

# More than a pure matter of shape

Compact panels  
Compact forming parts  
Compact furniture and  
system solutions



**CFF GmbH**  
Compactforming  
und -folding



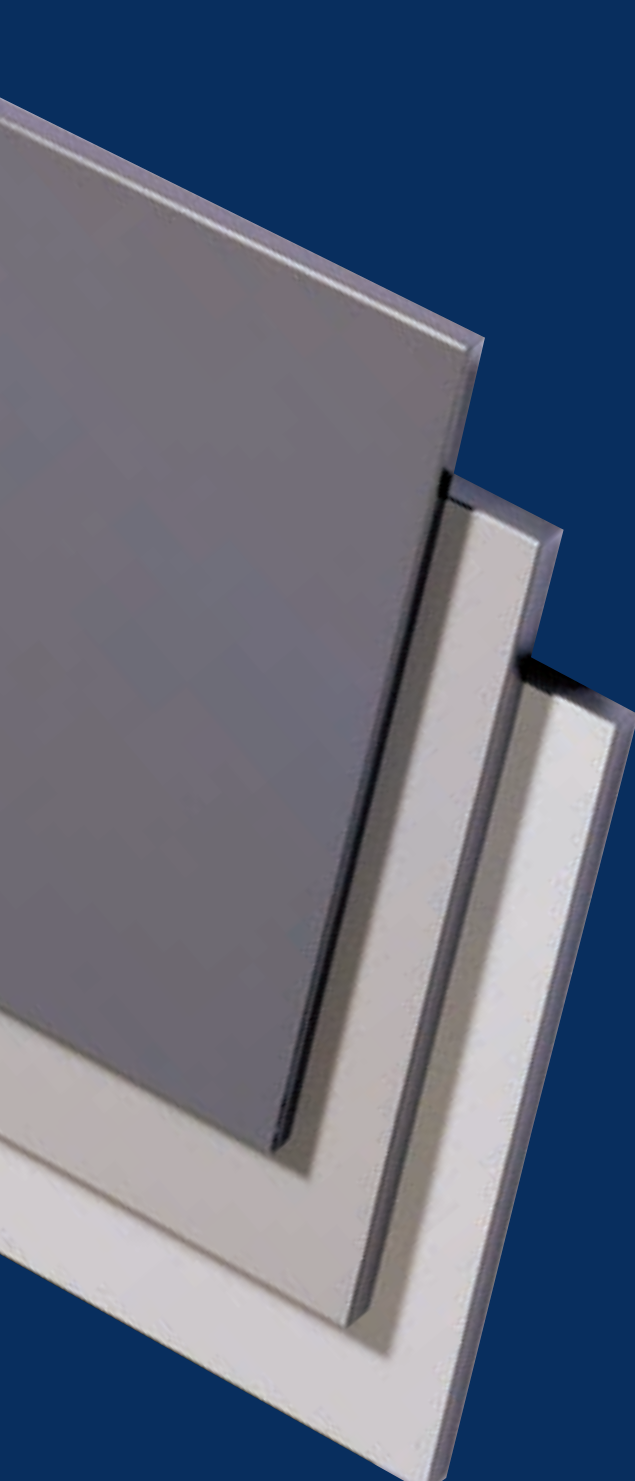
## Our standard? Best shape for you.

To be able to tread new economic and creative paths in interior decoration and furniture design, you need two different things. The right material and the right partner.

CFF offers you both. On the one hand many years of experience, which have turned us into a specialist especially when it comes to the machining and processing of full-core Compact materials. On the other hand, we are the only European business to have received the licence for the Compact forming method developed by the manufacturer Max Isovolta.

That way we jointly keep on developing new solutions for our customers who come from many different fields. For this we use the flat Compact panel as it opens up a wide area of application thanks to its special product properties. In addition we offer the Compact forming panels, which may be shaped in a great variety of ways by means of a patented processing method.

This allows us to develop solutions that do justice to your ideas in an optimum manner. True to our standard: to translate your ideas into the best possible shape.



## The material? Compact, resistant, versatile.

Compact panels are made of resin-impregnated cellulose sheets. These are pressed inside laminate presses at great pressure and high temperatures.

This process generates the Compact panel's specific advantages: high resistance to moisture, heat, chemicals and mechanical stress.

