



**DESIGN ELEMENTS**

**ANYTHING –**

**BUT NEVER AVERAGE**



## Closed Elements



## Puzzle Elements



## Element Collection

# THE ART

# OF CONTOURS

**SETTING ACCENTS.  
BREAKING WITH TRADITION.  
CREATING A SIGNATURE LOOK.**

In the course of looking for new impulses for designing and realizing creative space solutions we have developed a highly versatile product for interior construction, shop fittings and trade fair structures: our design elements.

Regardless whether you have us configure elements to bring your design concepts to life or you choose to select one of our ready-made solutions, our design elements will certainly be the cherry on top of any project.

## APPLICATIONS

interior construction

shop fitting

trade fair construction

furniture

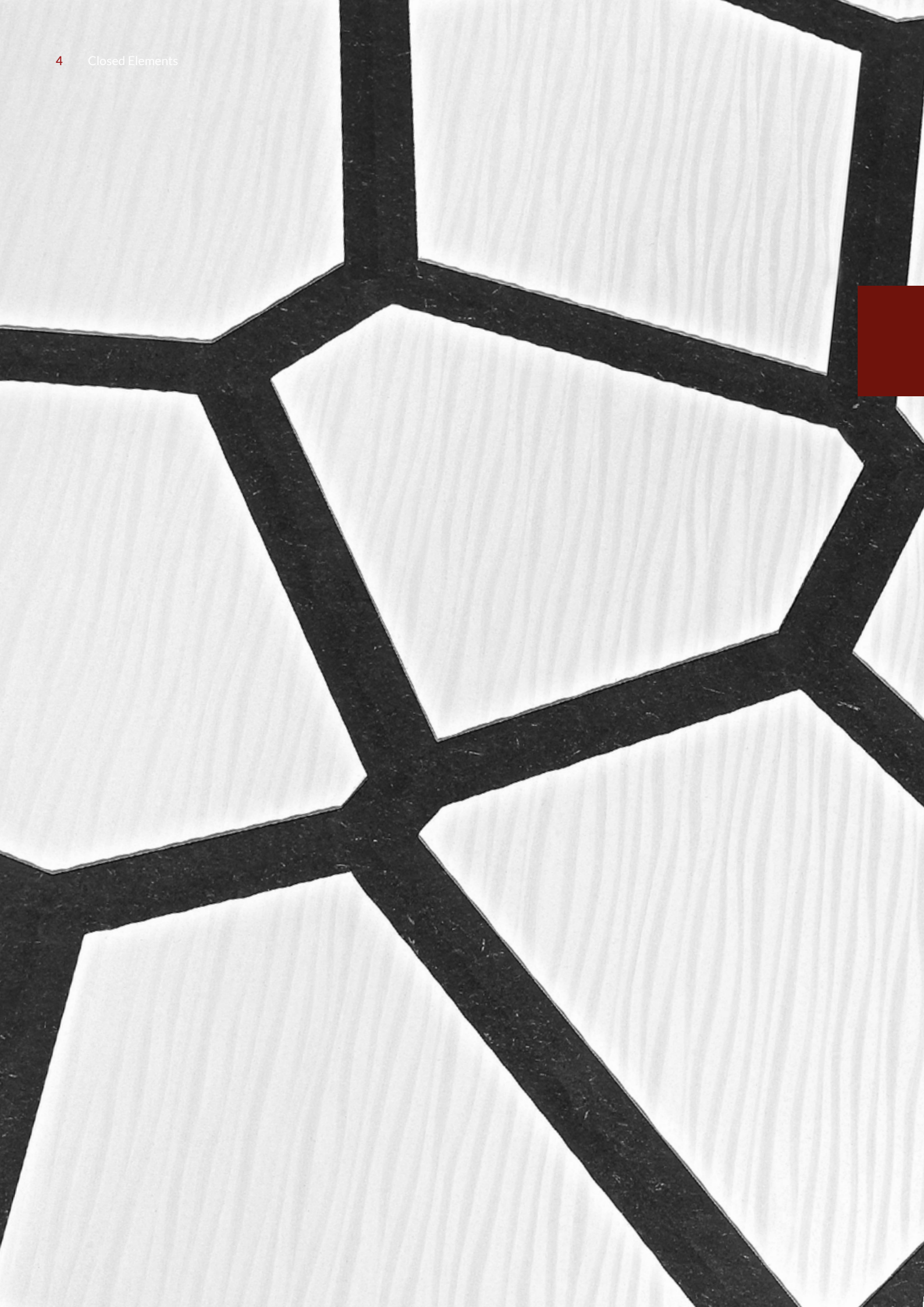
design components

wall paneling

room dividers

counter fronts

and many, many more...







