

„UA” profile series

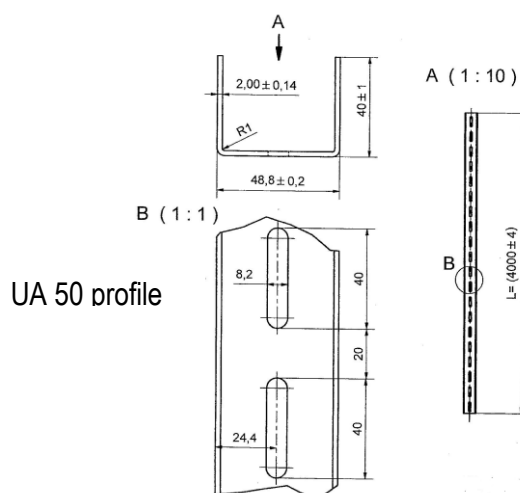
Metallic profiles "UA" type for stiffening.

PRESENTATION:

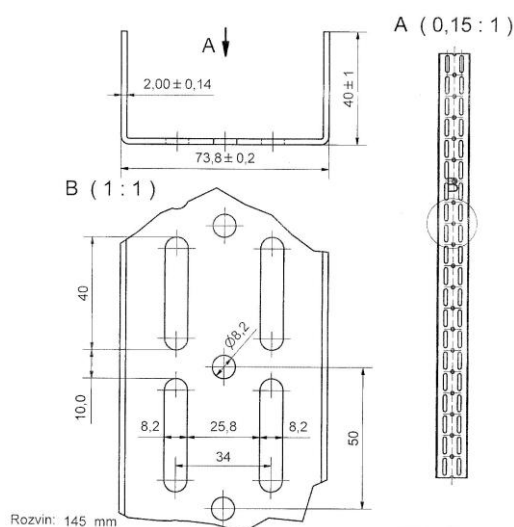
Metallic profiles from galvanised steel, made in planning machines with roller and press.

UA type profiles

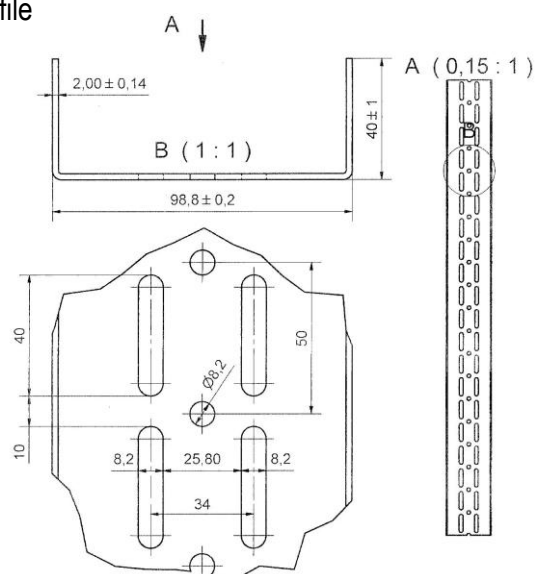
- they have the cross section in U shape and the heart of the profile is punched
- the height is 40 mm, the sole width is 49,8; 74,8 and 99,8 mm and the wall thickness is 1,75 mm or 1,90 mm.
- the profiles are delivered in 3 and 4 m lengths or special lengths at customer's request



UA 75 profile



UA 100 profile



USAGE:

- Interior design for dry wall partitions.
- Structures for partition walls, with fastening in the ceiling and in the floor

Usage	UA 50 40/49,8/40	UA 75 40/74,8/40	UA 100 40/99,8/40
ceilings with metallic support frame			
structures for partition walls with fastening in the ceiling and floor			
plating of the walls, for new constructions and renovations; gaps covering; scoops			

- The product is in accordance with the UE regulation SR EN 14195 „components of the metallic structures for dry wall systems”.
- The evaluation of the product's compliance with the UE regulations is made by quality checkings in the production and initial type testings in the IME Urban – INCERC laboratory, Cluj-Napoca branch.

ADVANTAGES:

- Can be mounted without any previous processing on any surface.
- Application is simple and is made fast and easy.
- Specific consumption is low.
- Interior design and partitions.

ASSESSMENTS OVER THE PRODUCT:

- Anticorrosive protection made by zinc coating maintains in time the properties of the profiles and accessories.
- If the mounting instructions are respected, the profiles and accessories give the partitions realised with them the proper stability.
- The resistance of profiles and accessories to soft impacts is appropriate, but impacts with tough corps can cause local contorsion.
- The profiles fit in the combustion class CO.
- The metallic profiles do not contain radioactive substances, elements with potential cancerous risk, toxic waist or any other substances harmful for peoples health or for the integrity of the environment.
- The metallic profiles are in accordance with the conditions imposed by the regulation 137/1995 for environment protection.
- The raw material used for the profiles is recyclable.

