CITY HALL VENLO

MARY ABU EL FARAG | CSR #3 | 05.09.2023

ADVANTAGES

1

HIGHEST STRENGTH-TO WEIGHT RATIO OF ANY METAL



WEIGHT = 1/3 OF STEEL



ELECTRICITY OF ALUMINUM > COPPER



100% RECYCLABLE

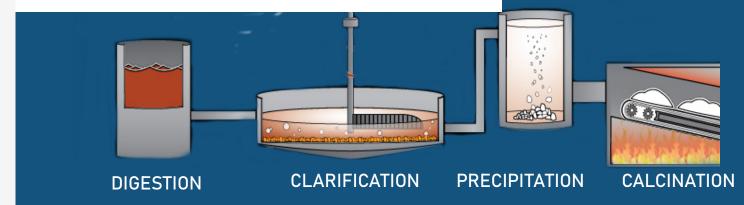
DISADVANTAGES

\$\$\$ RARE AND EXPENSIVE VS STEEL



DISTINCTIVE PROCESS OF WELDING

REFINING ALUMINIUM - BAYER PROCESS



ALUMINIUM SOURCING

ALCOA MATER MANAGEMENT



-WORLDWIDE RENOWNED FOR THEIR ALUMINIUM, ALUMINA AND BAUXITE PRODUCTION

VELNO CITY HALL

GLOBAL PRODUCTION OF ALUMINIUM



RAW MATERIALS















ENERGY

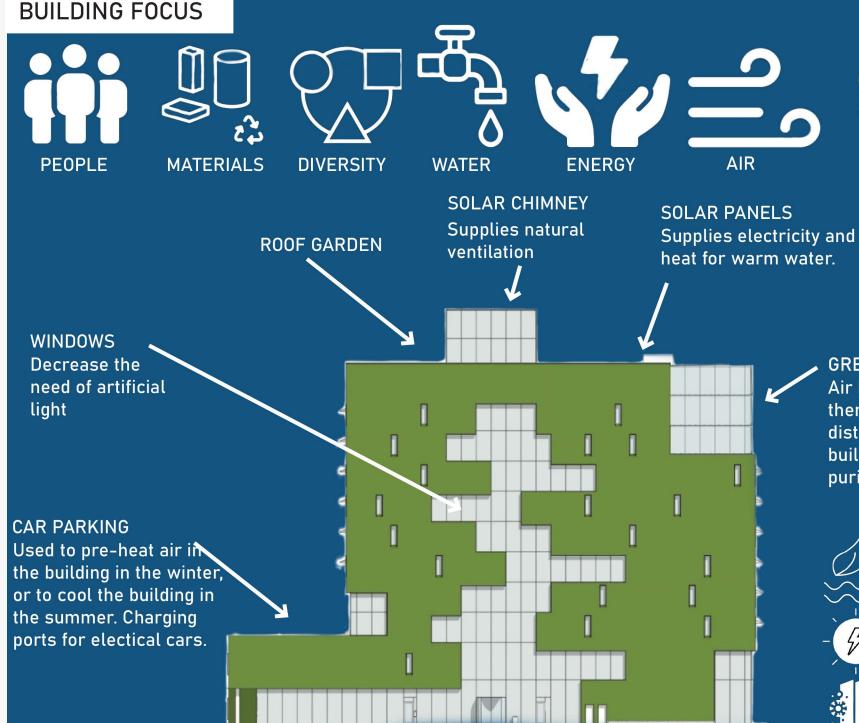


0.170Z BATH

2 LBS ALUMINIUM

CRADLE TO CRADLE PRINCIPALS

CITY HALL VENLO IS NOT ONLY SUSTAINABLE, BUT SUPPLIES POSITIVE INFLUENCE TO HUMAINS, ENVIROMENT AND ECONOMY.



MATERIALS C2C



WASTE MANAGMENT









INTERIOR

C2C principle was applied to the interior





of plastic bottles.

Floor coverings made Office chairs are fully recyclable. (C2C ceritified)

CUSTOMIZED FURNITURE



Use of rubberwood. (C2C ceritified)

RECYCLING



South facade is made out of aluminium. Aluminum is fully reuasable without loss of quatlity.



North facade is made with mainly of green planting. the pots designed for green facade. (C2C ceritified)



GREEN HOUSE

purifies the air.

Air heats up by sun,

then the greenhouse distributes heat to the building. Greenhouse

EXPLOIT WATER

MONEY

Rainwater is caught to source hydration to the green facade.



PRODUCE ENERGY

Sunlight is transformed into energy and distrubuted to fabricate light and heat.



Green facade is used to deliver clean air.

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