

Cfb

Temperate Oceanic Climate

Location Examples:

- Paris, France
- Auckland, New Zealand
- Vancouver, Canada
- Valdivia, Chile

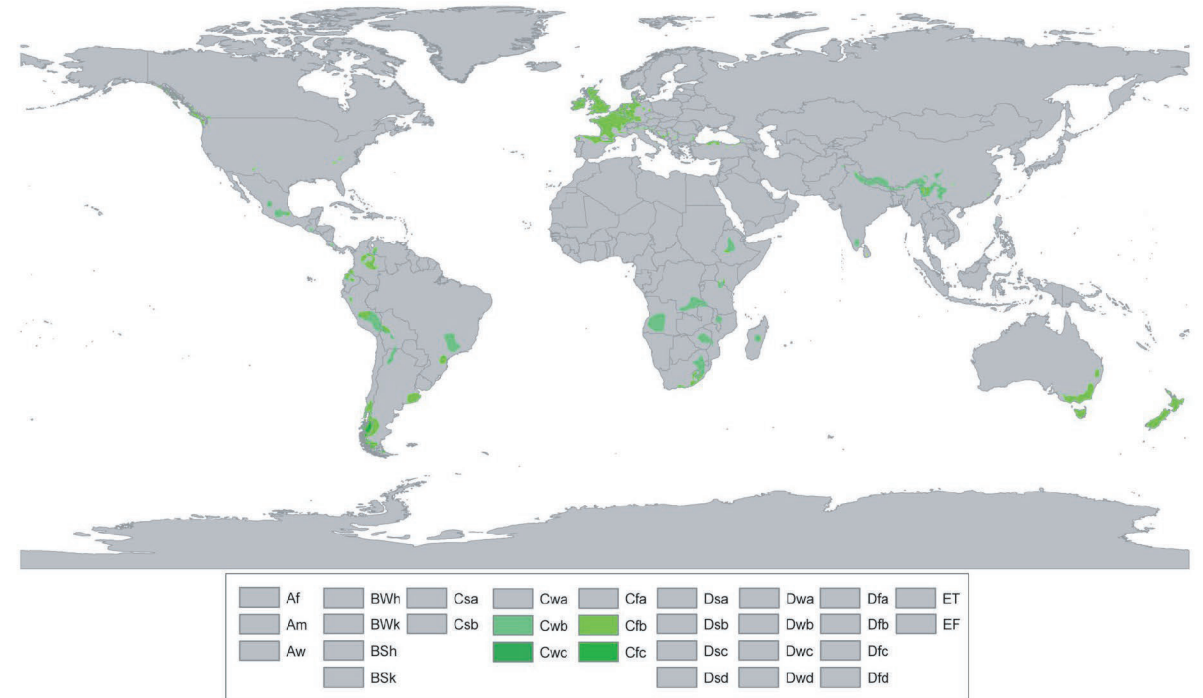
study
By Patrick Murray

The Cfb climate zone is relatively mild as far as temperatures go. The typical spread is from a minimum of 26.6°F at its coldest to a maximum of 71.6°F. Precipitation is spread throughout the year, meaning the this climate zone does not feature any particular dry season though there is a present fluctuation in seasons throughout the year. Due to its mild nature, areas classified within the Cfb climate have freedom in materials that suit the climate and buildings are not as limited in materiality.

Sources:

<http://www.aucklanddesignmanual.co.nz/streets-and-parks/park-design/landscape-and-amenity/guidance/connect/connect-the-environment>