**CLOSED**

**ELEMENTS**

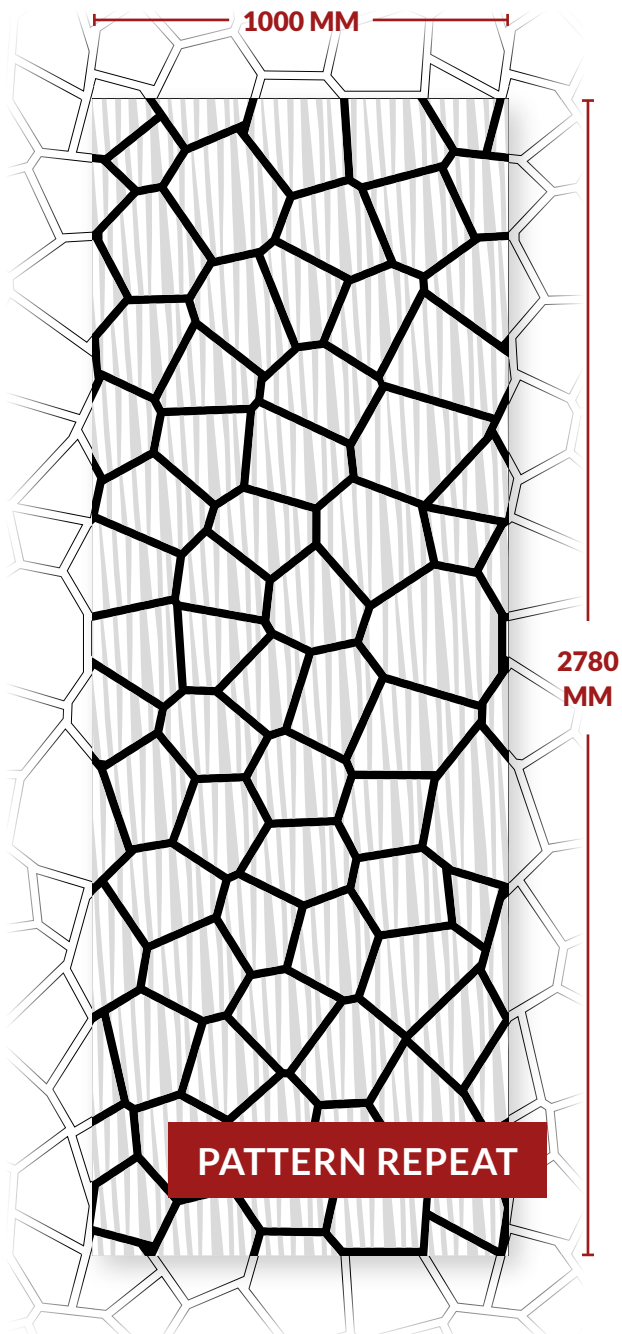
**GOOD THINGS**

**COME IN SERIES**

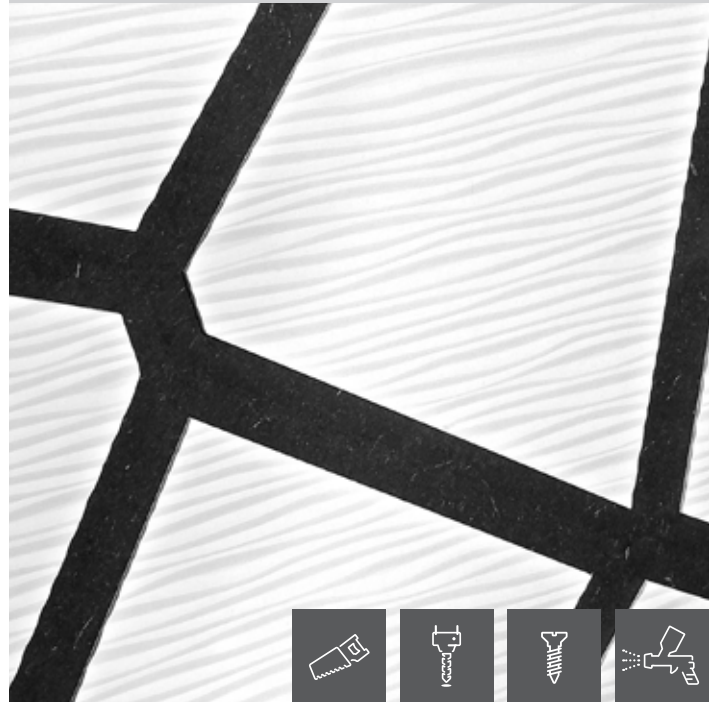


Based on the “Voronoi design” Ackermann has developed “Closed Elements” design panels with pattern repeat. These panels give every wall a fresh new look. Complementing the Voronoi pattern is a smooth wave surface whose silky elegance provides an intriguing contrast to the design’s austere lines.

The panels are produced in a standard size and can easily be trimmed, drilled, screwed and lacquered.



## DESIGN: ARCTIC



Material	max. element dimensions
Voronoi-wave CDF 12,5 mm	1000 x 2780 mm
individual	individual



