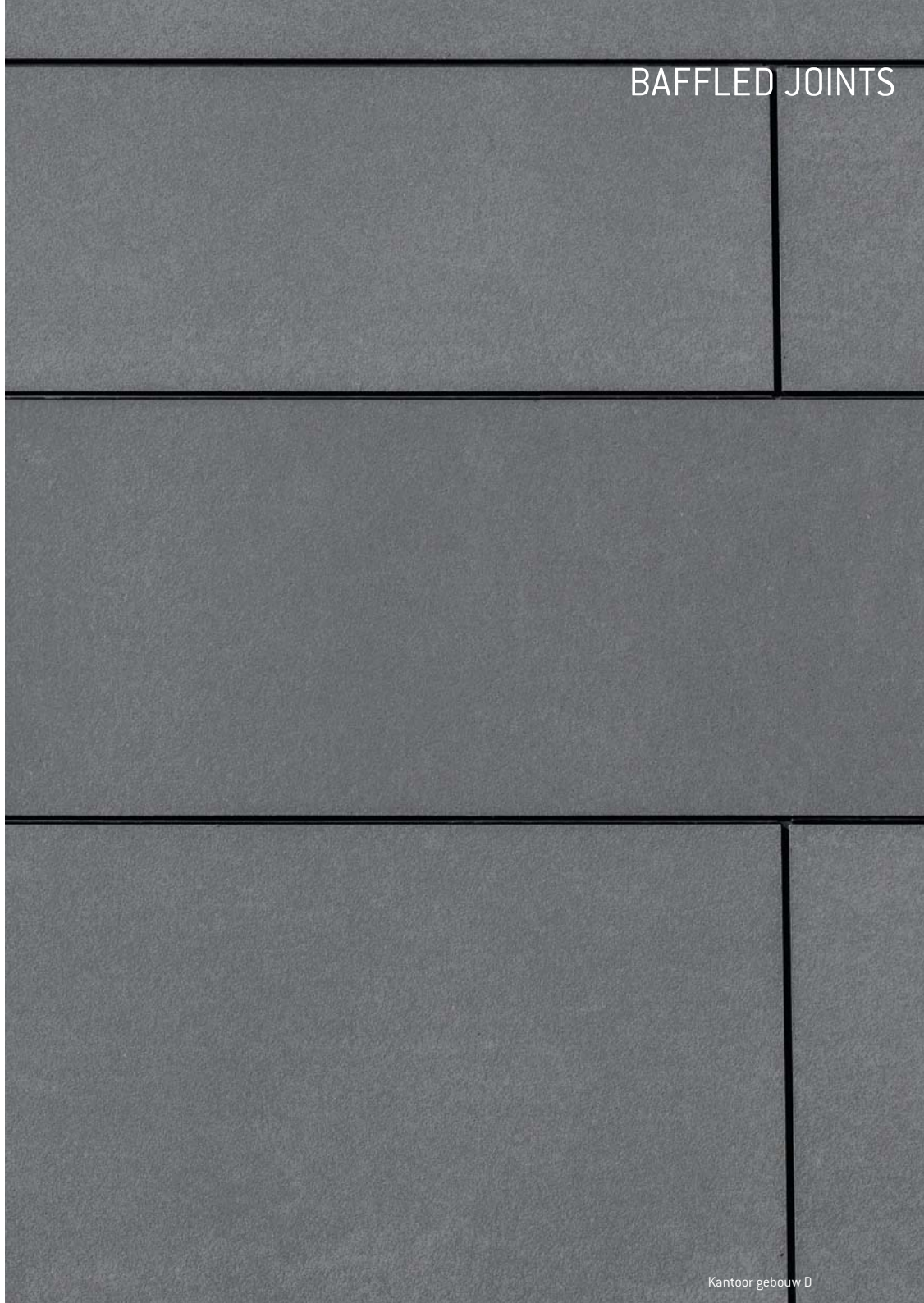
COVERED JOINTS

Arch.: HUB Architects - Antwerpen (BE)