Even during processing, the Compact panel convinces by its versatility and ease of handling. It can be sawn, milled, drilled, grooved and glued. Threads can be cut directly into the material and threaded sleeves can be inserted just as easily. Once edges have been ground they can serve as exposed surfaces without any further treatment. However, it is also possible to paint the Compact panels after they have been appropriately polished.

Compact panels are manufactured in different thicknesses. Even if thinner panels are used, the statical load-bearing capacity is many times greater than that of many other materials. A benefit that means many advantages both for construction and for innovative furniture design.





## The result? Surprising, appealing, modern.

What exactly you are going to design with Compact panels is up to your creativity. How these panels adapt to the different situations they are used in depends on which type you select.

There are basically two panels to choose from: Compact panels and Compact forming panels.

The latter are equipped with special sliding layers that are introduced between the paper sheets in the panel core during the production process.

The Compact forming panel can be repeatedly shaped in many different angles and radii through the application of heat and pressure. This is done according to a patented processing method on machines that have been specially developed for this purpose by CFF.

Apart from the advantage that it can be shaped, the Compact forming panel offers material properties similar to those of the Compact panel.

CFF keeps on developing new shaping possibilities and with that opens up new dimensions for the processing and application of this fascinating material.

CFF offers you all the stages of processing from extruded slabs to the development and manufacture of fully assembled systems.

## The areas of application? Virtually unlimited.

Compact laminate is antistatic, non-poisonous, does not freeze and does not decompose. It neither absorbs mould fungi nor spores, does not contain any asbestos or chlorine and exceeds the European regulations with regard to the emission of free formaldehyde.

Many good reasons why Compact panels are often found in areas where hygiene and ease of cleaning are very important: e.g. lavatory facilities, furniture and

furniture components in clinics and hospitals, laboratory furnishings, sanitation facilities, facilities for swimming pools and campsites, school furniture, etc.

Here, Compact forming elements by CFF offer the additional possibility of developing a new language of shapes. For facilities that function just as much as they fascinate.

However, masterly set individual accents can also be achieved by selecting one of the coloured surfaces. And what's even more: the high resistance combined with the slenderness of the material also opens up new aesthetic avenues. An aspect that accommodates the trend towards lightness and transparency in design – especially when it comes to furniture making, shop fitting and fair pavilion design.

That is why Compact material is the material for the future for everyone looking for new materials and designing new trends.