TECHNICAL FEATURES:

- Aspect: the surface of the steel sheet is uniformly zinc coated, without any visible flaws.
- Steel sheet thickness: 1,75mm; 1,90mm
- Mass of the zinc coated layer: min. 100g/m²
- Tensile strenght: min. 350N/mm²
- Elongation : min. 10%
- Thickness deviations: ± 0,06 mm

- Length deviations: $\pm 0,05\text{mm}$
- Reaction to fire class: A1(C⁰)
- Fire resistance: 15 minutes

ZINC COATED STEEL SHEET SPECIFICATIONS:

- All profiles are made from DX51 DZ material, which explains the physical properties of the material according to UE standard EN10346:2009, and **Z** marked on the product means zinc coated, meaning that it was introduced in a melted zinc tub with a minimum concentration of 99%.
The zinc gives the material an excellent protection against corrosion, with a double function: barrier type effect and cathodic protection.
- Barrier type function of the zinc layer (coating) is due to the resistance properties of the zinc. In contact with the air the zinc is covered with a layer of zinc oxide - ZnO or hidroxiide - Zn(OH)₂, forming an excellent natural protection against corrosion.
- Cathodic protection results from the electrochemical different properties of the iron and zinc - Fe and Zn.
- In the conditions of electrochemical corrosion, the zinc forms the anod of the corrosion cell which eliberates iones in form of cathodic products.
- Another important protection against white corrosion is the crom coating - Cr+3 which protects the shine of the product. Although, premature apparition of the white corrosion does not influence in any way the chemical and physical properties of the material being only a visual flaw.

RULES AND REQUESTS CONCERNING THE LOADING OF THE PROFILES IN THE TRANSPORT TRUCKS:

- S.C. Kovostroj S.R.L. has as a minimum request for the transporters hyerd to deliver the products or for the transport trucks that belong to the beneficiaries or hyerd by them:
 - to be equiped with cinches to bolt the goods, as followes:
- 4 pieces of cinches for each line of lloaded profiles [1 line coresponds to one truck shutter];
- In total: 8 cinches to bolt and fix.
 - to have metall or plastic corners to bolt the goods, as followes:
- 2 pieces for each cinch; these corners prevent contorsion of the profiles when the cinches are tightned (fastened), being used on the contact point between the cinch and the profile.
- In total: 16 corners to bolt and fix.
- Any inconsistency between these requests of the manufacturer and the loading possibilities of the transporter allowes S.C. Kovostroj S.R.L. to refuse loading the products based on the fact that the transport is insecure.
- In exceptional cases, at the express written request of the beneficiary, loading and transport can be accepted by S.C. Kovostroj S.R.L. conditioned by the existence of a written protocol, where the beneficiary asks especially this, signed and stamped by the authorised person to take such a decission; this is an acceptance of the beneficiary that the transport is made on his risk and also that he can not make any later complains or requests regarding eventually damaged goods.

TRANSPORT AND HANDLING:

- The metallic profiles for dry walls are delivered in bundles , tightned with PP or metallic strip, protected, and eventually, with side wood protection or corners. The unloading of the bundles will be mechanized with special lifting machines. The distance between the lifting sustentations will be approx. 1/3 from the lenght of the bundle. The bundles will be lifted only in horizontal position, and the unloading will be made on a plane surface.
- Attention! Do not enter in the range of the lifting machines when they are handling the products!
- The metallic profiles for dry walls can also be unloaded by hand. In this case, special protection measures will be taken against scratching and accidental cuts which can be made by the sharp edges and corners of the profiles. Protection

gloves will always be used. The metallic profiles for dry walls will be protected against accidental kicks and scratchings. Also, it is not allowed to plump the bundles.

- To keep the form, the long metallic profiles for dry walls will be handled with care and they will be mechanically transported otherwise, they can be damaged and this will affect the mounting.

TAKING OVER:

- It is mandatory to check the quantity and quality of the profiles, to be in accordance with the order and specification note. Any inconsistencies in the delivery must be mentioned on the specification note and in a written reception protocol, oversigned by the transporter and notified to Kovostroj SRL in maximum 2 days from the reception of the transport. The products considered damaged will not be used. Otherwise, Kovostroj SRL has the right to refuse their replacement.