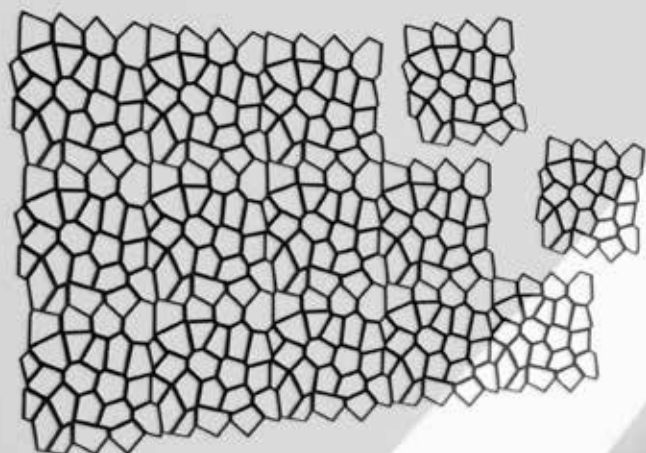




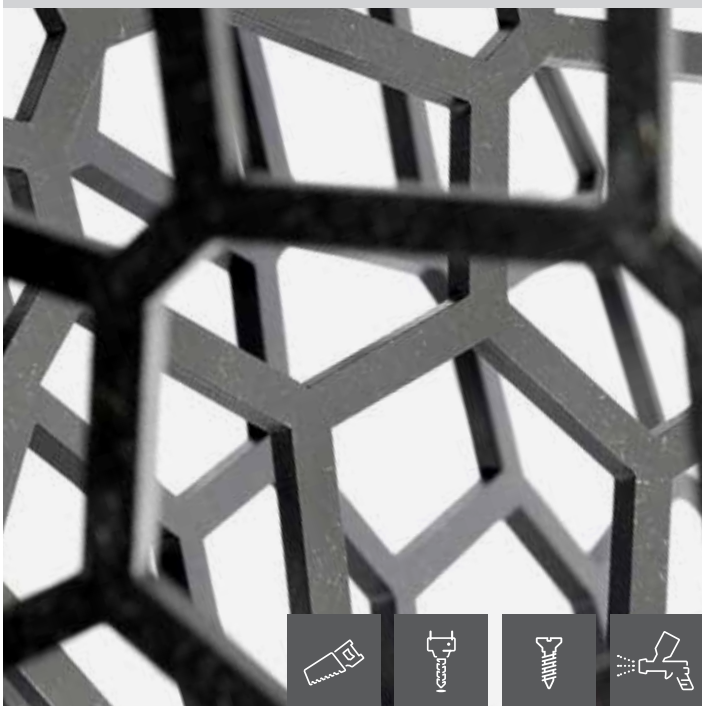


**PUZZLE**

**ELEMENTS**

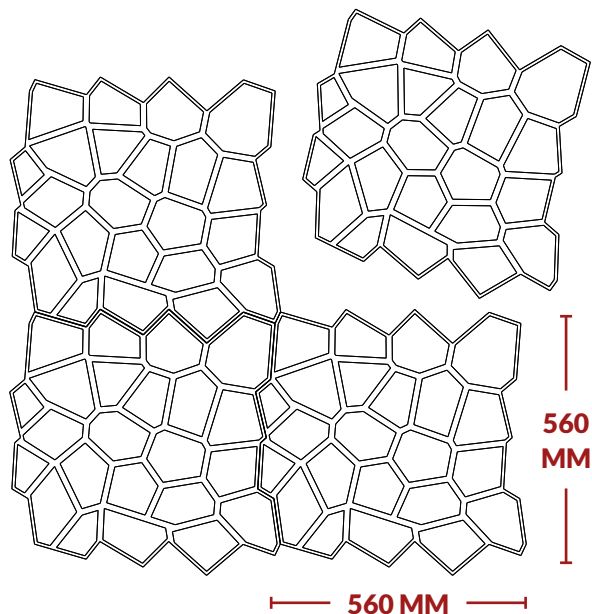


## DESIGN: VORONOI



Material	max. element dimensions
CDF-schwarz 10 mm	560 x 560 mm

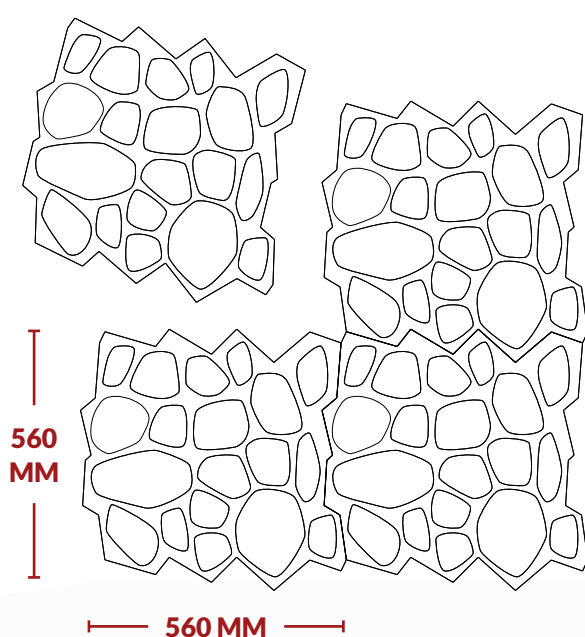
We now also offer our laser cut elements as standard repeatable panels. The standardized puzzle elements, while still having the Voronoi structure, can be arranged randomly – like a jigsaw puzzle whose pieces are all of the same shape and size.