BAFFLED JOINTS



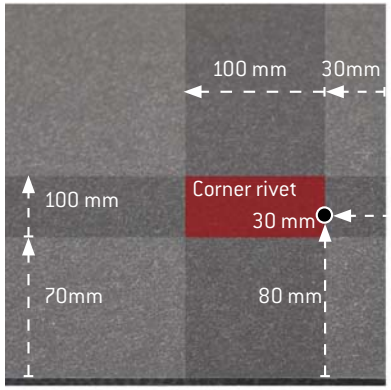
Kantoor gebouw D

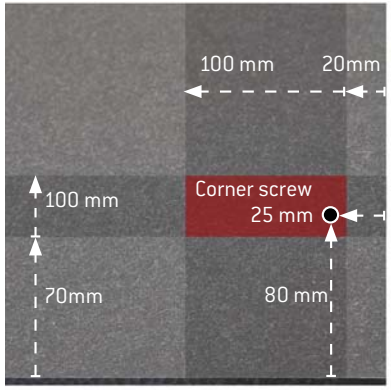
5.0 Fixings

1. Face Fixings

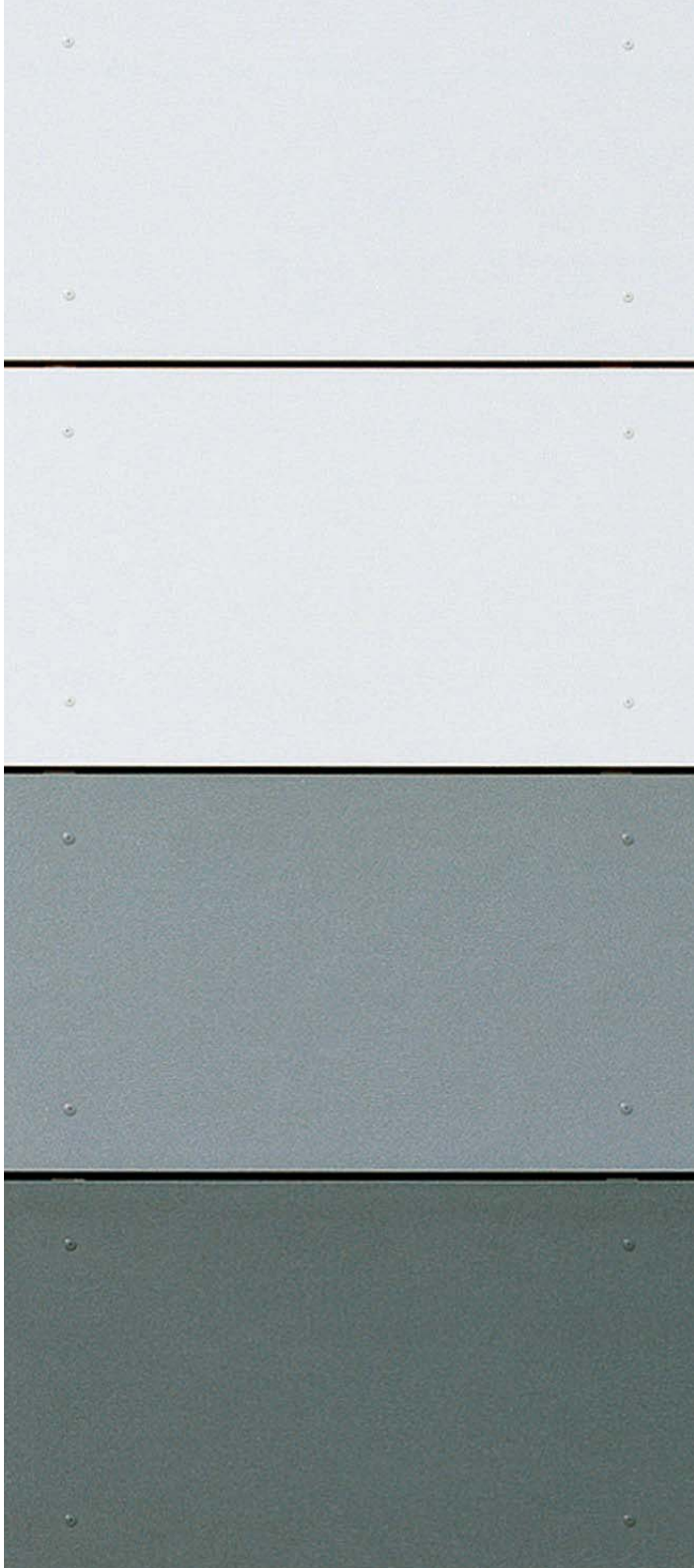
EQUITONE panels can be face fixed using EQUITONE UNI-rivet for metal support frames or the EQUITONE UNI-screw when a timber support frame is used.
All fixings are available with colour match heads to blend in with the panel.
The rivets and screws are both low profile heads.
The fixing systems are designed to accommodate the expansion and contraction of the support frame without putting excessive stresses on the panel.
The fixings are positioned at centres to suit the wind load the façade will be subjected to. Normally centres are up to 625mm and will reduce as determined by the wind calculations.

The corner position of the fixings should be located within the red box.





Refer to Uni rivet and screw fixing guides for full information.