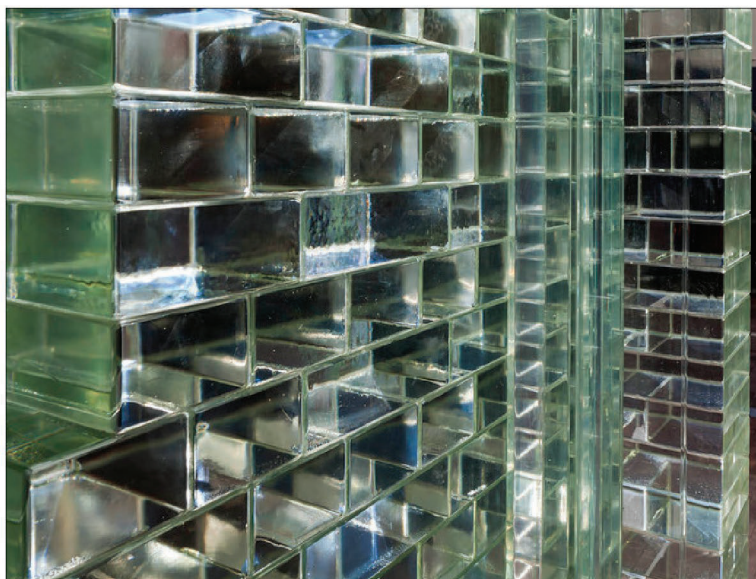
<https://www.britannica.com/science/Koppen-climate-classification>



Crystal Houses

case study
By Yuhui Xiong

Location: Amsterdam, The Netherlands



Architect: MVRDV

Owner: University of Stuttgart

Year of completion: 2016

Climate: Marine West Coast Climate (Cfb)

Material of interest: Glass brick

Application: Exterior

Properties of material: It enables global brands to combine the overwhelming desire of transparency with a couleur locale and modernity with heritage

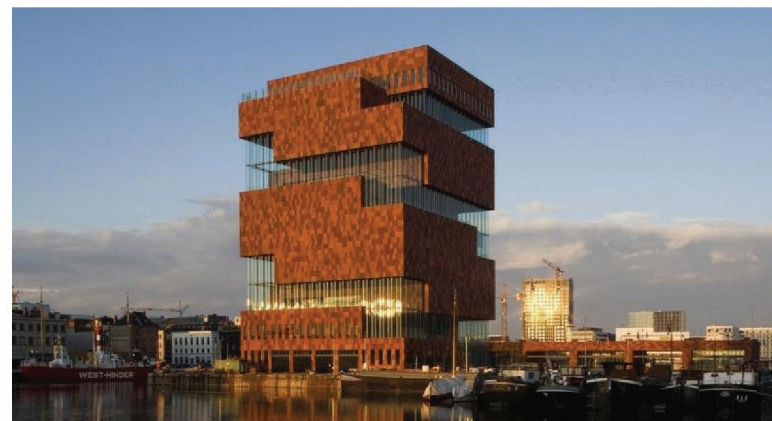
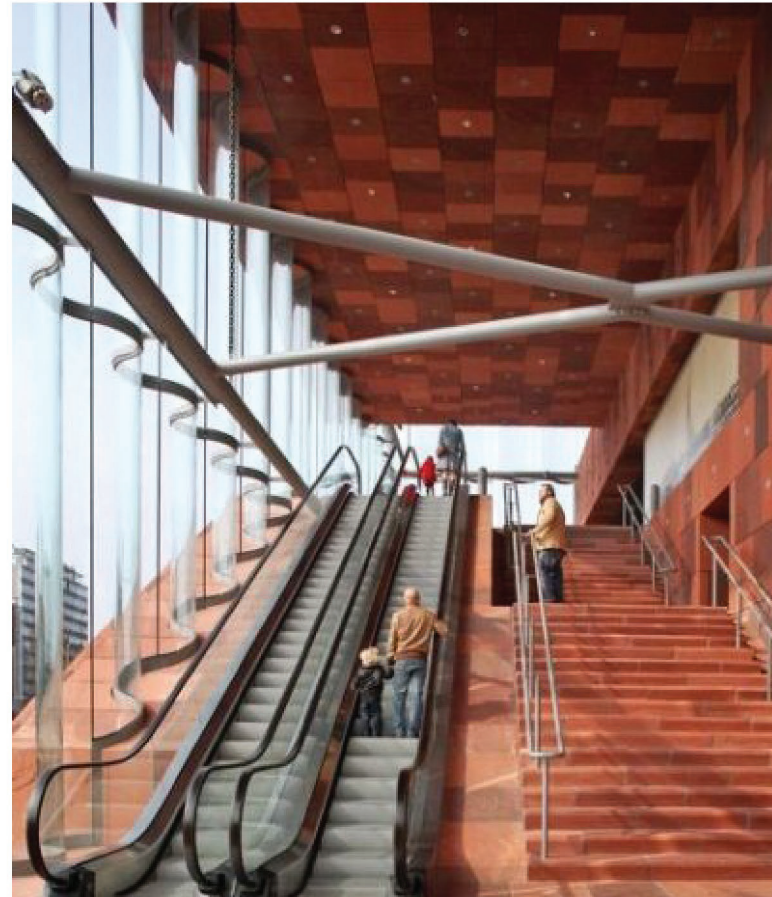
Sources:

<https://www.archdaily.com/785923/crystal-houses-mvrdv>

MAS Museum aan de Stroom

case study
By Sheng Yan

Location: Antwerp, Belgium



Architect: Neutelings Riedijk Architects

Owner: Museum aan de Stroom

Year of completion: 2011

Climate: Temperate Oceanic Climate (Koppen Climate Classification: Cfb)

Material of interest: Self-supporting corrugated glass

Application: Exterior

Properties of material: Corrugated glass panels at 5.5 meters high and 1.8 meters wide are used to enclose the main spiraling circulation space. The corrugation stabilizes the glass panels and make them self-supporting, which required minimal bracing to the main structure of the building.

Sources:

Architect Website: <https://www.neutelings-riedijk.com/>

Web Magazine: <https://www.domusweb.it/en/news/2010/05/20/mas-museum-by-neutelings-riedijk-architects.html>

Photographer:

Dirk Verwoerd, Neutelings Riedijk Architects

Area Renegeration and Buildings Reuse

case study
By Sheng Yan

Location: Arzo, Switzerland



Architect: Enrico Sassi Architetto

Owner: Patriziato di Arzo

Year of completion: 2017

Climate: Temperate Oceanic Climate (Koppen Climate Classification: Cfb)

Material of interest: Arzo Marble

Application: Exterior

Properties of material: As a part of promotion campaign of the quarry operator, stone masonry units were cut and made on site using marbles found on site from previous quarrying operations to construct seating benches and walls for resting pavilions.

Sources:

Architect Website: <https://enricosassi.ch/>

Web Magazine: <https://divisare.com/projects/365554-enrico-sassi-architetto-luca-ferrario-gian-paolo-minelli-marcelo-villada-ortiz-alberto-canepa-filippo-simonetti-area-regeneration-and-buildings-reuse>
<https://www.subtilitas.site/post/168305573874/enrico-sassi-redevelopment-of-a-stone-and-marble>

Photographer:

Luca Ferrario , Gian Paolo Minelli, Marcelo Villada Ortiz, Alberto Canepa, Filippo Simonetti

House in la Cerdanya

case study
By Patrick Murray

Location: Cerdanya, Spain



Architect: Dom Arquitectura

Owner: N/A

Year of completion: 2008

Climate: Cfb Temperate Oceanic

Material of interest: Stone

Application: Exterior

Properties of material: stone meets requirements of Cerdanya historic rehabilitation project as a locally sourced material

Sources:

Architect Website: <http://www.dom-arquitectura.com/en/projects/arquitectura-en/1277/>

Karlovac Freshwater Aquarium

case study
By Patrick Murray

Location: Karlovac, Croatia



Architect: 3LHD

Owner: N/A

Year of completion: 2016

Climate: Cfb Marine West Coast

Material of interest: Concrete

Application: Facade

Properties of material: pigmented to mimic soil;
solid structure; customizable

Sources:

<https://www.archdaily.com/799671/karlovac-freshwater-aquarium-and-river-museum-3lhd>

Urban Cabin

case study
By Patrick Murray

Location: Amsterdam, Netherlands



Architect: DUS Architects

Owner: N/A

Year of completion: 2016

Climate: Cfb, Temperate Oceanic

Material of interest: Plastic

Application: Envelope and form

Properties of Material: Entirely 3D printed, ideal for disaster response, material can be recycled into new 3D prints at the end of the building's needed lifespan

