Rdconnexion SILICA PLASTIC BLOCK.





The 'Silica-plastic block' or SPB is our sincere take on the enormous foundry dust emission & pollution in our Country. This was made possible by the collaboration of our firm's research wing, R+D Labs & Rhino Machines.

When it comes to manufacturing, 80% waste Silica dust is mixed with 20% plastic waste which is used as an additive to form a loam of the mixture of Silica dust and plastic. Then these are moulded into bricks, blocks & pavers.

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the 'Silica-Plastic Block' project started with a clear mandate of producing zero waste from the sand reclamation plant in rhino machines foundry plant. in the initial stages, experiments were conducted by using foundry dust in cementbonded fly ash bricks (7-10% waste recycled) and clay bricks (15% waste recycled). this experimentation also required the use of natural supplies such as cement, fertile soil and water. the amount of natural resources consumed in the process was not justified by the waste it was able to recycle. these trials led to more research by the inhouse r&d team, resulting in a possibility of bonding the sand/foundry dust with plastic. by using plastic as a bonding agent, the need for water during mixing and thereafter curing is completely eliminated. the blocks can be directly used after cooling down from molding process.

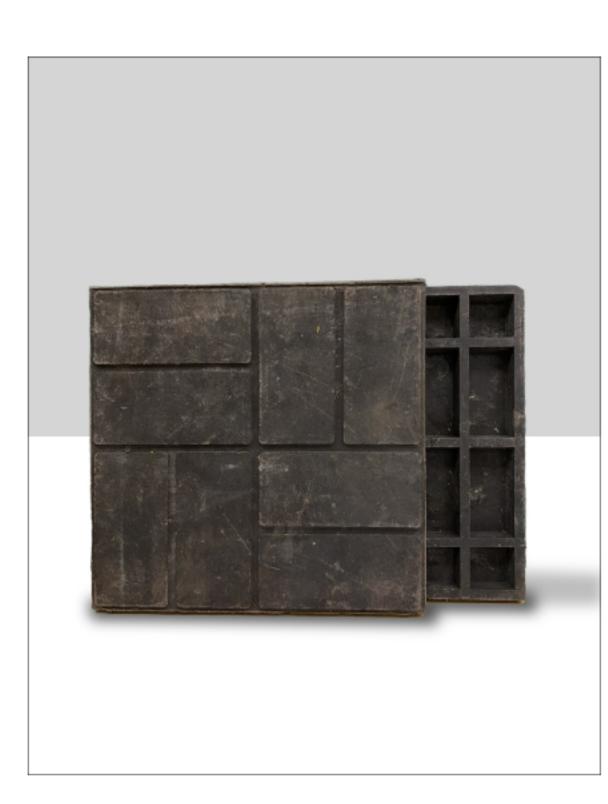


Product









