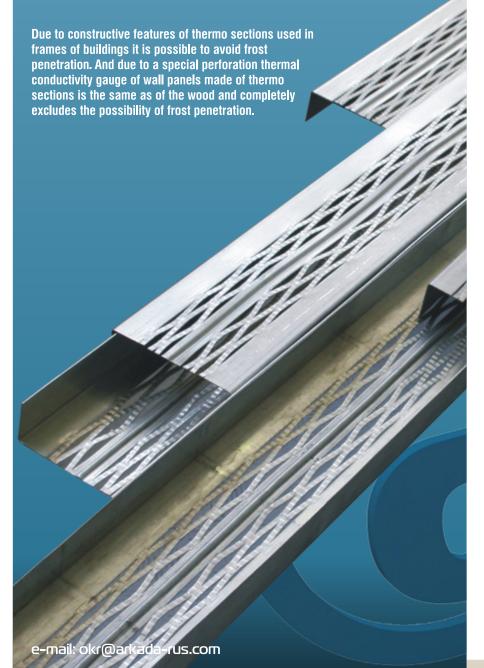
Thank you for confidence and successful work together!



The company "Arkada-Engineering", Ltd. presents the technology of steel frame buildings construction that gains world popularity.

Basis of this technology is

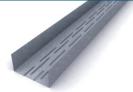
THERMO SECTION and its unique characteristics



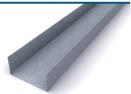
TECHNOLOGY BASIS:

FRAME ELEMENTS:

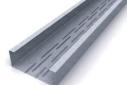
Guide thermo section



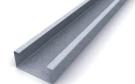
Guide section



Rack-mount thermo section



Rack-mount section

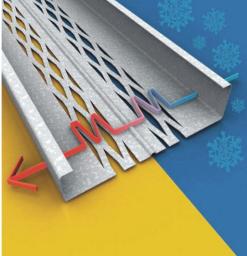


Balk section



Angle section





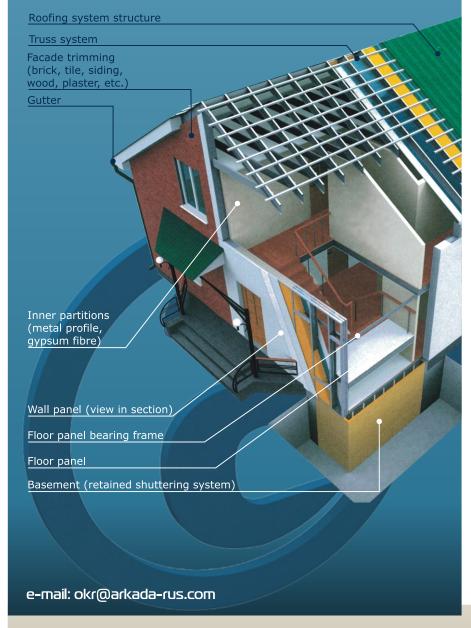


Technology main point is the following: frame is the basis of the building, it is made of bearing sections of steel, partitions, floors and roof systems. Wall panel consists of steel thermo sections having thickness from 0,8 to 2,0 mm and effective thermal protection. Constructions are encased by fibre reinforced gypsum panels from inner and outer sides. All kinds of materials can be used as facade decoration: bricks, facade slabs, plastering, siding etc.

Technology application:

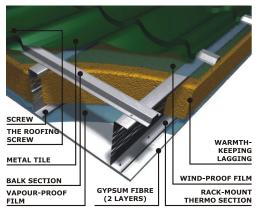
- 1. Construction of low-rise apartment buildings.
- 2. Construction of multistorey building: as frame filling.
- 3. Roofing systems.
- 4. Reconstruction of existing buildings and constructions.
- 5. Erection of attics, additional storeys and outhouses.

