

# Steel profiles and components

## Product sheet



1:2011

on/Corrected version September 2012)

aluminiumkonstruktioner –  
överensstämmelse

structures and aluminium  
components for conformity assess

SVENSK STANDARD  
SS-EN 14195:2011

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Stålprofiler för gipsskivor  
Definitioner, krav och

Steel framing  
Definitions, r

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Partiell

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## Product description

Europrofil Steel profiles and components are made of hot-dip galvanized or Magnelis®-treated sheet metal.

## Areas of use

Europrofil steel profiles and components are usually used as framing in:

- Load-bearing and non-load-bearing dry wall constructions for internal and external walls.
- Suspended, direct mounted and free spanning dry wall ceilings.
- Facade systems for renovation and additions to external walls.

## Technical data

The raw material consists of about 10-15% recycled material and is mainly delivered from suppliers within the EU.

Density: approx. 7850 kg / m<sup>3</sup>. See current construction product declarations at [www.europrofil.se](http://www.europrofil.se).

## Additives

Rubber seal - EPDM rubber sealing strips for air and sound sealing. These are glued to the profiles with hot melt glue.  
Polyethylene strips - Sealing strips of cell polyethylene for air and sound sealing. This is glued to the profiles with hot melt glue.

## Effect of humidity

Steel is a non-organic material that cannot mold, rot or otherwise adversely affect the living environment.

## Processing

The profiles are cut, depending on the type and thickness of the material, usually with sheet metal scissors, profile cutter or sheet metal nibbler. The cut surface, when cutting or drilling, does not need to be finished as both zinc and Magnelis® have self-healing properties.

## CE-marking

Profiles for internal walls are CE-marked according to standard SS-EN 14195:2005. Profiles for ceilings according to SS-EN 13964:2014 and profiles for external walls and load bearing internal walls are marked according to standard SS-EN 1090-1:2009+A1:2011.

## Applicable standards

SS-EN 14195:2014 - Production standard  
SS-EN 1090-1:2009+A1:2011 - Production- and process standard  
SS-EN 10143:2006 - Material standard  
SS-EN 10346:2015 - Material standard

## Certificates

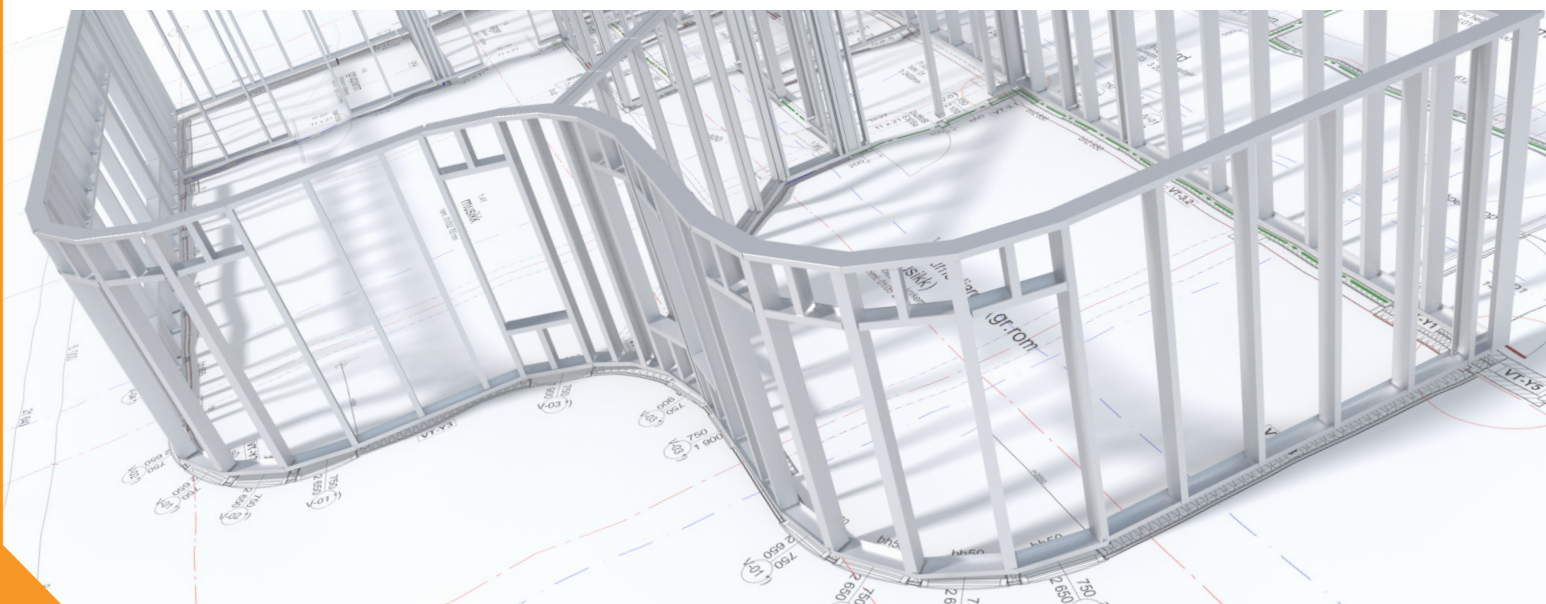
In order to clarify Europrofil's quality work and the ambition to constantly reduce Europrofil's environmental impact, Europrofil's operations are certified in accordance with

- ISO 9001:2015
- SS-EN 1090-1:2009+A1:2011
- ISO 14001:2015.