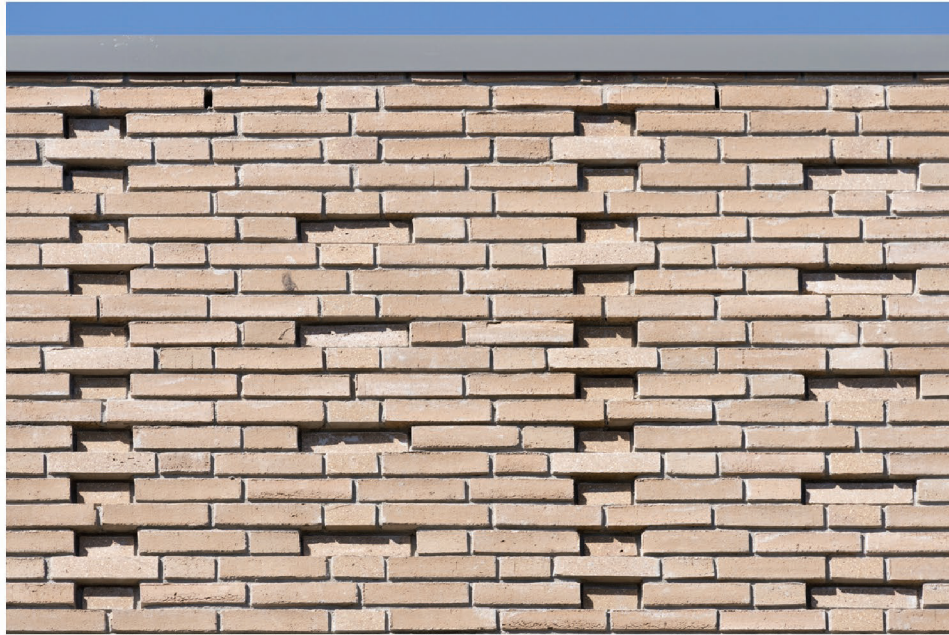
Sources:

<https://www.archdaily.com/794855/urban-cabin-dus-architects>

The Governor

case study
By Patrick Murray

Location: Rotterdam, Netherlands



Architect: Architectuur Maken

Owner: N/A

Year of completion: 2016

Climate: Cfb Temperate Oceanic

Material of interest: Recycled Brick

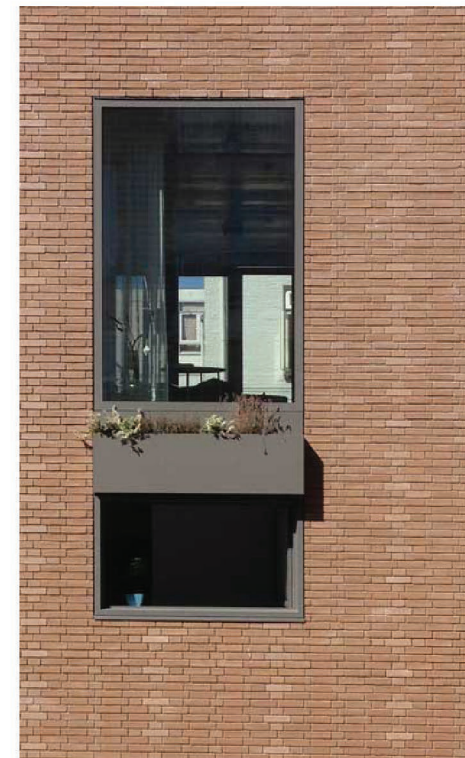
Application: Facade

Properties of material: Brick complements architecture of the area; highly durable, not brittle; made from recycled waste and rubble

Sources:

<https://www.cbsnews.com/media/8-homes-made-from-recycled-materials/2/>

<http://architectuurmaken.nl/english/>



Tape Paris

case study
By Tian Lan

Location: Paris, France



Architect: Numen / For Use Design Collective

Owner: N/A

Year of completion: 2011

Climate: Marine West Coast Climate

Material of interest: Tape

Application: Structure

Properties of material: Tape is a kind of material that is ephemeral and non-architectural, but designers turn it into one that has an architectural capacity. The stretched biomorphic skin of Tape Paris is marking the entry point to the whole experience, being a literal incarnation of an inner-directed, regressive environment - the sense of descent into the primordial always lingering around its openings. It took twelve people ten days to wrap-up the concrete pillars in the great entrance hall of Palais de Tokyo into a maze of accessible translucent passageways, which coil 50 meters through the gallery space and reach the total height of 6 meters.

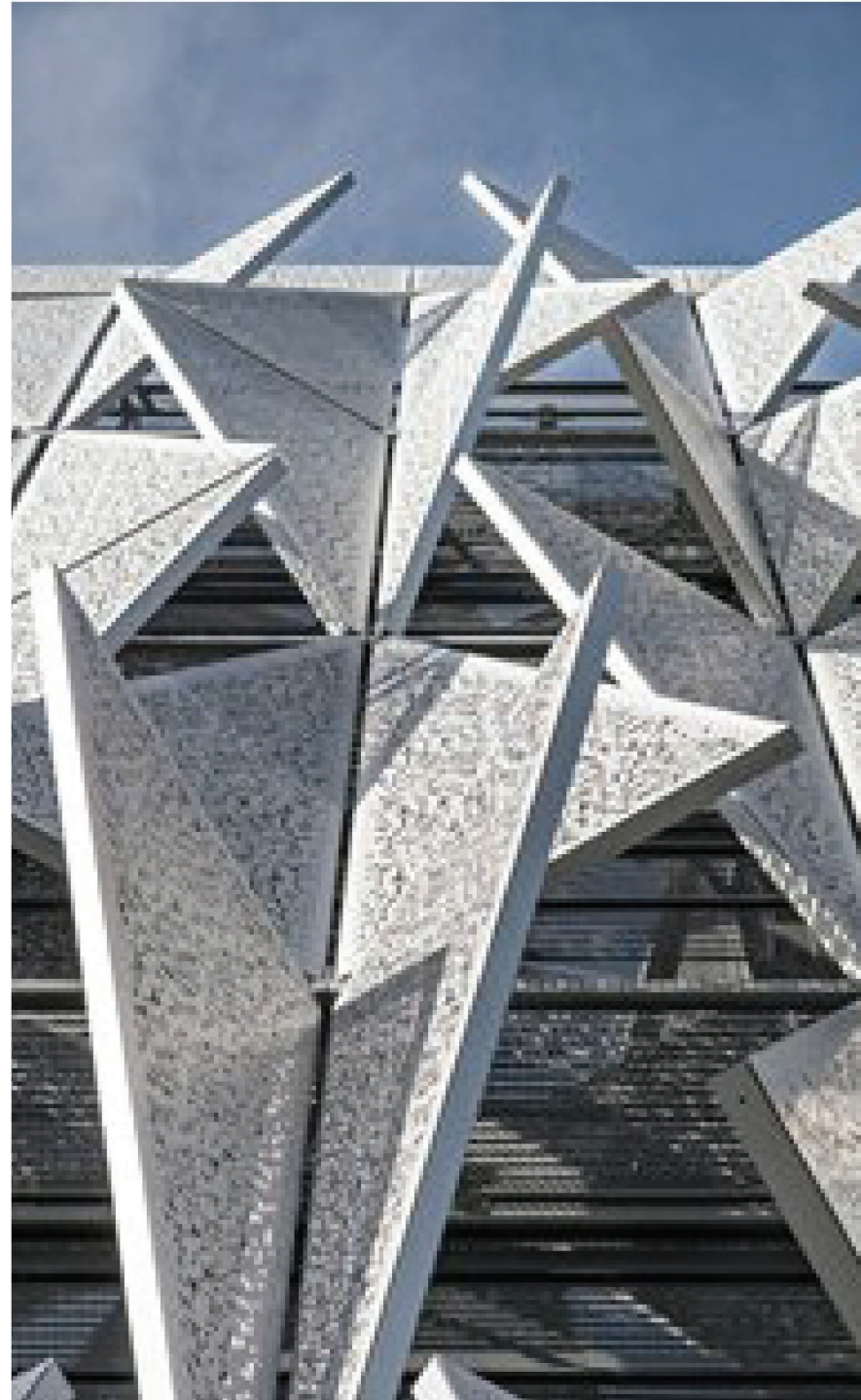
Sources:

1. <http://numen.eu/>
2. <https://www.dezeen.com/2014/10/31/numen-for-use-sticky-tape-paris-installation-palais-de-tokyo-cling-film/>

University of Southern Denmark - Campus Kolding

case study
By Larissa Sattler

Location: Kolding, Denmark



Architect: Henning Larsen Architects

Owner: University of Southern Denmark, The Danish Building & Property Agency

Year of completion: 2014

Climate: Oceanic Climate

Material of interest: Perforated Steel Facade
Application: Exterior

Properties of material: The dynamic solar shading of the 1,600 triangular perforated steel panels allows for the building envelope to adapt to changing conditions in the environment through passive solar shading. In addition to sensors the shutters can be manually operated depending on the needs for natural light or desire for shading

Sources:

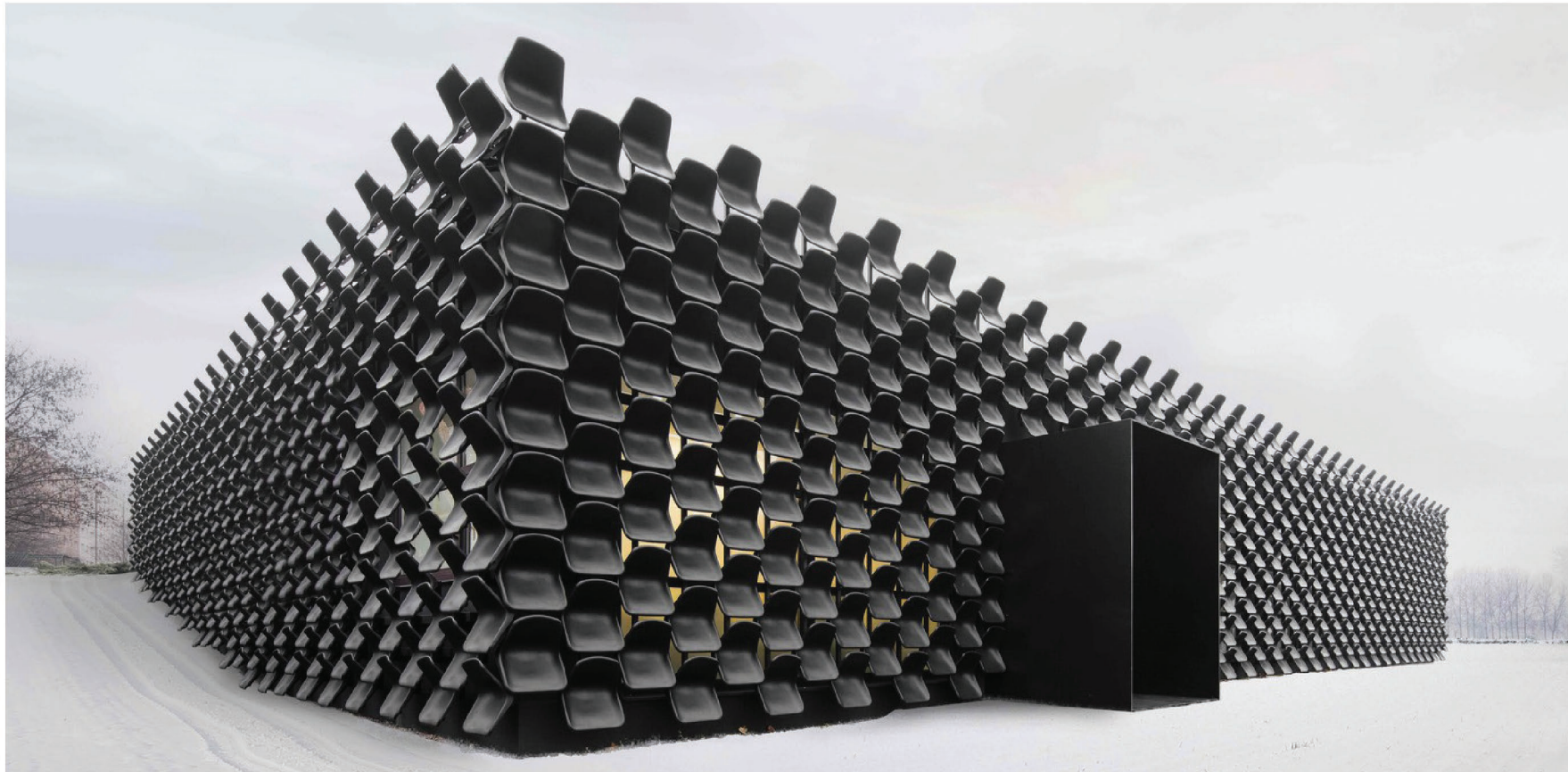
Architect's Website: <https://www.cfmoller.com/>