The Basic Brick

The Lego Brick

Zig-Zag Paver

Square Paver

The Basic Brick



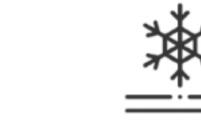








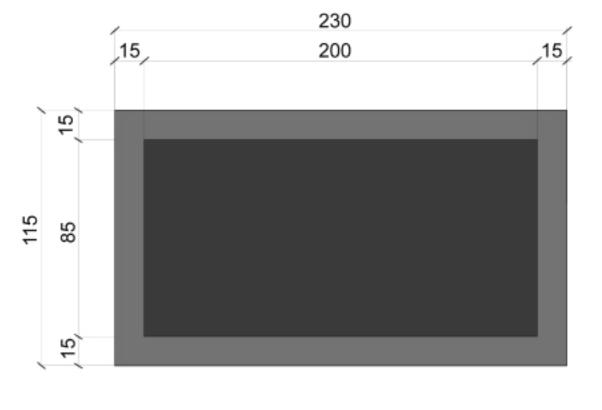
Load Bearing



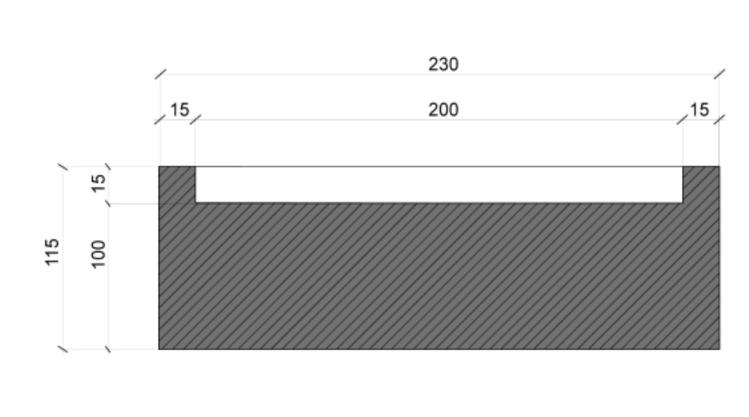
Frost Resistance



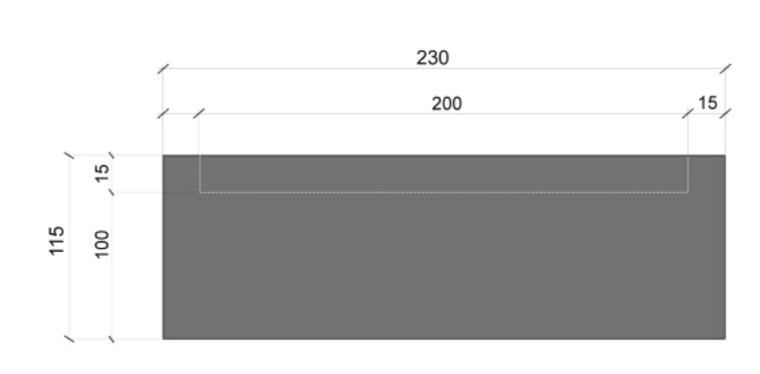
Abrasion Resistance



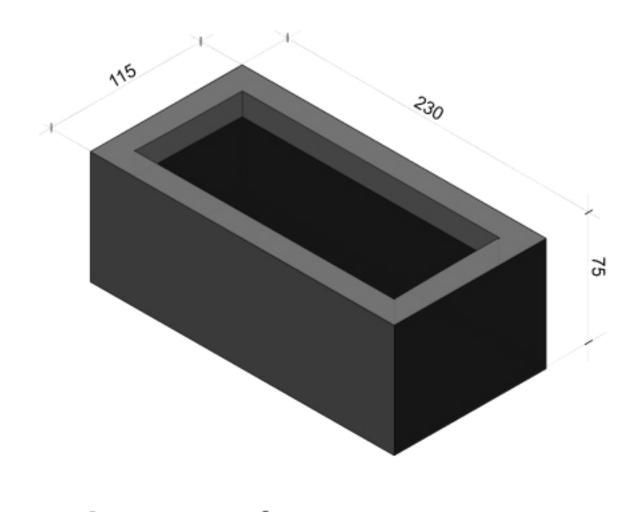
Plan



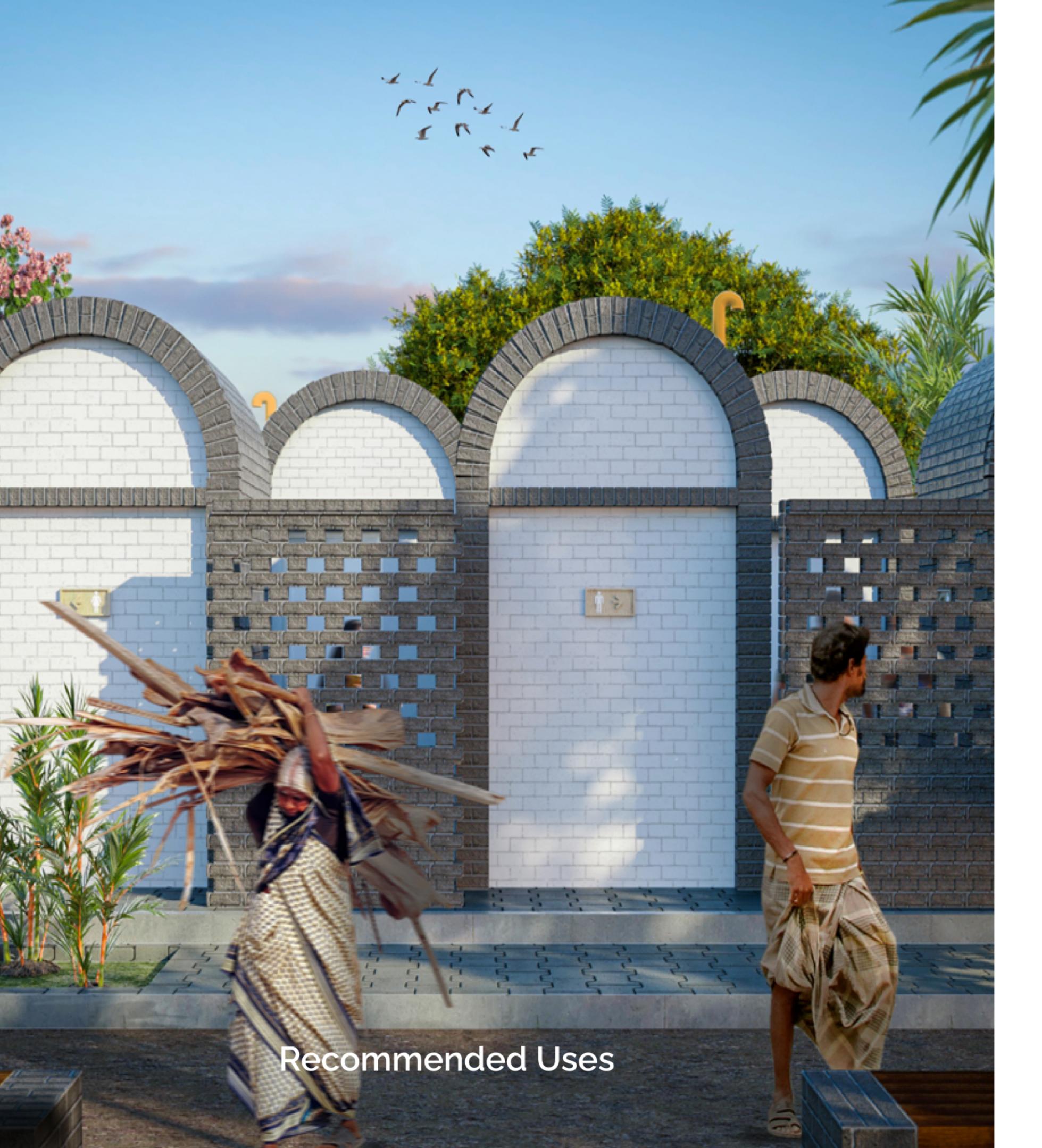
Section



Elevation



Isometric



The Basic Brick









Real Images

The Lego Brick











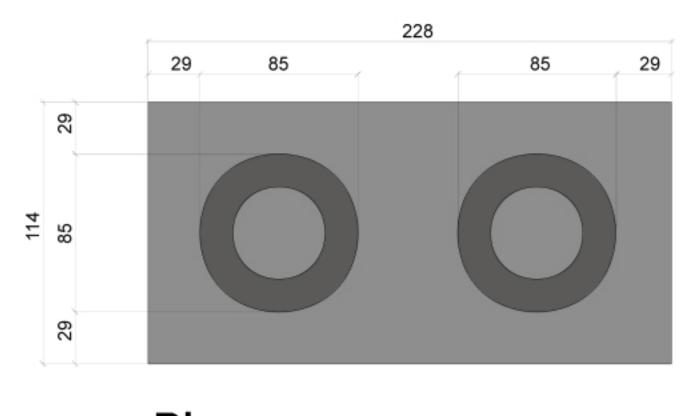
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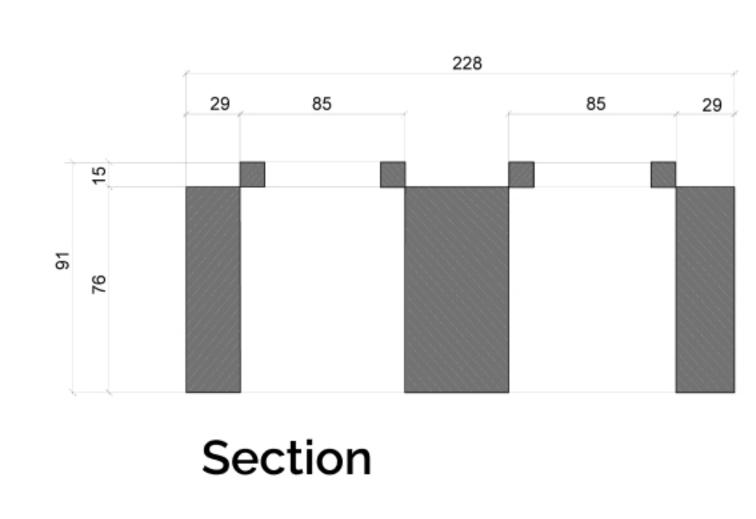
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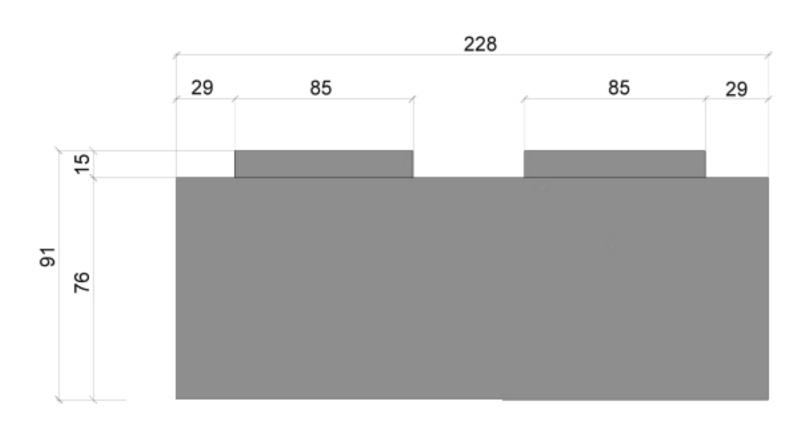