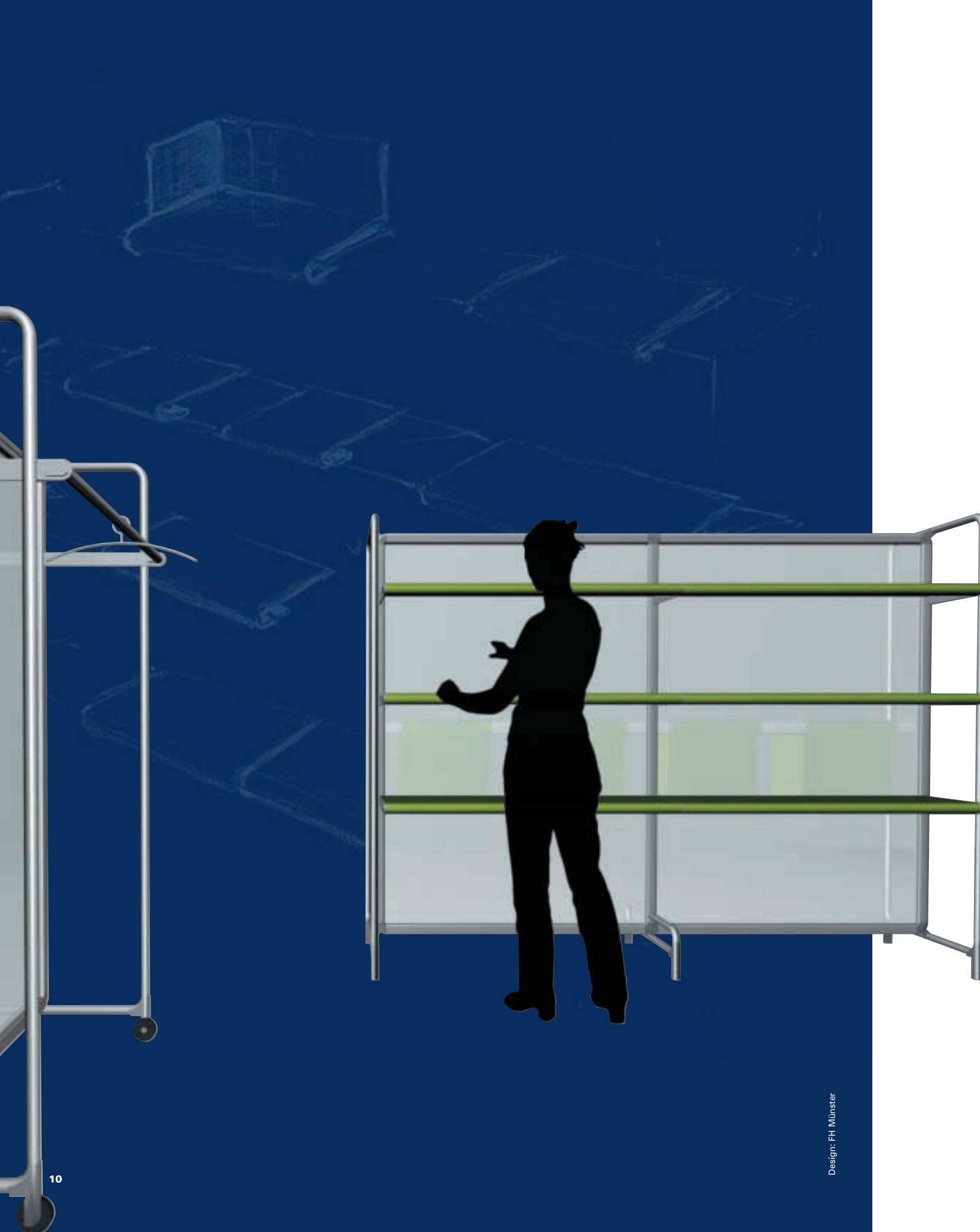


Design: FH Münster

For sanitary, sports and recreational facilities, for clinics, at home and for many other applications



Design: Kay Thoss



## New solutions? You bet.

That everything is possible for you with Compact and Compact forming elements we have already demonstrated on the preceding pages. But the possible applications are not by any means exhausted with that.

CFF keeps on pointing out new avenues in the context of design and construction studies carried out in cooperation with designers and universities.

In cooperation with manufacturers of many different materials ranging from metal to synthetic materials, we implement interesting new combinations and designs.

CFF also professionally accompanies and supports product developments carried out by our customers.

Highly qualified and motivated employees find means of expression for your ideas and concepts. Our modern machinery guarantees a maximum of efficiency and precision in production.

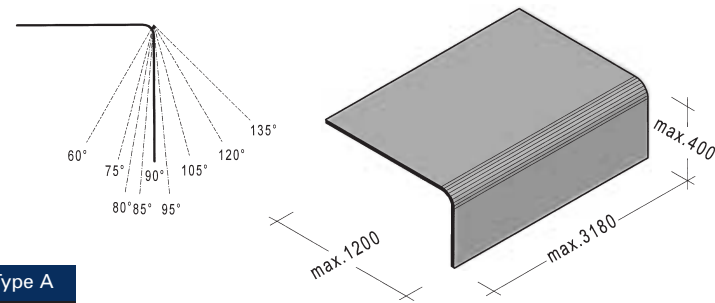
In this way, each processing stage provides you with high-quality products that are suited to your individual needs. A definitive advantage for your economic efficiency and your customers' satisfaction.

## The technology!

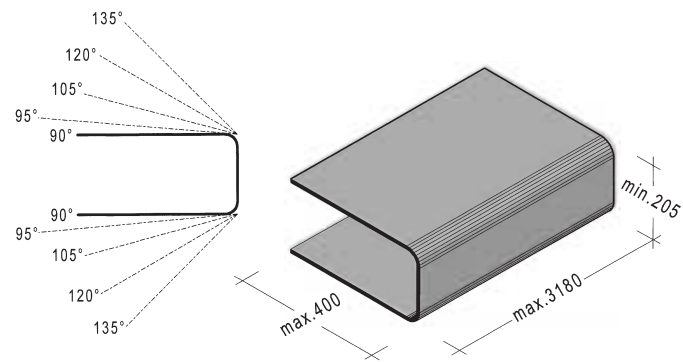
CFF has already implemented projects with Compact forming elements together with customers from many different fields. However, thanks to the excellent properties with regard to resistance, cost-effectiveness and design, we also keep on opening new and innovative areas of application. We will gladly advise you if you too are looking for an extraordinary material to realise your extraordinary ideas.