## Environmental documentation

All steel components have been subject to a LCA and the results are presented in our EPD, Environmental product declaration, according to EN 15804. EPD is always requested when the building is to be certified according to Miljöbyggnad, BREEAM or LEED.



## Delivery

Profiles are usually delivered in smaller delivery packages of 4-12 individual profiles which are bundled with plastic straps. The delivery packages are put together in a "pallet" on wooden bedding. Some products are also delivered with wooden spacers for stability. The pallets are strapped with steel or plastic straps.

Door studs in full pallets are delivered with weather protection in plastic. This is not intended for unprotected outdoor storage.

## Storage

When storing outdoors, it is advisable to place the profiles with a slope to enable drainage of e.g. rainwater. For longer storage outdoors, the profiles should be weather-protected. Otherwise, so-called white rust, can occur. White rust is only a change in appearance that does not adversely affect the performance or corrosion protection of the profiles. Runners with EPDM-seals must be weather protected if kept outdoors.

## Material and tolerances

### Material, profiles

| Material type                | S250GD + z100  | S350GD + z100  | S350GD + z275  | S250 D + ZM310  |
|------------------------------|--|--|--|---|
|                              | According to SS-EN 10346:2015  | According to SS-EN 10346:2015  | According to SS-EN 10346:2015  | According to SS-EN 10346:2015   |
| Yield strength, Re           | Min 250 N/mm <sup>2</sup>  | Min 350 N/mm <sup>2</sup>  | Min 350 N/mm <sup>2</sup>  | Min 250 N/mm <sup>2</sup>   |
| Tensile strength, Rm         | Min 330 N/mm <sup>2</sup>  | Min 420 N/mm <sup>2</sup>  | Min 420 N/mm <sup>2</sup>  | Min 330 N/mm <sup>2</sup>   |
| Elongation, A80              | Min 19 %   | Min 17 %   | Min 17 %   | Min 19 %  |
| Surface treatment, type      | Zink   | Zink   | Zink   | Magnelis®   |
| Surface treatment, weight    | Min 100 g/m <sup>2</sup> distributed on both sides of the sheet metal.   | Min 100 g/m <sup>2</sup> distributed on both sides of the sheet metal.   | Min 275 g/m <sup>2</sup> distributed on both sides of the sheet metal.   | Min 310 g/m <sup>2</sup> distributed on both sides of the sheet metal.  |
| Surface treatment, thickness | Approx. 7 µm/side  | Approx. 7 µm/side  | Approx. 20 µm/side   | Approx. 25 µm/side  |
| Corrosivity class            | C1   | C1   | C2   | C5  |
| Area of use                  | Mainly 0.46 mm thickness for use in internal wall- and ceiling profiles. | Only used for perforated metal sheet to meet the current material criteria for burglary protection in SSF200: 5. | 0.7 - 3.0 mm for use in profiles for load-bearing structures such as exterior wall profiles, light beams, and associated components. | 0.7-1.0 mm for use in products intended for exposed environments, where greater demands are placed on corrosivity resistance. |

Europrofil reserves the right to replace the above materials with equivalent or better materials if necessary. Tensile strength and corrosivity class will always be equal to or better than the standard grades. Subject to change.

### Tolerances, profiles

|                     | Runners<br>U, UEP, UF, UY, UYEP   | Studs<br>C, C+, CSP+, CF, CY, CYK,<br>CYEP | Beams<br>CL, UL, ZL | Other profiles |
|---------------------|---|--|---------------------|----------------|
| Length tolerance    |   |  |                     |                |
| ≤ 3 m               | ± 5 mm  | + 0 / - 3 mm                               | ± 5 mm              | ± 10 mm        |
| > 3 ≤ 5 m           | ± 5 mm  | + 0 / - 4 mm                               | ± 5 mm              | ± 10 mm        |
| > 5 m               | ± 5 mm  | + 0 / - 5 mm                               | ± 5 mm              | ± 10 mm        |
| Width tolerance     | The width must be measured with a caliper and the dimension must be measured at least 150 mm from the end of the profile. The tolerance is + 0 / -1 for studs and + 1 / -0 for runners. |  |                     |                |
| Thickness tolerance | The tolerance is max ± 8% of nominal thickness.   |  |                     |                |
| Perpendicularity    | The angle must be measured at least 150 mm from the end of the profile. The tolerance is ± 2 ° from nominal angle.  |  |                     |                |
| Crookedness         | Maximum 0.2% of the profile length (does not apply to Z-profiles)   |  |                     |                |

The door studs' weather protection in plastic is not intended for unprotected storage outdoors. These should be stored indoors.

## Re-cycling and re-use

All steel profiles and components from Europrofil can be recycled to 100%. Both profiles and components can normally be reused if disassembly is done with care.

Steel straps, plastic straps, wood spacers, etc. can be recycled or incinerated. EPDM-seals, sealing strips and hot melt glue residues for attachment to these can be disposed of as waste if local regulations allow this.

## Maintenance

Europrofil's products are usually built into wall, roof and facade constructions and do not need to be maintained.

In the event of damage or visible deformation of the products, it is important that the product is replaced or repaired as soon as possible as its properties and function may be adversely affected.

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