5.0 Fixings

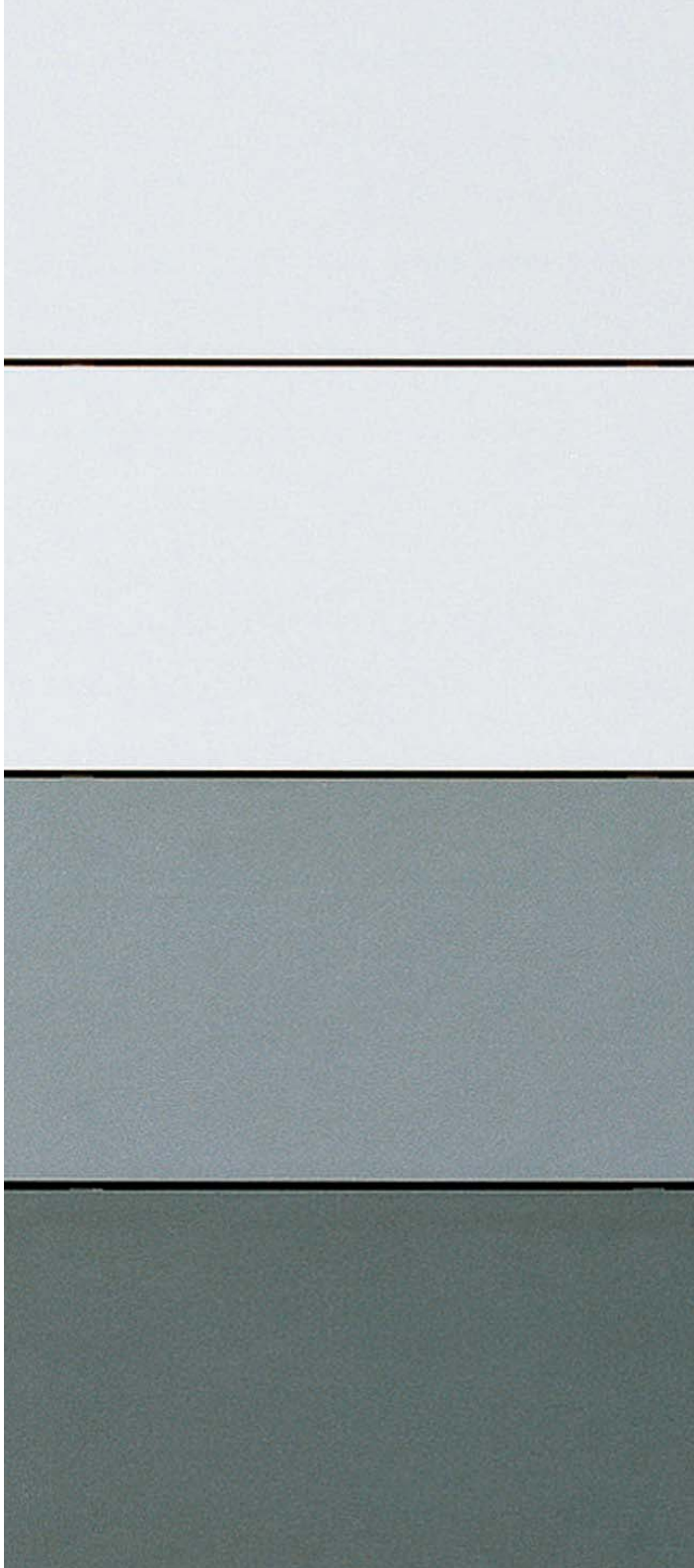
2. Hidden Fixings

For hidden fixings a mechanical system is possible. Please note that this is a precision fixing system and a good knowledge of fabrication and installation is critical to ensure a successful facade.

Mechanical Secret Fix

The mechanical hanging system utilises an undercut anchor which is secured in the rear of the panel in specially drilled holes. To this a hanger bracket is fixed. This hanger then interlocks with a horizontal rail.

* Refer to the individual mechanical hanging systems installation literature for details. This system is suitable for EQUITONE [tectiva], EQUITONE [linea], and 12mm EQUITONE [natura], EQUITONE [natura PRO], EQUITONE [pictura], EQUITONE [textura] and EQUITONE [materia].



6.0 Support frame

EQUITONE panels are strong yet light, which reduces the amount of supporting frame needed compared with other materials. Certification for the structural stability of any supporting frame should be in accordance with local building regulations and must be obtained by the building's owner or his representatives namely the project engineer.

Common Support Frame Materials

Aluminium
Galvanised Steel
Timber

7.0 Backing wall

Structural Wall

The backing wall is critical to the performance of a ventilated facade system. If air movement through the backing wall is too great then the risk of water penetration is increased. Air leakage through the backing wall also presents a path for energy loss, and so must be limited.

Joints in metal support frame must coincide with a panel joint.

8.0 Special applications

General

While EQUITONE panels are used as a facade cladding, they can also be used in other applications.

1. Perforations

Perforations may take the form of round holes, slots, square, rectangular holes or random shaped holes.

