

Reference

PLEXIGLAS®

PLEXIGLAS® Transforms Room into Unique Wine Cellar



Market segment

Furniture, Exhibition, Shopfitting

Location

California homeowner

Product

PLEXIGLAS® GS, clear

Selection criteria

The product offers excellent optical characteristics, thickness tolerances, light stability, low internal stress levels for consistent performance and many times the breakage resistance of standard window pane glass. It is a material with the structural integrity to support the weight of thousands of full wine bottles, while still being transparent.

Fabricator

Architectural Plastics Inc., Petaluma, California
www.archplastics.com



Description of the application

The room was meant to resemble a bank vault in several ways: the walls, doors and countertops are all stainless steel. The wine rack had to fill a room 2,43m x 5,18m x 3,05m high and be able to house approx. 2,800 bottles. We ended up using nearly 4.000 kg of 38 mm thick acrylic for the wine vault.

Contained within the stainless-steel "vault," wine racks rise above a countertop off the floor and run along all four walls. Below the countertop are various bins and drawers to hold wine cases or various sizes of wine bottles, all of which are also designed in clear acrylic. The drawers have no metal hardware, and move in and out on plastic slides—the only non-clear plastic in the room. Vertical shelving racks begin above the countertop and run to the ceiling. Overhead, three bridges run left to right and hang from the ceiling. The larger bridges, when full of wine bottles, weigh close to 600 kg. They are supported by stainless steel brackets at the ceiling and the ends of the bridges rest on wine racks at each wall.

Evonik Performance Materials GmbH

Acrylic Polymers

Kirschenallee, 64293 Darmstadt, Germany

info@plexiglas.net www.plexiglas.net www.evonik.com