ANCILLARY STEEL STRUCTURES FOR INDUSTRIAL AND CIVILIAN BUILDINGS
Draft, design, manufacture and installation of ancillary steel structures for industrial and civilian buildings, built-in and technological platforms, industrial stairs and railings, steel structures of pipe bridges for steel pipes, crane runways, structure for securing technological objects, ventilation and heating units and wiring, awnings and shelters, fire and climbing ladders, tinsmith and edging profiles, auxiliary steel structures for mounting of roof and facade components, auxiliary steel structures for mounting openings fillings /windows, doors, gates/, supporting structures for transparent facades, other steel products /holders for advertising signs and billboards, fence parts, grilles, gates etc./.
Draft, design, manufacture and installation of ancillary steel structures for industrial and civilian buildings

- built-in and technological platforms
- industrial stairs and railings
- steel structures of pipe bridges for steel pipes
- crane runways
- structure for securing technological objects, ventilation and heating units and wiring
- awnings and shelters
- fire and climbing ladders
- tinsmith and edging profiles
- auxiliary steel structures for mounting of roof and facade components
- auxiliary steel structures for mounting openings fillings /windows, doors, gates/
- supporting structures for transparent facades
- other steel products /holders for advertising signs and billboards, fence parts, grilles, gates etc./
Built-in and technological platforms with industrial stairs and railings

From the perspective of efficient use of space in buildings and for the purpose of creating a warehouse, office and service areas, different types of built-in platforms are used.

Technological platforms (constructions) are an essential part of supplying technological units that are used in various industries (chemical, metallurgical, mechanical engineering, food processing, etc.).

Built-in platform can be designed according to the required parameters /size, the required load, purpose, location, etc./ not only in the new building design, but also in already operational, older building, including including ancillary structures (access stairs, railings, etc.)

Horizontal elements and columns of built-in and technological platforms are usually designed and made up of steel cylindrical profiles type IPE, HEA, HEB as well as other profile materials. Steel floor gratings in FeZn version and trapezoidal metal sheets /which doubles as a hidden shuttering/ also in FeZn version combined with concrete grout are used as wear layer.
Industrial stairs and railings

Industrial stairs and railings can be supplied as part of the built-in and technology platforms.

Type and layout of steel stairways and railings is consulted with customer and the general designer. When designing stair steps we choose alternative to steel floor gratings (grating) in the FeZn version or metal sheet combined with concrete grout, tile or wooden stair steps (used mainly in the spiral staircase).

The staircases are standardly delivered with railings that can be made from steel closed profiles with circular or rectangular cross-section and other profile materials.

For aesthetic reasons, stainless steel railings are widely used in administrative or civilian buildings.
Crane runways are mounted on the crane runway brackets of buildings column. Brackets are firmly attached to the supporting column of the building. The type and size of crane runway depends on the type, crane capacity and modular distance of columns or brackets. When designing object with a crane the most significant indicator is the lift height or hook of the crane, which determines the total height of the object and the location of crane runway.

Part of every crane runway is also a rail, which is mostly designed and made of solid panel profile of a square cross-section. The size and shape of the rail is also dependent on the type and capacity of the crane. Rail is connection to the actual profile of crane runway in two ways namely fixed and non dismountable way/welding/ or dismountable way/screw connection/.

Constructions for securing technological objects, ventilation and heating units, pipelines and wiring

- They can be used in existing buildings as well as new buildings.
- Proposals are based on dimensions, weight, location and possible method of attachment to the original construction of the building. All these parameters determine and influence the size and appearance of auxiliary construction.
Awnings and shelters

- Awnings and shelters are not only aesthetic but also functional, providing shade covering and weather protection.
- They can be mounted also above entrances (gates, doors), as well as in the walls without entrances, which serve as shelters to create covered areas for example for the purpose of storing material.
- The material used is the open cross-section rolled profiles (U, UPE, IPE etc.) as well as a closed circular and rectangular cross-section and other profile materials.
- Polycarbonate sheets of various thicknesses and trapezoidal sheets are used as roofing material.
- Method of anchoring to the building is chosen according to the type of the original building and can be straight into the construction or the wall of a building or self supporting with individual columns.

Fire and climbing ladders

Essential part of every industrial and civil building in terms of security and fire protection are fire or simple climbing ladders. Number and their location is based on the design and corresponds to the relevant norms and standards.

Design and production of the desired types of ladders is consistent with the project documentation with regard to their location, method of attachment and building height in compliance with the required standards and existing norms.
Tinsmith and edging and curved profiles and components

Edging components are produced in tandem press-brake with a total length of 2 x 3000 m (max. length of edging component is 6000 mm) with a maximum thickness of edging component 10.00 mm. Material for the production of profiles and components is sheet in FeZn version, varnished metal sheet or steel sheet without surface treatment. Edging profiles and tinsmith components are used in the construction sector (as auxiliary structures for roof and facade systems, fillers for windows, doors and gates, transparent facades etc.) as well as semi-finished products in the production of complex engineering units.

Auxiliary steel structures for roof and facade components

They can be used in existing buildings as well as new buildings, where the building supporting structure (skeleton) is formed by steel or reinforced concrete construction. They can be made out of open cross-section rolled profiles (U, UPE, UE) and a closed rectangular cross-sectional profile and other profile materials such as cold rolled economic profiles in FeZn finish.

Design of auxiliary steel structures (type, size, spacing of profiles) depends on the static calculation, the required fire resistance and so on.

Auxiliary steel structures are suitable structures for roof and facade components:

- roof and facade sandwich panels
- different types of stacked sheets
- roof and facade trapezoidal sheets
- different types of facade panels and systems
Auxiliary steel structures for mounting openings fillings /windows, doors, gates/

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**Auxiliary steel structures are suitable structures for mounting openings fillings:**

- plastic, aluminum and steel windows and doors
- sectional and rolling industrial gates
- sliding and hinged steel gates
- skylights
Supporting structures for transparent facades

They are made of rolled profiles of closed rectangular cross-section and other materials. Their size, wall thickness and shape are given by static calculation.

Profiles for supporting structure are normally produced in the widths of 50 or 60 mm (depending on the technical solution of buildings, also in other widths) and various building depths.

Profiles can be connected by connectors or welding, and for reasons of greater stability, welded structures are preferred.

It is then possible to fix (anchor) system facade elements with filling on the supporting structure.
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Other steel products

- holders for advertising signs and objects
- billboards
- fences, grilles, gates, railings
- traffic sign gantries
- construction of noise barriers
- bridging walkways
- racks
- stainless steel constructions
- products from perforated metal sheets and expanded metal
Registered office:

METICON, a.s.
Osloboditeľov 4
976 67 Závadka nad Hronom
SLOVAKIA

Tel: +421 48 619 89 72
Fax: +421 48 619 89 71
Mobile: +421 905 494 700

E-mail: info@meticon.eu