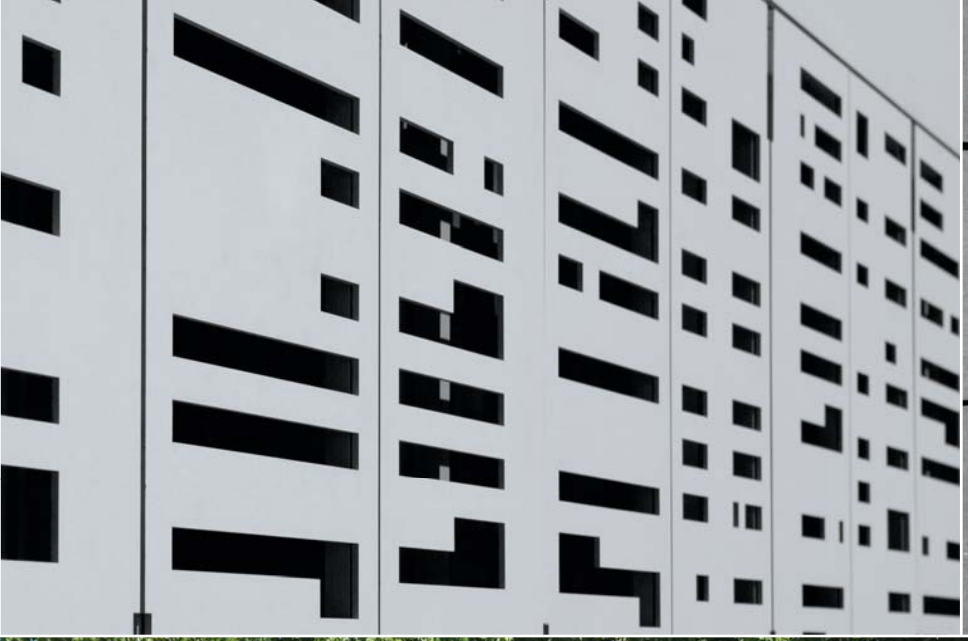
2. Extreme cuttings

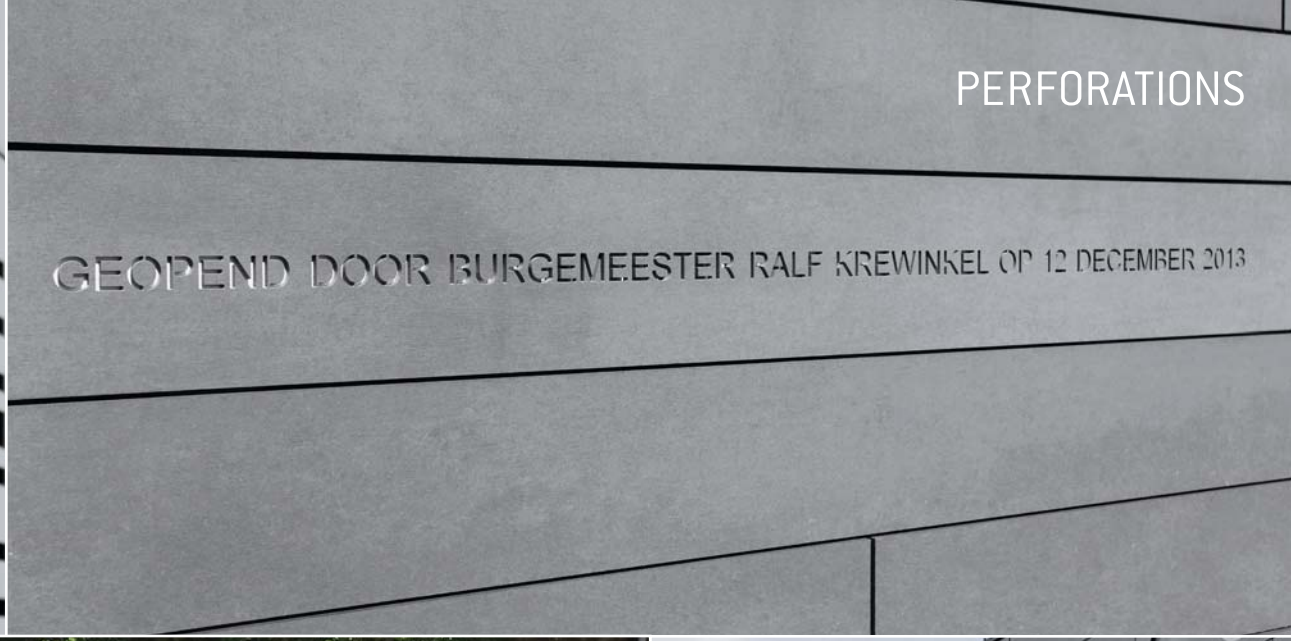
3. Milled surfaces

4. Curved Walls

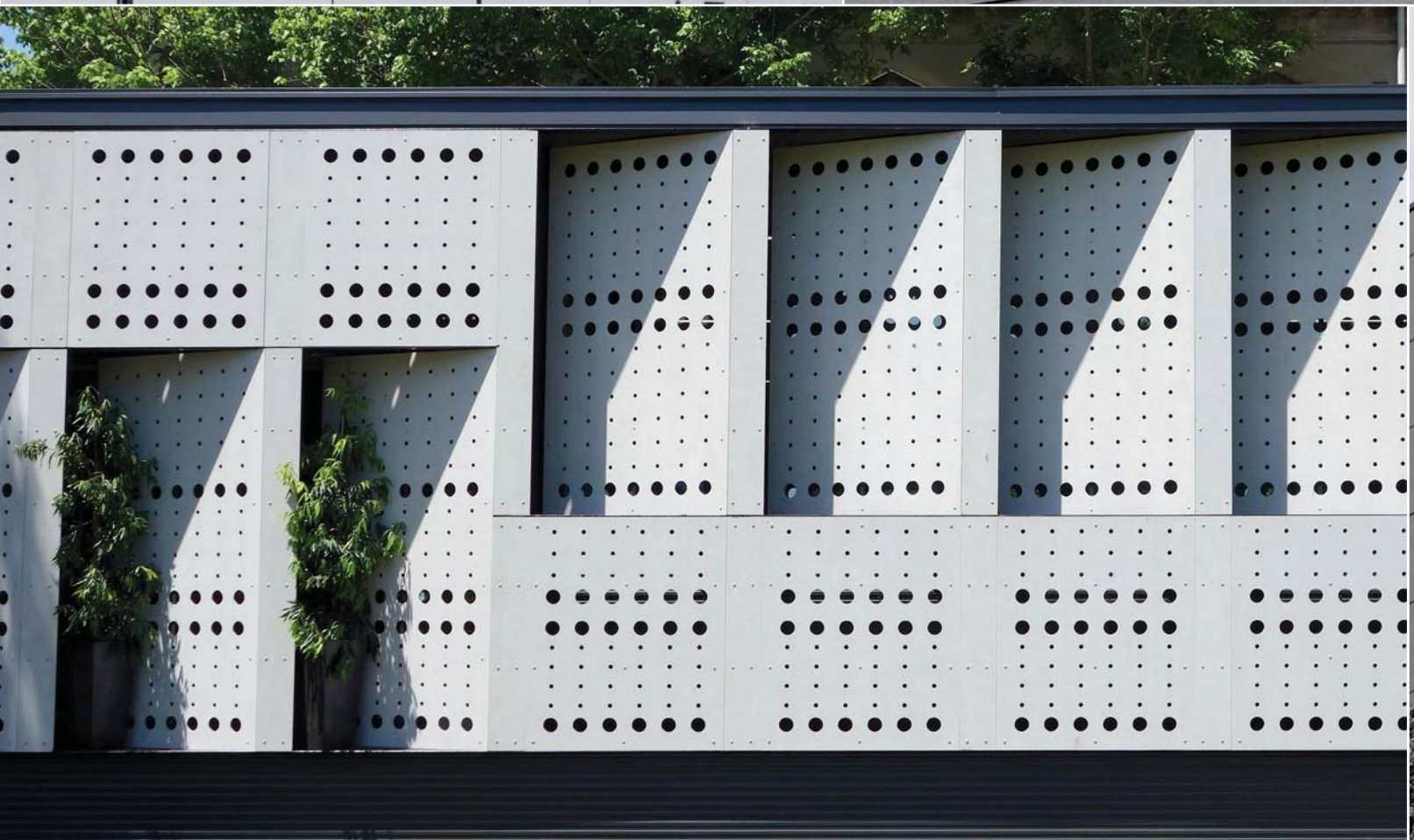
EQUITONE panels are flat. However it is possible to ease them around a curved facade. Note that the orientation of the panel is also critical.
A horizontal panel bends easier than one placed vertically.
The minimum radius that an 8mm EQUITONE panel can be UNI-rivet or UNI-screw fixed to a curving facade is 12.0m.