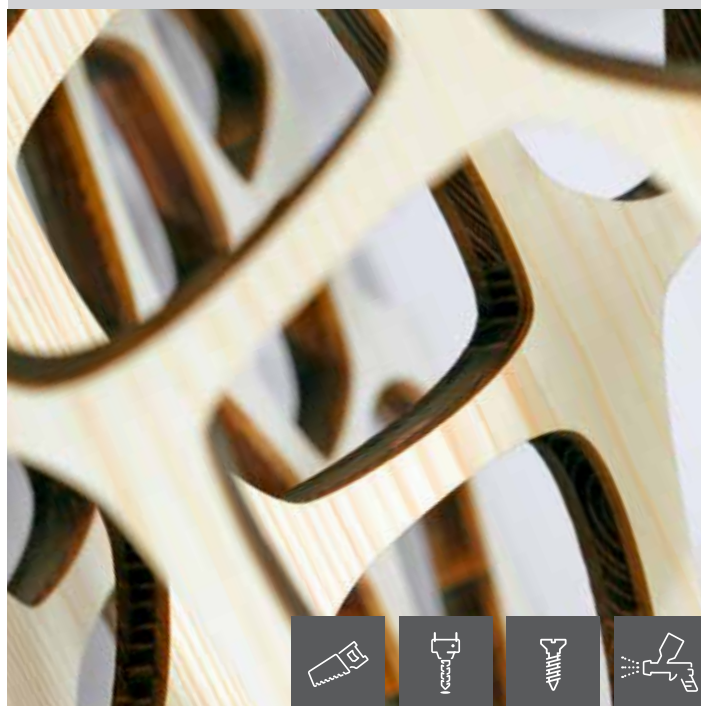


In addition to the well-known angular Voronoi structure made of Swiss CDF there is a wooden version (three layer board) available in our organic Tribal design.

Furthermore, the puzzle elements can be attached to a surface using commercially available double sided bonding tape.



## DESIGN: TRIBAL



Material	max. element dimensions
3-layer 18 mm	560 x 560 mm





**BRINGING NATURE'S SCENT**

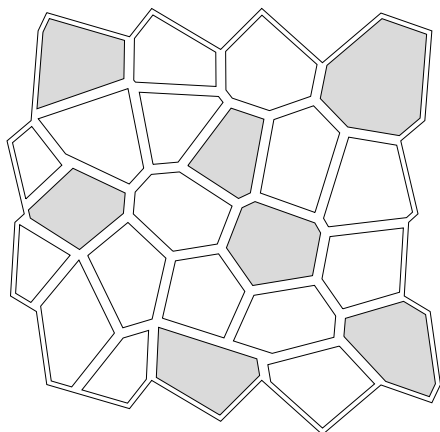
**INDOORS**



**ORGANOID TECHNOLOGIES**



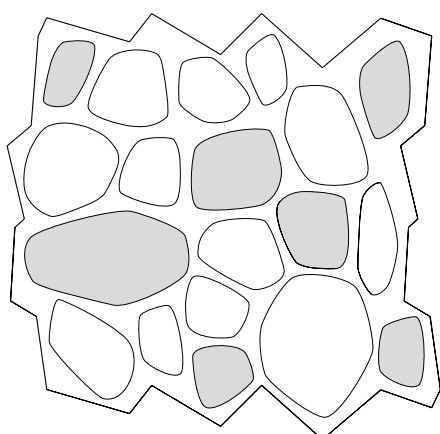
Our pattern repeat elements are quite unique. We have customized them further by filling in various spaces with naturally scented hand-cut Alpine hay.