<https://www.archdaily.com/438840/dronning-ingrids-hospital-c-f-moller-architects>

Gallery of Furniture

case study
By Shijing Zhu

Location: Brno-Vinohrady, Czech Republic



Architect: CHYBIK+KRISTOF

Owner: N/A

Year of completion: 2016

Climate: Temperate oceanic climate

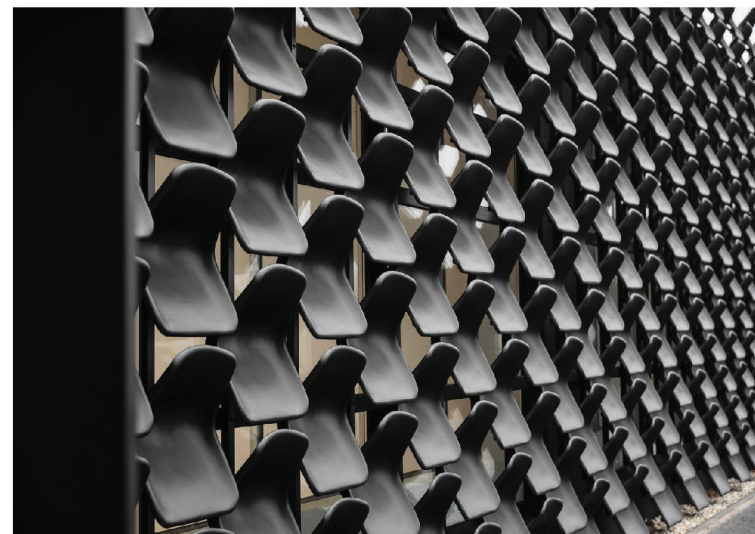
Material of interest: Black plastic (reused)

Application: Exterior

Properties of material: The single-storey building of a poor aesthetic quality turned into a building with a new, easily remembered façade composed of more than 900 black plastic seats. The façade is conceived abstractly, functioning also as a banner advert for the firm itself. After finishing a simple refurbishment of its interior, a new flexible showroom was created presenting the individual segments of the firm's production in specific, thematically arranged settings.

Sources:

<https://www.archdaily.com/869729/gallery-of-furniture-chybik-plus-kristof>



Maggie's Cancer Centre Manchester

case study
By Patrick Murray

Location: Manchester, UK



Architect: Foster+Partners

Owner: N/A

Year of completion: 2016

Climate: Cfb Oceanic Climate

Material of interest: Wood

Application: Structure

Properties of material: versatility of the material allows the wooden structure to carry aesthetic qualities through complex geometries

Sources:

<https://www.archdaily.com/786370/maggies-cancer-centre-manchester-foster-plus-partners>