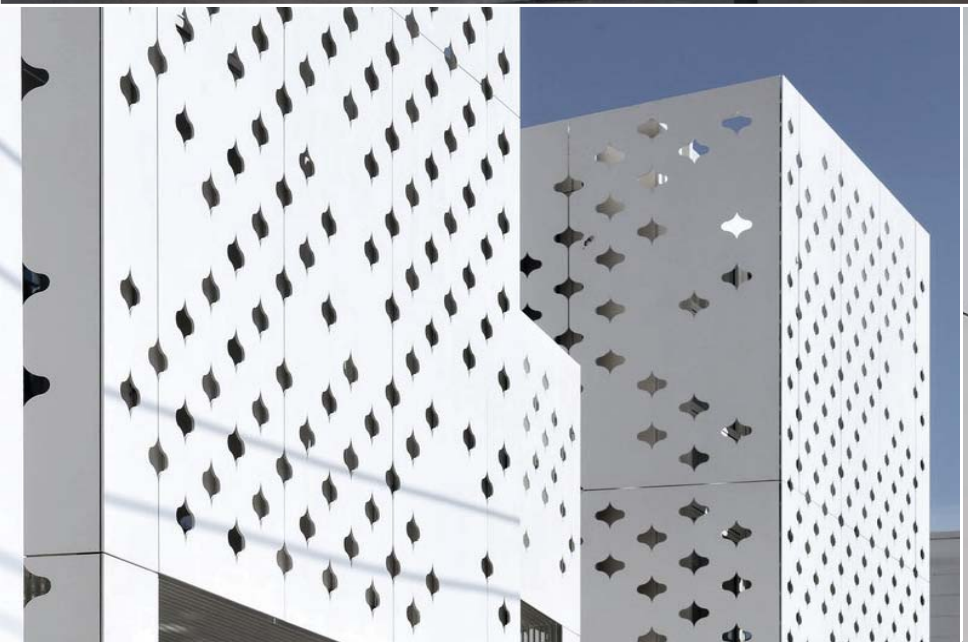
Please contact your local EQUITONE Service team for more assistance.