### Examples of possible applications:

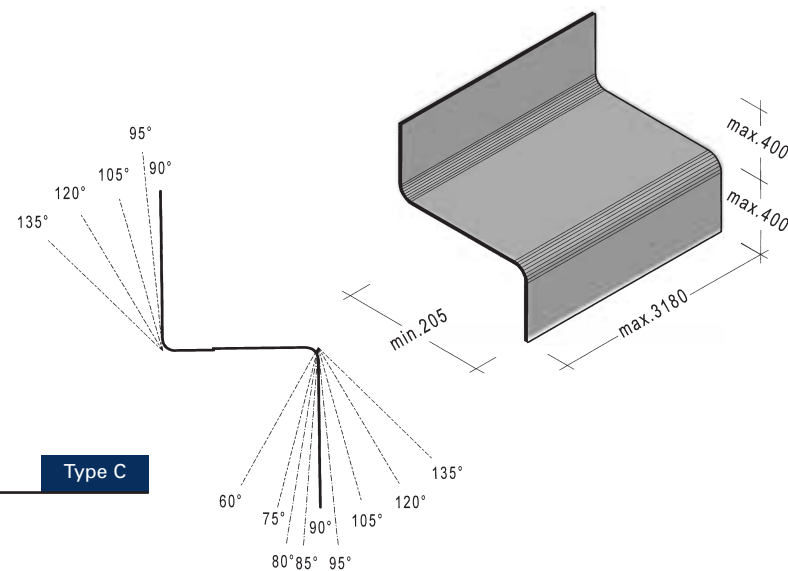
- Wall panelling
- Column panelling
- Sanitary cabins
- Lavatories and shower cabins
- Window sills
- Wall protection panels
- Door soffits and frames
- Wash-stand elements
- Panelling for plumbing and wiring
- Counters and work surfaces
- Lamp screens
- Kitchen front panels and worktops
- Stair railings
- Moulded parts for benches
- School and nursery school furniture
- Desk tops
- Cabinet systems
- Shop fitting systems
- Smaller items of furniture and many more ...



Type A



Type B



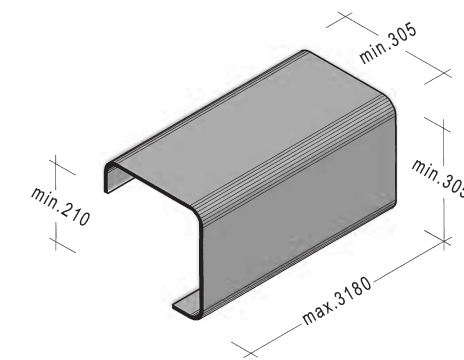
Type C

**Delivery options for Compact forming parts**

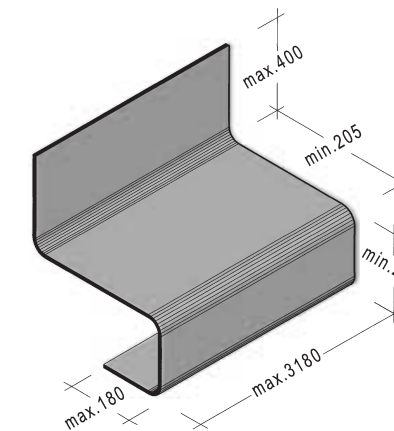
CFF moulded parts are custom-built. The manufacture of moulded parts is based on initial plate dimensions of 4100 x 1300 mm and 2800 x 1300 mm.