### PATTERN REPEAT

Material	max. element dimensions
CDF-black 10 mm with slotting	560 x 560 mm

## DESIGN: VORONOI WILDSPITZE

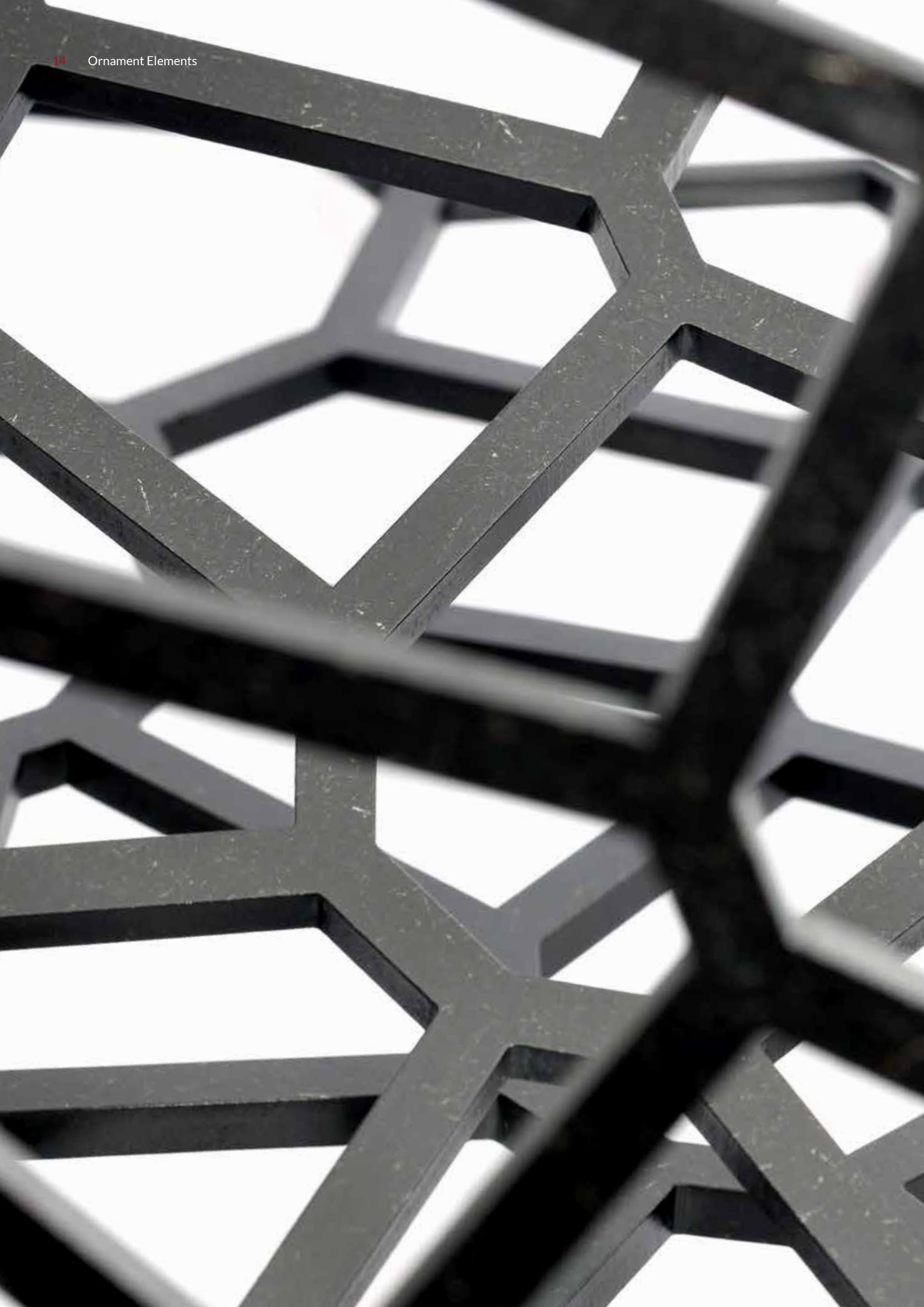


### PATTERN REPEAT

Material	max. element dimensions
3-layer 18 mm with slotting	560 x 560 mm

## DESIGN: TRIBAL LAVENDER







**ELEMENT**

**COLLECTION**



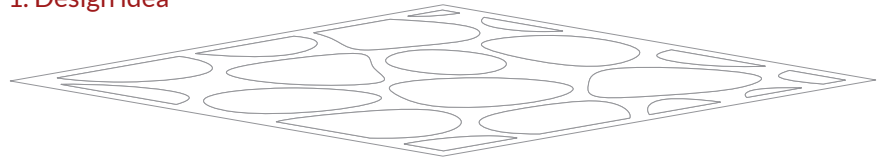
**A CLASS**

**OF ITS OWN**

# WHICH PATH SHALL WE TAKE TOGETHER?

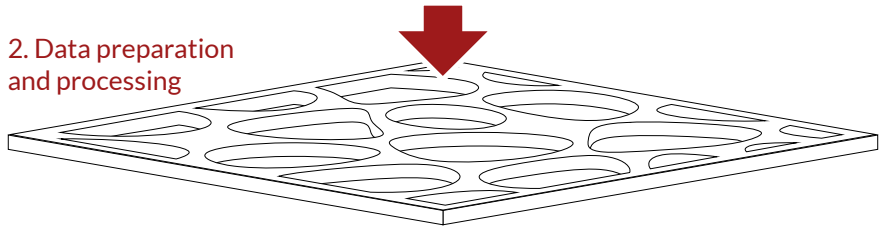
At the beginning is always the idea...

## 1. Design idea



... which must be translated into the correct "language" so that our machines know what they need to do. For your individual designs you can provide us the data in DWG/DXF-formats.

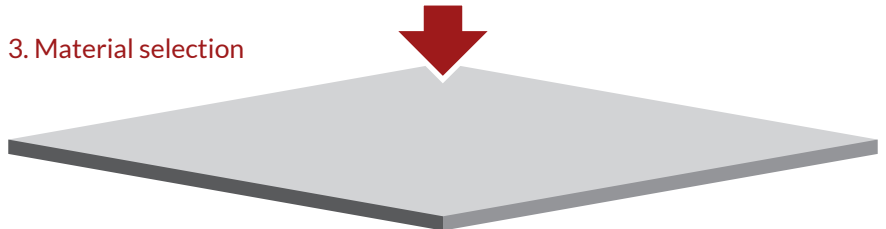
## 2. Data preparation and processing



The selection of the appropriate material:

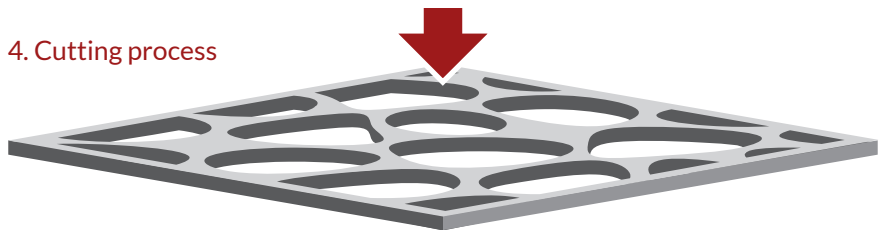
- mineral composites
- CDF
- 3-layer spruce
- aluminum
- and many more
- steel
- leather
- felt
- facade panels

## 3. Material selection



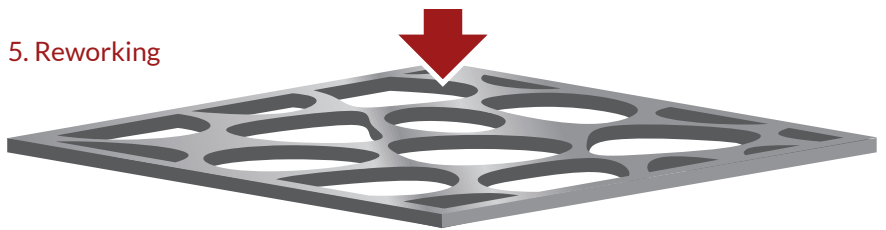
Whether using a CNC-milling machine, a robot or laser cutting, their high degree of precision guarantees the successful outcome of even the most complex shapes.