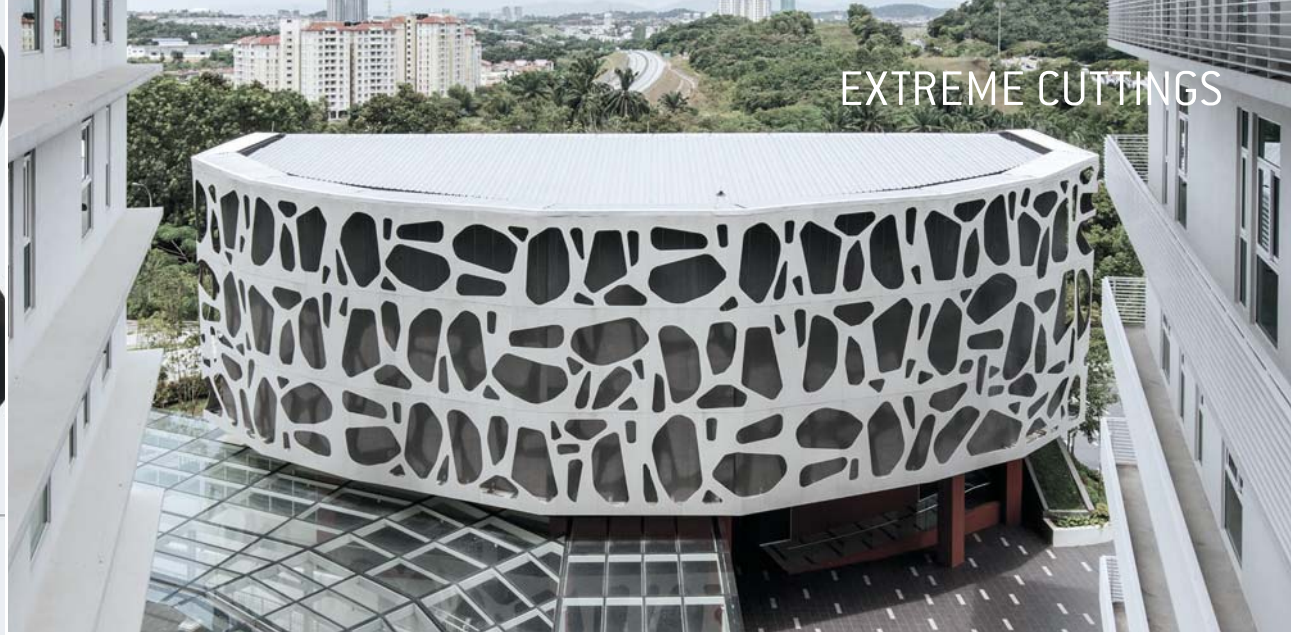
PERFORATIONS





MILLED SURFACES

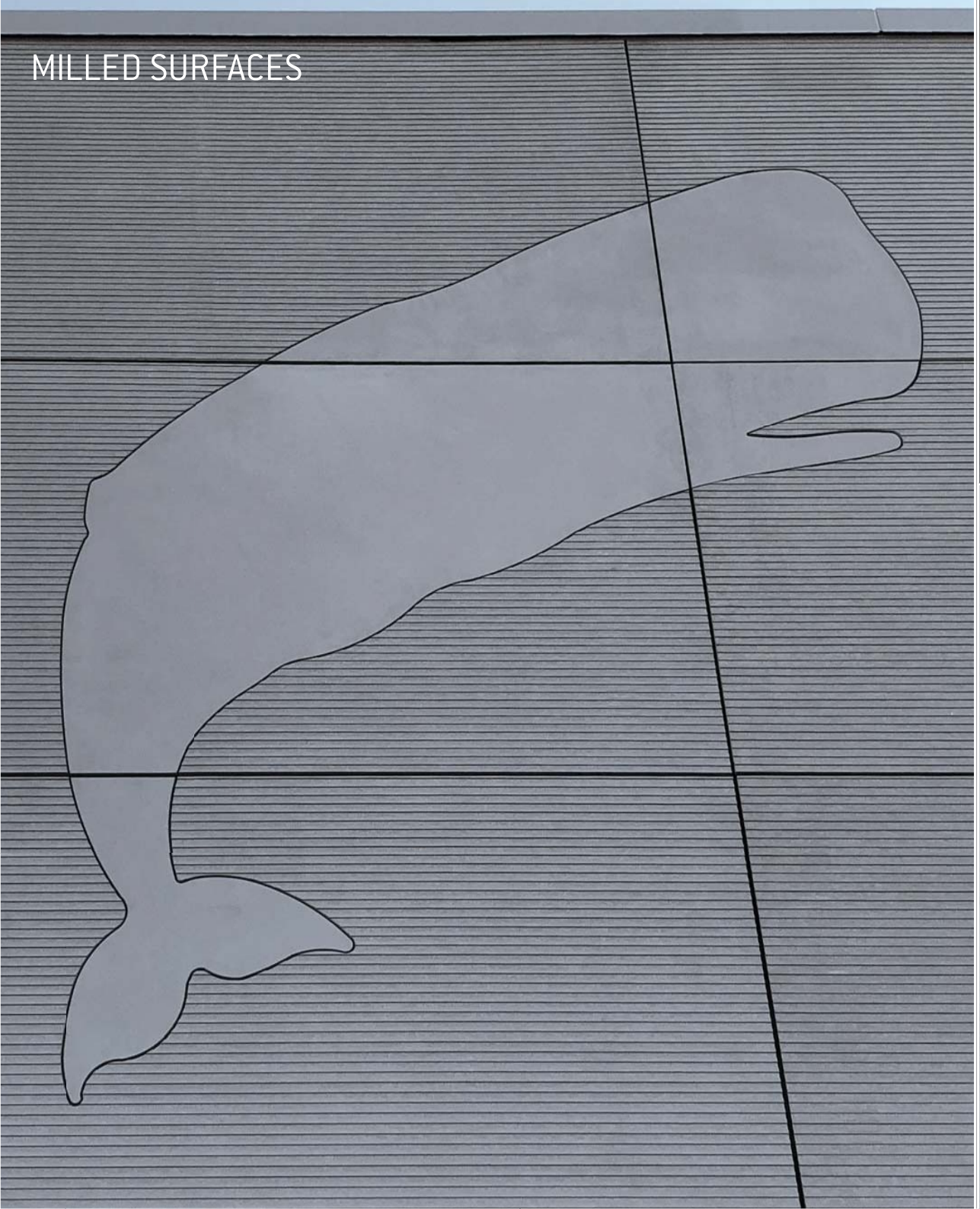
Arch.:Zwischenräume Architecten und Stadtplanner GmbH, Munchen (DE)