- Max. length of part: 3180 mm
- Max. uncoiling width: 1300 mm
- Inside radius of bend: 15,30,40,50 mm
- Min. folding flange height: 80 mm  
(can be cut back to min. outside radius + 10 mm)
- Max. folding flange height: 370 – 400 mm  
(depending on bending angle)
- Bending angle: 60°, 75°, 90°, 105°, 120°, 135°
- Bending angle: 80°, 85°, 95°  
(only with 30 mm inside radius)
- Material thickness: 6, 8, 10, 13 mm

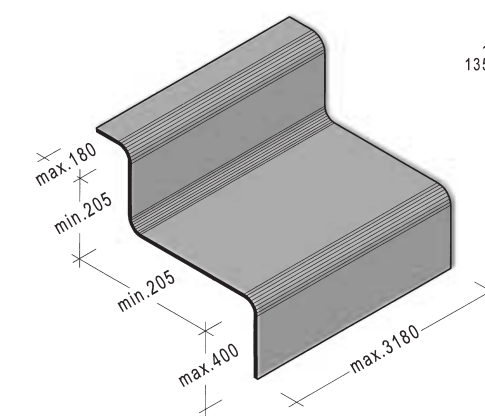
For available décors and surfaces, please refer to the current Max on top range



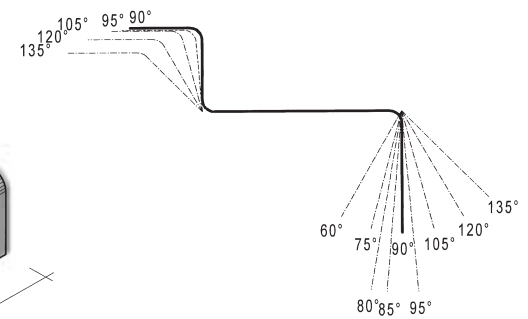
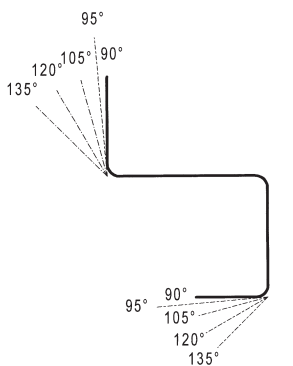
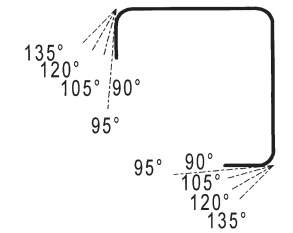
Type D



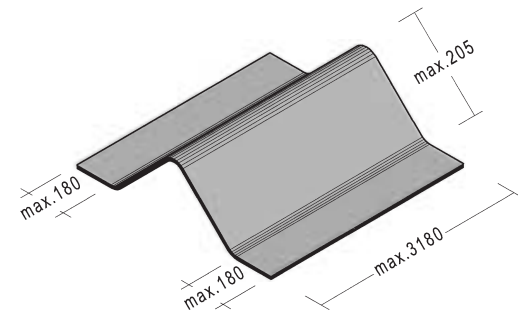
Type E



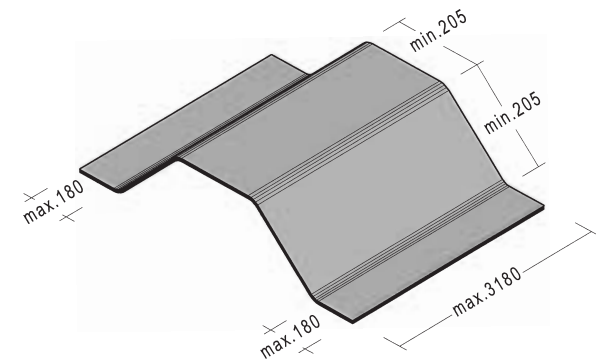
Type F



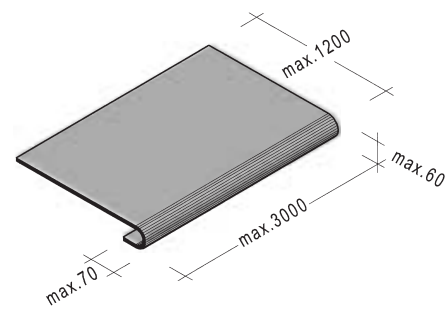
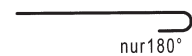




Type G



Type H



Type I

**Machining tolerances:**

Cutting to size at an extra charge:

Length cut:  $\pm 1.0$  mm

Slight tear-out possible, subsequent trimming necessary

Width cut:  $\pm 1.0$  mm

Parallelism of curves per bent part:  $\pm 1.0$  mm

Flatness deviations :

