

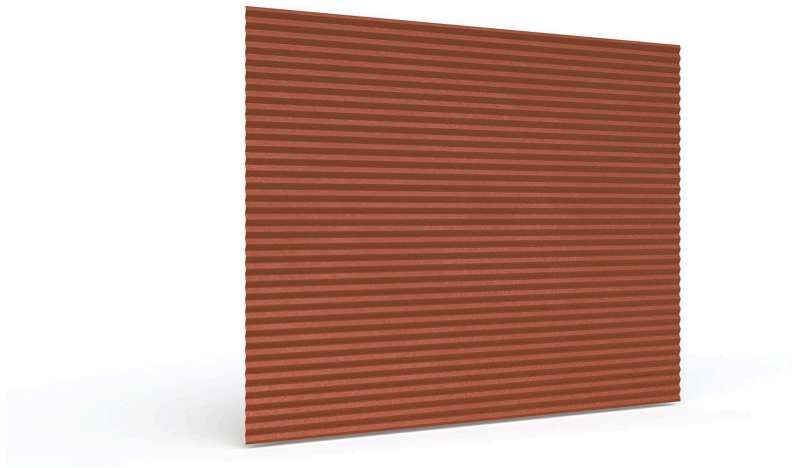
Design Cor-Ten S7

Create a rusty, life-like rhythm with Design Cor-Ten® S7 for ventilated Cor-Ten facade systems.

Applications: facade and ceiling surfaces.

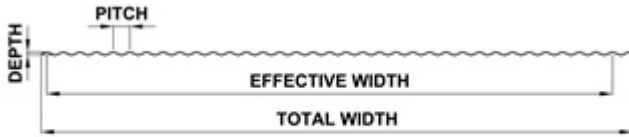
Ruukki® Emotion

Available also with perforation and backlighting.



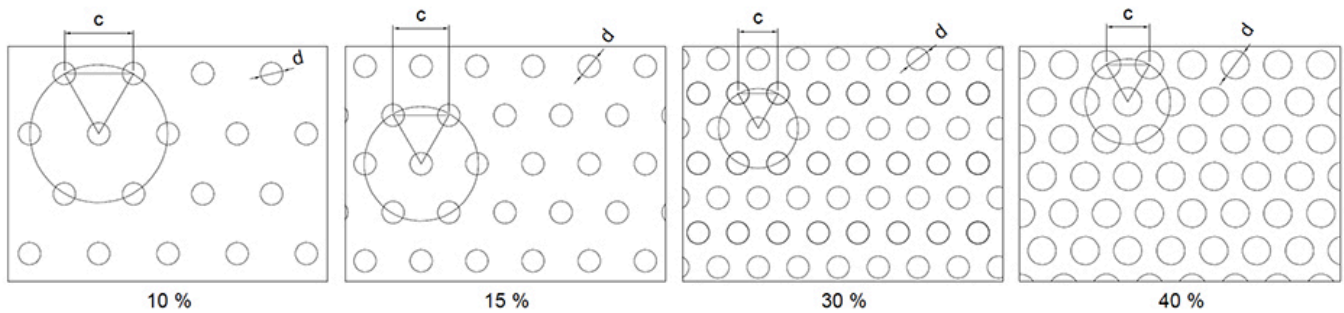
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Properties



Model name	Design Cor-Ten S7
Effective width	1119 mm
Total width	~1169 mm
Depth	6 mm
Pitch	33 mm
Minimum length	200 mm
Maximum length	3550 mm

Perforation layout



10 % perforation, hole size $d = 4$ mm, centres $c = 12$ mm

15 % perforation, hole size $d = 4$ mm, centres $c = 10$ mm

30 % perforation, hole size $d = 4$ mm, centres $c = 7$ mm

40 % perforation, hole size $d = 5$ mm, centres $c = 7.5$ mm

Materials

Material	Material thickness (mm)	Weight (kg/m ²)	Surface treatment	Reaction to fire
Steel Cor-Ten A	1.0	8.77	-	A1

Due to its unique chemical composition, Cor-Ten weather-resistant structural steel sheet has a significantly better ability to resist atmospheric corrosion than similar general structural steels. Weather-resistant steel is used in architectural applications without requiring any separate surface treatment. Use of weather-resistant steel thus eliminates the need for surface treatments during the manufacturing and operational periods, in turn lowering the environmental load and costs throughout the product's life cycle.

The weather resistance of the product is due to its oxide layer, i.e. the patina which forms on the steel surface which is resistant to the action of alloys and has low oxygen permeability. The oxide layer is created when weather-resistant steel is wetted and dried repeatedly. The protective surface layer forms in normal weather conditions within 18...36 months.

The patina layer is initially reddish brown in colour, becoming darker in tone over the course of time. In industrial environments the patina forms more rapidly on the steel and darkens more than in cleaner rural environments. The protective patina layer cannot form, however, if the surface of the steel is continuously damp or dirty.

Cor-Ten A grade steel is used for the manufacture of profiles (S355J0WP-COR-TEN A).

BIM objects

To make both architectural and structural design work easier, with accurate product information in 3D form, we offer a selection of CAD / BIM -objects for Autodesk Revit and ArchiCAD.



Download BIM objects for Revit



Download BIM objects for ArchiCad

Download documents

Declaration of performance



Declaration of Performance 25/PP/PAR - CorTen cladding products

PDF, 1.1 MB

Order form



Ruukki Design Profile order form_2.1.2

XLSM, 0.6 MB

Maintenance instructions



Ruukki powder coated facade claddings - Maintenance instructions

PDF, 0.6 MB



Ruukki colour coated steel - Maintenance instructions

PDF, 0.6 MB

Accessory documents



EN_Cladding_Accessories_02_2020

PDF, 3.6 MB



Profiled sheets and purlins accessories

PDF, 4.8 MB

References



Industrial building – Fortum Oslo Varme

Fortum Oslo Varme is the owner and operator of the district heating network in the City of Oslo, Norway. A new administrative building was completed next to the...



Sushi-Tokyo

Design Cor-Ten was installed vertically on the ventilated facade of the building's lower floor. Steel sheets were fastened with the use of stainless self-drilli...