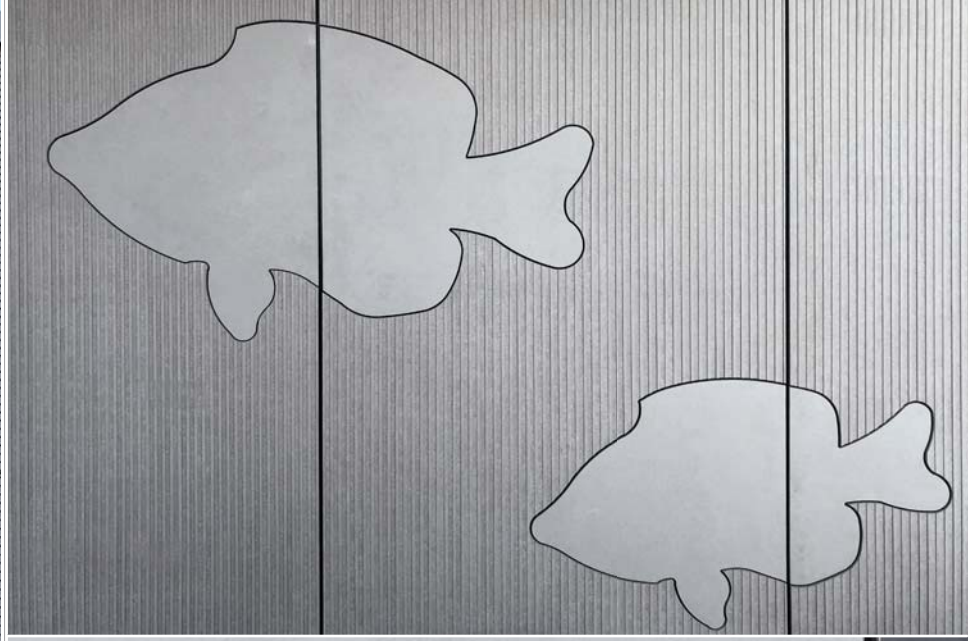


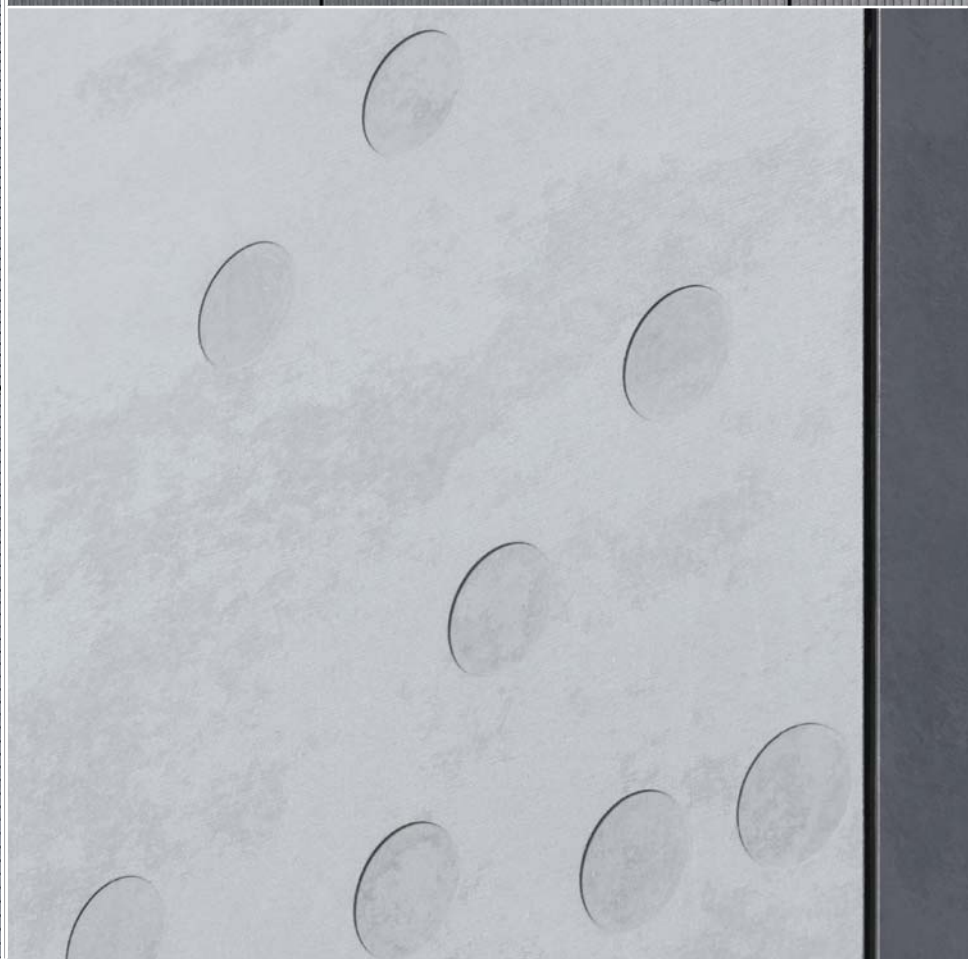
EXTREME CUTTINGS

NWKA Architects Malaysia

MILLED SURFACES







CURVED WALLS

8.0 Special applications

5. Roof applications

EQUITONE [textura] and [pictura] can be considered for applications on a roof. Please bear in mind that the panel is only decorative and there must be a suitably designed water-proof construction under the panels.
Please contact your local EQUITONE Service team for more assistance.

6. Weatherboard / Shiplap Pattern

An alternative to the flat facade is the shiplap appearance which emphasises the horizontal lines. This consists of narrow panels fixed to the facade at an angle not parallel to the wall.
Glue and mechanical secret fixing is not possible with this arrangement.
Please contact your local EQUITONE Service team for more assistance.

7. Brise soleil and shutters

EQUITONE can be used as a Brise Soleil, shutter or architectural feature of a building. To be installed both horizontally and vertically.The Brise Soliel or shutter gives the feature of a continuous façade and can also be perforated if required to give a unique visual aspect to the façade.
Not all materials are suitable for this application, please contact your local technical support for additional information.

8. Curtain Walling

The post-and-beam or stick system is normally assembled on site. The vertical members are fixed to the floor slab and then connected with horizontal transoms. Into this frame will fit the glazing or panels.

9. Internal Use

The use of EQUITONE panels internally is possible, please contact your EQUITONE service team for more assistance.