## 4. Cutting process



Depending on the area of application reworking may be recommended, e.g. beveling edges or special sanding.

## 5. Reworking



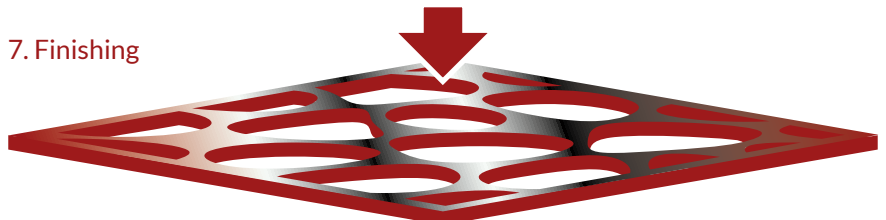
And quite often it is the color or coating that gives the final touch.

## 6. Coating



The result is a perfect design element "made in Germany".

## 7. Finishing

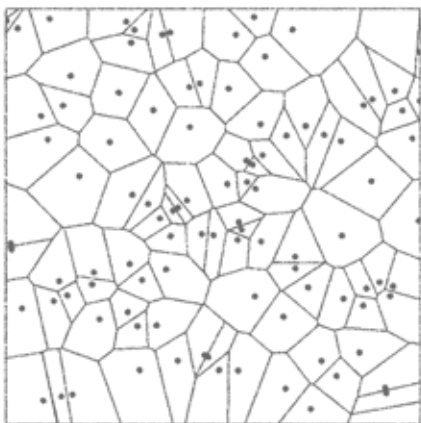






**FROM POINTS**

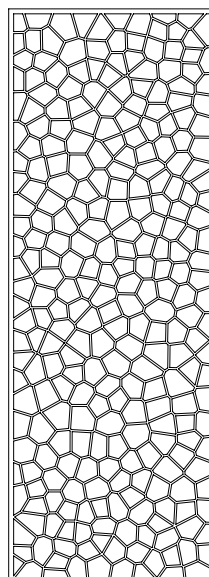
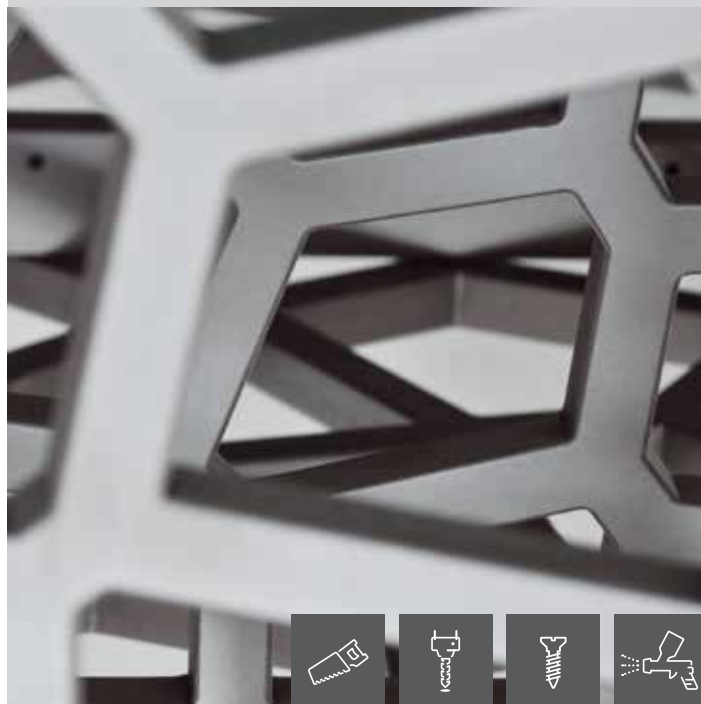
**TO PLANES**



**GEORGI  
FEODOSJEWITSCH  
VORONOI ...**

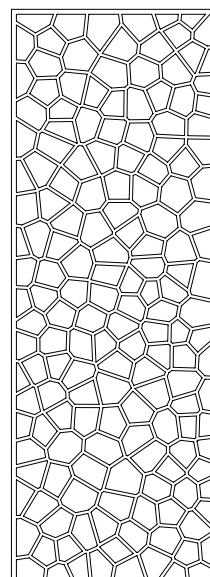
... was a Russian mathematician who caused a sensation over 100 years ago with a formula describing the bisecting line between randomly set points. Applying this formula to a plane with points creates the diagram pattern appropriately named after him.

