

DESIGN COR-TEN S7



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

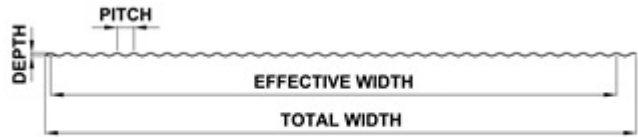
Applications: facade and ceiling surfaces.

Ruukki® emotion

Available also with perforation and backlighting.

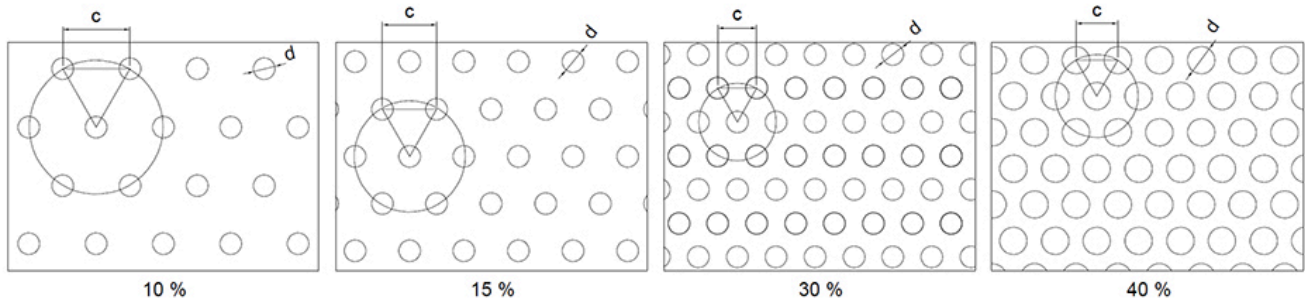
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PROPERTIES



Model name	Design Cor-Ten S7
Effective width	1119 mm
Total width	~1169 mm
Depth	6 mm
Pitch	33 mm
Maximum length	3550 mm
Minimum length	200 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
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Steel Cor-Ten A	1.0	8.77	-	A1
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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).

ACCESSORIES

Facade cladding system, completed with flashings, fasteners and support studs, provides a fully finished facade, as well as quick and easy installation.

DESIGN TOOLS

To make both architectural and structural design work easier, with accurate product information in 3D form, we offer a selection of CAD / BIM -objects and software tools, to be downloaded from the Software Toolbox portal.

READY MODELLED BIM OBJECTS

[Download objects for ArchiCAD](#)

[Download objects for Revit](#)

DETAIL DRAWINGS (.DWG)



06 MAY, 2016

[Ruukki_design_profiles_detail_drawings_DWG](#)

ZIP, 1.64 MB

DETAIL DRAWINGS (.PDF)



06 MAY, 2016



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ZIP, 1.32 MB

INSTRUCTIONS

ORDER FORMS



06 MAY, 2016
Design Cor-Ten S7 Order form
ZIP, 325.11 KB

TOLERANCES



15 JUN, 2016
Design profile product tolerances 24.11.2015
PDF, 48.43 KB

CERTIFICATES & APPROVALS

DECLARATION OF PERFORMANCE

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 existing heating plant in 2018. Ruukki supplied...

[View case](#)



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-drilling screws. Eaves and corner flashings were...

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