L-shape up to 1.00 mm / running metre

U-shape up to 2.0 mm / running metre

S-shape up to 2.0 mm / running metre

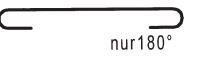
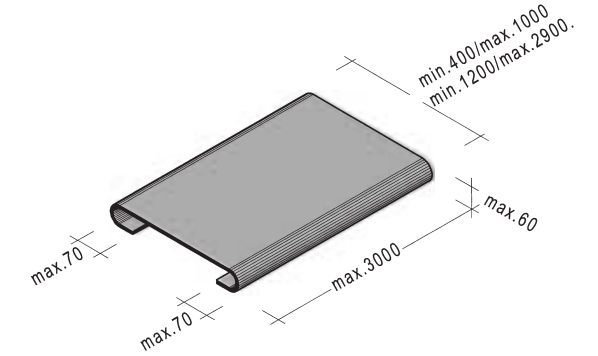
Angle deviation:  $\pm 1^\circ$

Dimensional stability under permanent heat: up to 80°

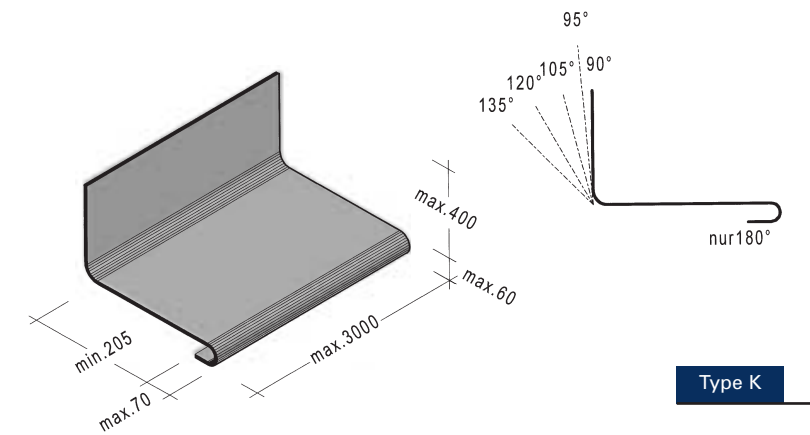
If necessary, restricting dependencies of bending angle and inside radius should be clarified for the individual case. Other bending angles and inside radii are available on request.



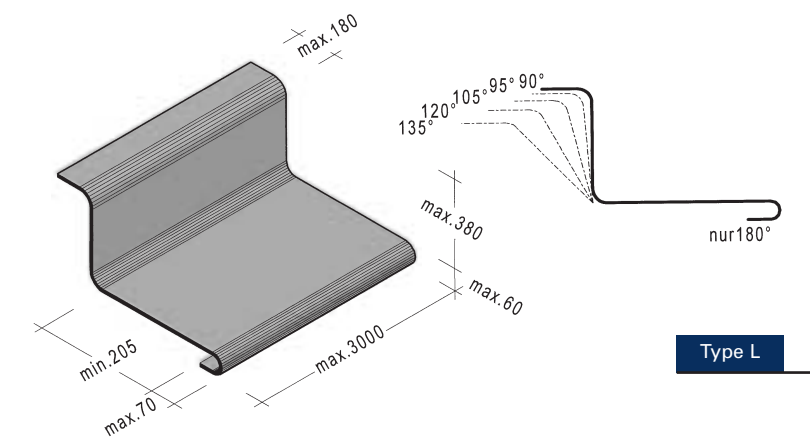
Detailed drawing of radii from type I to L