**DESIGN:  
VORONOI**



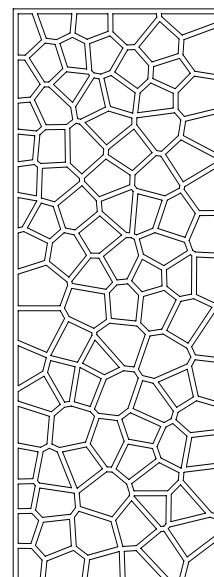
**TYPE  
MINOR**

Cells/m<sup>2</sup>: approx. 100  
Profile width: 10 mm  
Edge: 24 mm  
Cell size: approx.  
100 x 100 mm



**TYPE  
MEDIUM**

Cells/m<sup>2</sup>: approx. 60  
Profile width: 16 mm  
Edge: 24 mm  
Cell size: approx.  
150 x 150 mm



**TYPE  
MAJOR**

Cells/m<sup>2</sup>: approx. 35  
Profile width: 24 mm  
Edge: 24 mm  
Cell size: approx.  
200 x 200 mm

Material	max. element dimensions
CDF-black 10 mm	2000 x 2780 mm
CDF-black 16 mm	2000 x 2780 mm
3-layer 18 mm	2480 x 2490 mm
Mineral composites	on request





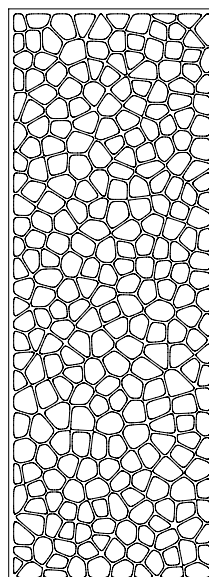
**BACK**

**TO THE ROOTS**



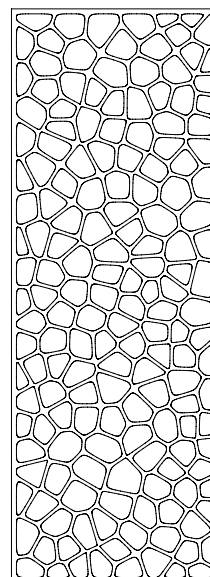
“Tribal” is a further development of the Voronoi pattern. It differs only in the cells’ larger corner radius. The result is, in contrast to the “Voronoi” pattern, a more organic look.

## DESIGN: TRIBAL



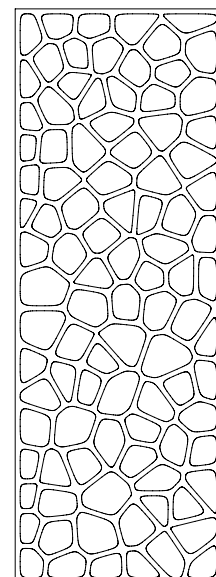
### TYPE MINOR

Cells/m<sup>2</sup>: approx. 100  
Profile width: 10 mm  
Edge: 24 mm  
Cell size: approx.  
100 x 100 mm



### TYPE MEDIUM

Cells/m<sup>2</sup>: approx. 60  
Profile width: 16 mm  
Edge: 24 mm  
Cell size: approx.  
150 x 150 mm



### TYPE MAJOR

Cells/m<sup>2</sup>: approx. 35  
Profile width: 24 mm  
Edge: 24 mm  
Cell size: approx.  
200 x 200 mm

Material	max. element dimensions
CDF-black 10 mm	2000 x 2780 mm
CDF-black 16 mm	2000 x 2780 mm
3-layer 18 mm	2480 x 2490 mm
Mineral composites	on request

**A THOUSAND AND ONE**

**IDEAS**





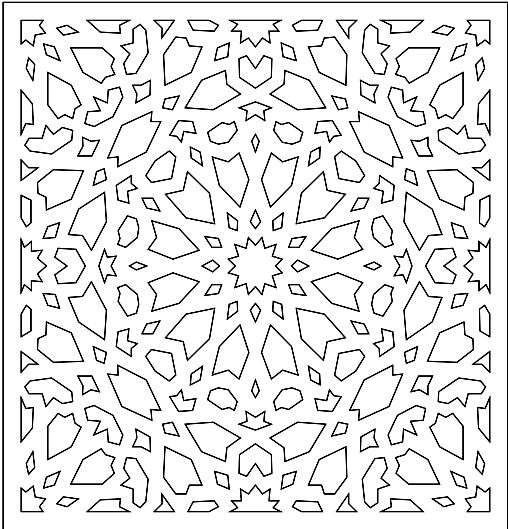


DESIGN:

ORIENTAL



Material	max. element dimensions
CDF-black 10 mm	2000 x 2780 mm
CDF-black 16 mm	2000 x 2780 mm
3-layer 18 mm	2480 x 2490 mm
Mineral composites	on request





