Double glass components are solidified and stacked in long blocks

Insulating Glass Units (IGUs), made of multiple sealed glass panes with gas-filled cavities, are key to thermal and acoustic building insulation. As modern designs demand high transparency ...

Discover double glazed IGU structure, benefits, and performance: superior thermal insulation, energy savings, and long lifespan for homes and buildings.

In this chapter56 a novel, reversible all-glass system consisting of dry-assembly, interlocking cast glass components is introduced that can tackle the irreversibility, strict tolerances and meticulous ...

The results of the numerical model indicate that lower bricks are more susceptible to bending, whereas for higher brick variants the shear lock failure is more critical. To further validate ...

This constraint limits the size of a single building component, and motivates our decision to design and produce masonry units that can aggregate into larger structures. Cast and hollow, ...

Studies involving an experimental investigation of interlayer materials for cast glass blocks include (i) a stacked glass block column (Akerboom, 2016), (ii) a glass block masonry bridge (Aurik, 2017) and ...

Combining transparency with a high compressive strength, glass enables us to make diaphanous load-bearing compressive members, from beams and columns to free-standing facades ...

To further validate the concept, two specimens of stacked glass columns comprising osteomorphic blocks and different interlayers are tested in compression until failure.

A novel system out of dry-stacked interlocking cast glass components has been introduced by (Oikonomopoulou et al. 2018b) that tackles the drawbacks of both previous systems: It avoids the ...

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