STORAGE:

- The bundles are stored on sustentations (ex.: wood pieces) that respects the maximum dimensions between them, or between them and the edge of the bundle:
Max. 60 cm from the edge of the bundle;
Max. 180 cm between sustentations.
- The bundles with metallic profiles are stored inside, in a space with unalterable temperature and minimum ventilation in order to avoid vapour forming.
- If the storage of the profiles is made outside, it must be made under a roof that is weather protective and assures continuous ventilation. The storage will be made on dry surfaces, away from moisture or on a specially built rack. Up to 4 bundles can be stored one over the other under the condition that the collection and leaning points of the bundles to be placed one over the other. If the storage is for a longer period of time the bundles will be stored in a slightly inclined position and will be covered with a canvas or folia that allows ventilation. Storage under a folia that does not allow ventilation is not recommended because this reduces considerably the period in which the white corrosion appears.
- Under the continuous effect of water and air over the profiles is not possible to prevent the apparition of white corrosion, but this will not influence the quality and functionality of the profiles. In exceptional cases, red corrosion can appear on the surface of the profiles. This is due to a fabrication flaw of the raw material (which manifests in maximum 3 month) or because of improper storage (long term white corrosion of the surface combined with watter effect).

MOUNTING:

- The mounting the profiles is made without any particular difficulties, in a normal precission work, especially to suspended ceilings, walls, plating etc. made from dry wall pieces on a metallic structure.
- The profiles are mounted based on a execution project, according to the manufacturer's instructions, on distances established by the designer of the ellement that is made with these profiles.
- CD and UD profiles are used for suspended ceilings.
- The sustaining structure of the ceiling made from CD profiles is bolt on the buildings plate with clamps or suspension devices.
- The clamping pieces of the profiles are fixed on the buildings plate, at equal distances, established by the execution project, deppending on the thickness of the profiles and the operating load. The step chunks of the low profile bracket is maximum 900mm and the distance between profiles is maximum 1000mm. Low profile brackets are fixed with screws by the clamp's wings bent at 90° or by the suspention devices. Secondary profiles (for mounting) set at rights angle on the low profile brackets, are fixed in the inferior side of these with a bolt piece, simple or double, at equal distances of maximum 500mm.
- UD edge profiles, that connect the structure to the wall, are fixed with clamping ellements that depend on the type of wall. After the metallic structure is finished, on the secondary profiles are mounted the dry wall pannels for the ceiling, with special self-tapping screws.

- CW and UW profiles are used especially for metallic frames for wall plating, dry plaster, coverings etc. that are made from dry wall pannels.
- Horizontal UW profiles, for closing of the metallic frame are fixed on the floor/ceiling with screws with proper dowels. Vertical CW profiles, low profile brackets, of the structure, adjusted on the hight are positioned and fixed in the closing UW profiles. Vertical profiles are distributed at equal distances, depending on the thickness of the profiles, at maximum 600mm. On the back of the profiles that come in contact with the support surface is applied a layer of sealing PuTTY or sealing tape.
- In case the support structure is fixed directly on the structural elements of the building, UW closing profiles are fixed with screws with dowels at distances of maximum 1000mm. Vertical CW profiles, positioned in the UW profiles, at half way hight (max. 1500mm) are fixed with clamps pinned with dowels in the support.
- When it is a self supporting structure, the closing UW profiles are fixed in the support with screws with dowels in at least 3 points per meter. At half way of the hight are foreseen horizontal intermediary stiffening splines, made from CW profiles.
- The mounting is executed by workers that are specialized in works like this.
- The profile type as well as the thickness, is determined for each situation by the designer.

GUARANTEE:

- S.C. Kovostroj S.R.L. gives guarantee for all it's profiles, that they are manufactured in accordance with EN regulations for these type of construction elements.
- If the storage conditions are accomplished and kept (interior space, continuous ventilation and temperature) an extra 3 month guarantee is given for whyte corrosion.

DECLARATION OF CONFORMITY:

- **In accordance with Directive 89/106/EEC** - on the harmonization of laws, regulations and administrative provisions of the Member States relating to construction products with Ordinance no. 20 of 08/18/2010 establishing measures for the uniform application of EU legislation harmonizing the conditions for the marketing of products and Government Decision no. 622/2004 with subsequent amendments establishing the conditions for the marketing of construction products, declares on his sole responsibility that the product conformity certification was made for the products "Metallic profiles for gypsum structures" from the annexed invoice/delivery note, are not a threat for the life, health or work security, are not with negative impact for the environment and are in compliance with the outgoing standards and regulations that refers to them.
- These products comply with all the requests of the outgoing standards and do not indanger in any way if they are used in normal conditions, according to their destination.