Structure scheme of a building based on thermo section panels

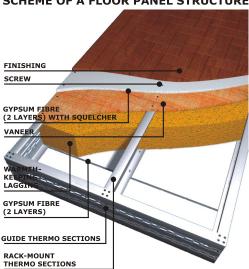


TECHNOLOGY BASIS:

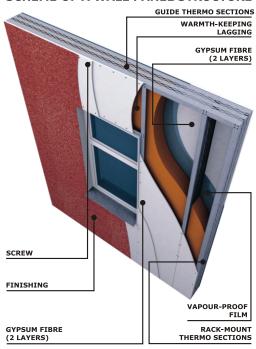
ROOF CONSTRUCTION SCHEME



SCHEME OF A FLOOR PANEL STRUCTURE



SCHEME OF A WALL PANEL STRUCTURE





Functionality of buildings

Functionality of buildings can be different: apartment houses, industrial buildings, hangars, office premises, kindergartens, schools, hotels, restaurants, dormitories etc.

The usage of this technology allows to solve an actual problem of present housing resourses. Steel frame technology makes it possible to reconstruct buildings by erecting of attics, additional storeys and outhouses using wall, roofing and flooring systems together or apart.

Utilization of steel frame technology is also effective along with standard methods of multistorey and high-rise buildings construction. The frame is erected according to classic technologies and inner and outer walls serve as steel frame filler. It considerably reduces the cost of buildings and their construction period.

Advantages of technology:

Affordable price.

Effective energy saving, low operational cost.

Fast assembly in any time of the year, high labour productivity: buildings are erected during 2-4 months from underbuilding to turnkey handing-over in any season.

Great construction possibilities, free-pattern town planning, any kind of roofing covering and facade decoration is possible.

Safety and durability: the houses built according to steel frame technology fully satisfy the demands of SniP II-03-79. Life duration of steel frame is from 100 years.

Light weight: assembly is made without heavy lifting machines, it allows building in compact planning city conditions. Houses can be reconstructed without additional reinforcement of existing foundation and bearing constructions.

Heat-resistance: materials used in constructions are fireproof. Ecological compatibility: materials used in constructions are ecologically clean and can be fully recycled.

Fast cost recovery of investments: low prime cost of construction creates great possibilities for small-scale business.

TECHNOLOGY BASIS:













e-mail: okr@arkada-rus.com



using **steel frame technology** in construction means

Reconstruction of old housing

WITHOUT HEAVY EXPENSES!











e-mail: okr@arkada-rus.com



using steel frame technology in construction means

MASS HOUSING DEVELOPMENT OF A RESIDENTIAL DISTRICT **AT MAXIMUM SPEED!**















using **steel frame technology** of construction means

CONSTRUCTION IF ADDITIONAL STOREYS AND ATTICS FOR EXISTING BUILDINGS WITH MINIMUM LOAD!













e-mail: okr@arkada-rus.com



using **steel frame technology** in construction means

COST LOWERING

OF MULTISTOREY BUILDINGS CONSTRUCTION















e-mail: okr@arkada-rus.com







EQUIPMENT:

PLANTS FOR PRODUCTION OF

TURNKEY

STEEL FRAME TECHNOLOGY

INDIVIDUAL COMPLETE SET













EQUIPMENT:

PLANTS FOR PRODUCTION OF

TURNKEY

STEEL FRAME TECHNOLOGY

INDIVIDUAL COMPLETE SET

Project realization period:

Working out of a business plan takes from 7 to 8 weeks. Manufacturing and delivery of equipment takes from 8 to 12 months.

Taking into consideration the importance of fast construction of housing according to priority program of the Russian Federation President our company offers technology of production and produces equipment for manufacturing of contemporary high quality housing agreeable to the standards of architecture and design.

We have introduced to you steel frame construction technology of quick-erecting low-rise apartment buildings and constructions where light steel sections are used. The technology meets all conditions of modern construction and the price of finished housing for living is low, moreover it has high consumer quality and long service life period.

Arkada-Engineering Ltd. 214030, Russia, Smolensk Krasninskoe shosse, 35 Tel./Fax: +7(4812) 65-26-99

e-mail: okr@arkada-rus.com