Type J



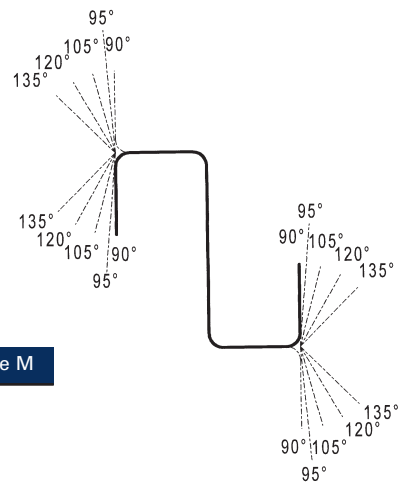
Type K



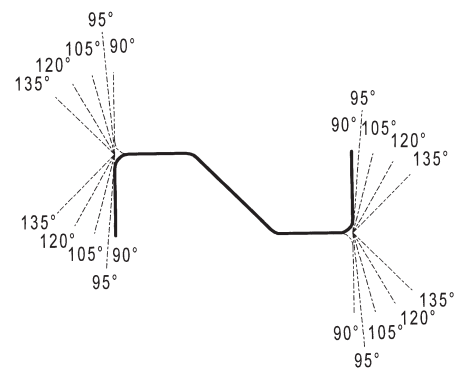
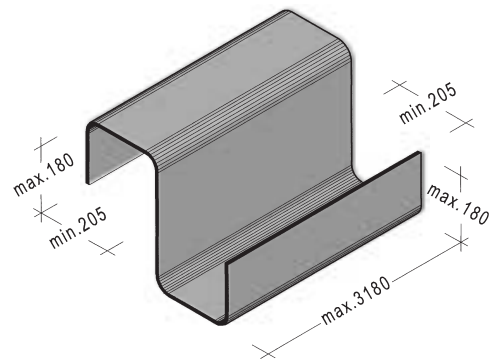
Type L



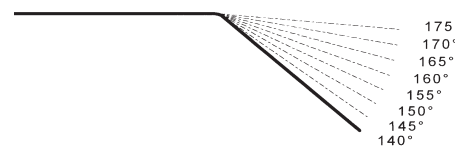
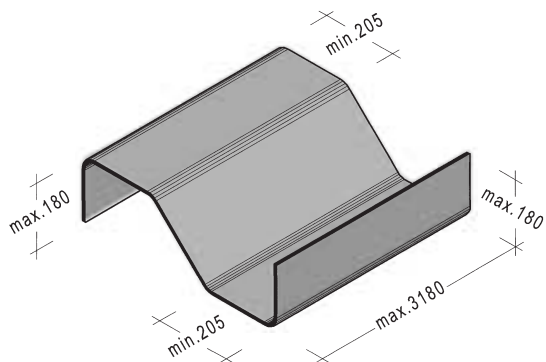
Design: Kay Thoss



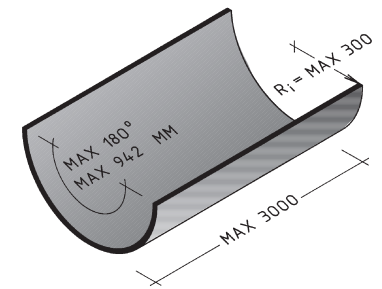
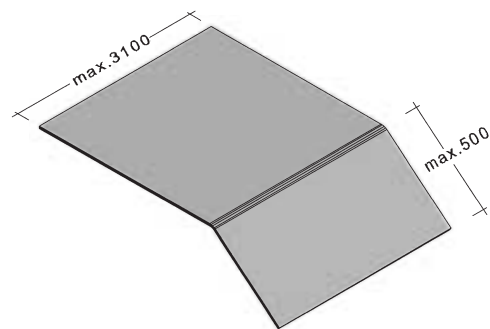
Type M



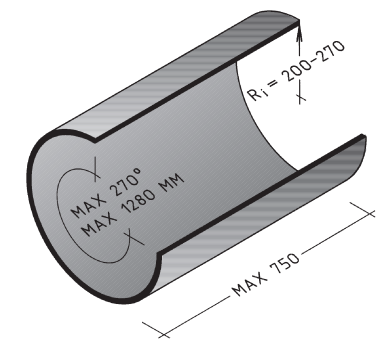
Type N



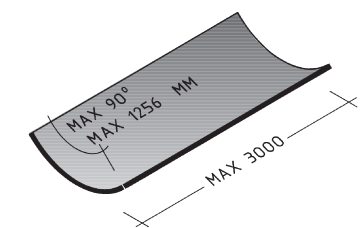
Type R



Type O



Type P



Type Q

**Moulded parts:**

Moulded parts according to type O-Q are custom-built with the aid of male and female moulds and thus involve proportional mould costs.

Apart from the cylindrical parts depicted, individually designed special parts are possible with a two-dimensional (and limited three-dimensional) distortion. Please do not hesitate to ask our technical experts for advice.



## **CFF GmbH**

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und -folding

Industriestrasse 1  
D-48249 Dülmen  
Postfach 1165  
D-48232 Dülmen

phone: 0049 (0) 25 94 / 780-0  
fax: 0049 (0) 25 94 / 780-30

mail: [info@cff-gmbh.de](mailto:info@cff-gmbh.de)  
web: [www.cff-gmbh.de](http://www.cff-gmbh.de)

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