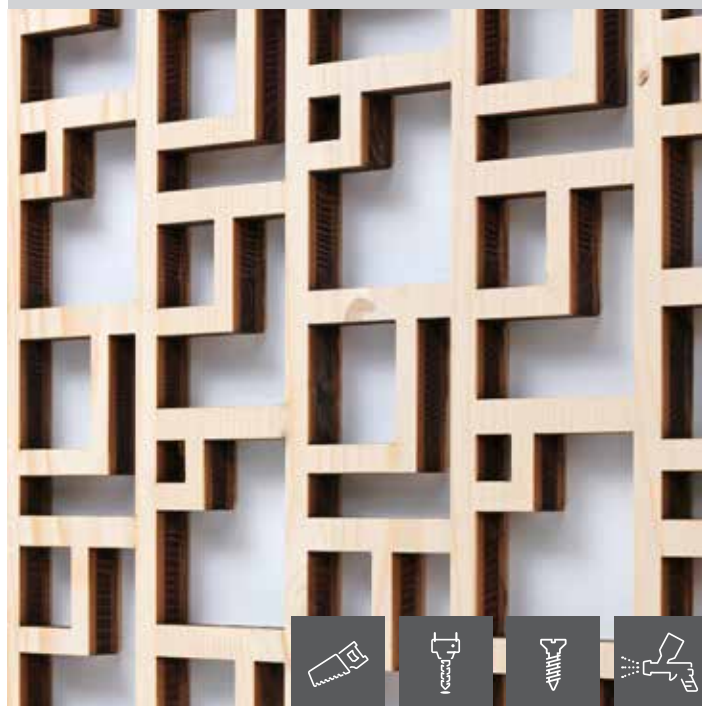
**JUST AROUND**

**THE CORNER**

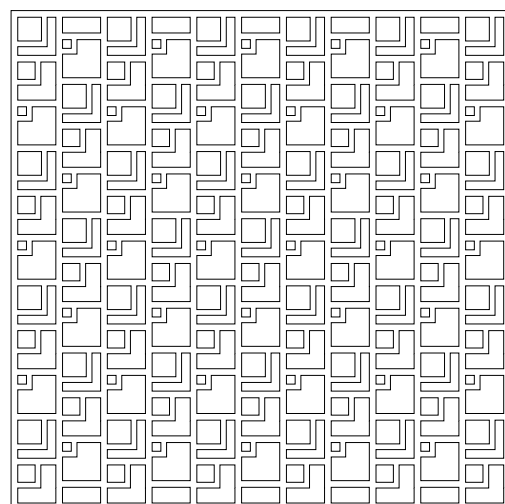




## DESIGN: CORNER



Material	max. element dimensions
CDF-black 10 mm	2050 x 2780 mm
CDF-black 16 mm	2050 x 2780 mm
3-layer 18 mm	2480 x 4980 mm
Mineral composites	on request

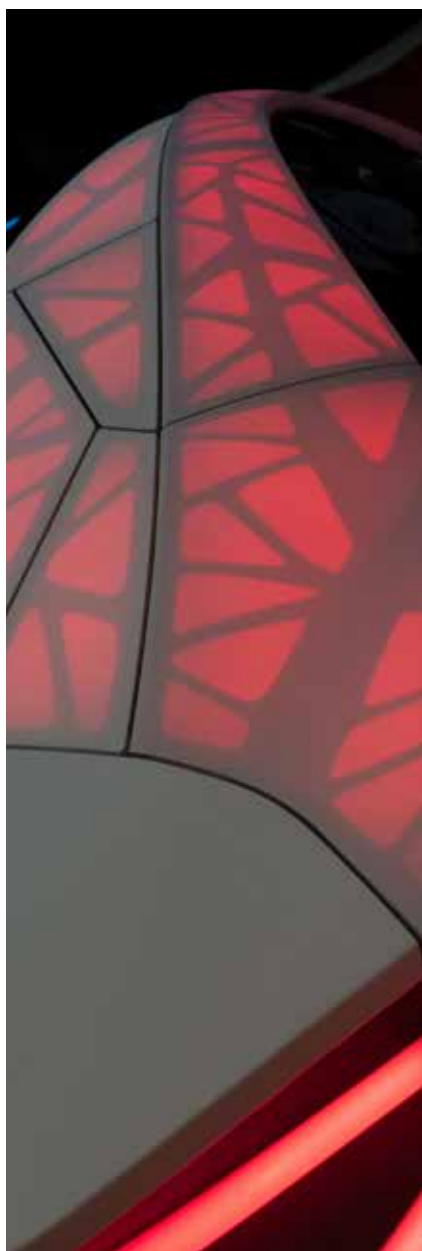




# IN YOUR

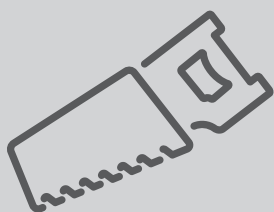
# INTEREST

Products “off the rack” may be practical and cost-effective yet there are times when the only option is a creative customized solution. Our manifold production processes know virtually no limits when it comes to our transforming your ideas into reality.



## USEFUL INFORMATION

## SAWING



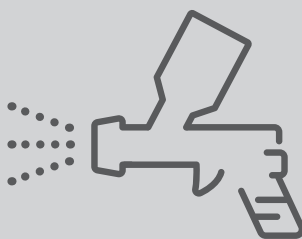
## DRILLING



## SCREWING



## COATING



The surface of the raw panel can be ground and primed with a clear coat. After intermediate sanding the panel can be lacquered. We recommend using compressed air to clean the open spaces before applying the primer.

Sanding of the open spaces is not necessary thanks to the high density properties of the CDF-panel.

Simple and easy processing without increased wear of woodworking equipment. After laser cutting the edges are slightly blackened.

Shrinkage per meter is roughly 0.1 %.

The coated surface can be cleaned with a slightly damp cloth.

For indoor use only. For outdoor use on request.

## Contact

## Ackermann GmbH



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**SHAPING.**

**CREATING.**

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