Abrasion Resistance

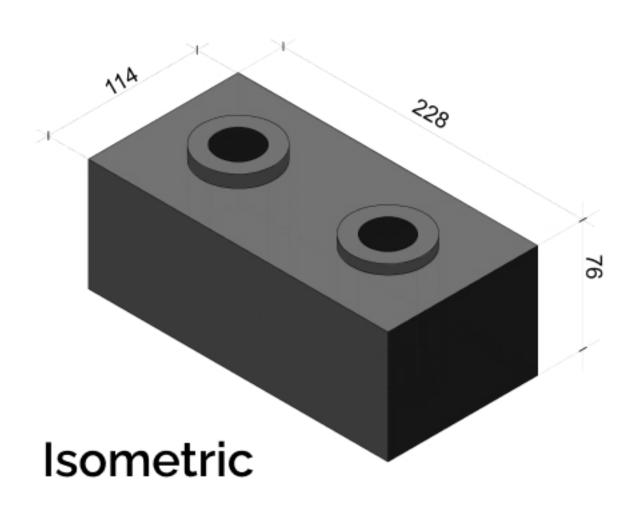


Plan





Elevation





The Lego Brick





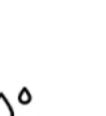


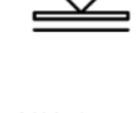


Real Images

The Zig Zag Paver







Water Resistant



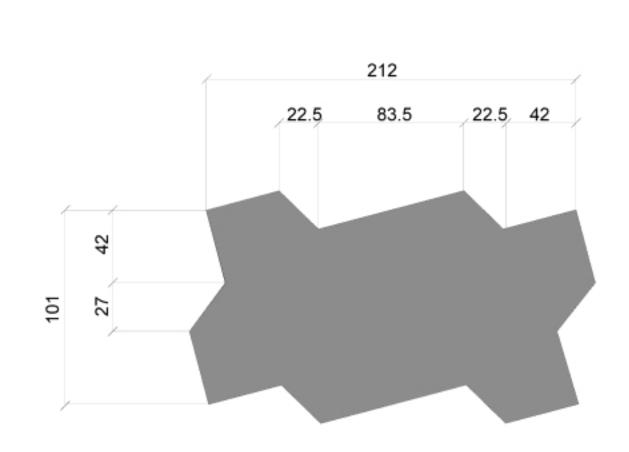
Load Bearing



Frost Resistance

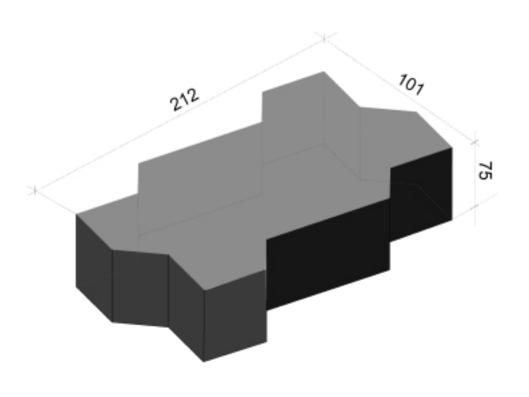


Abrasion Resistance

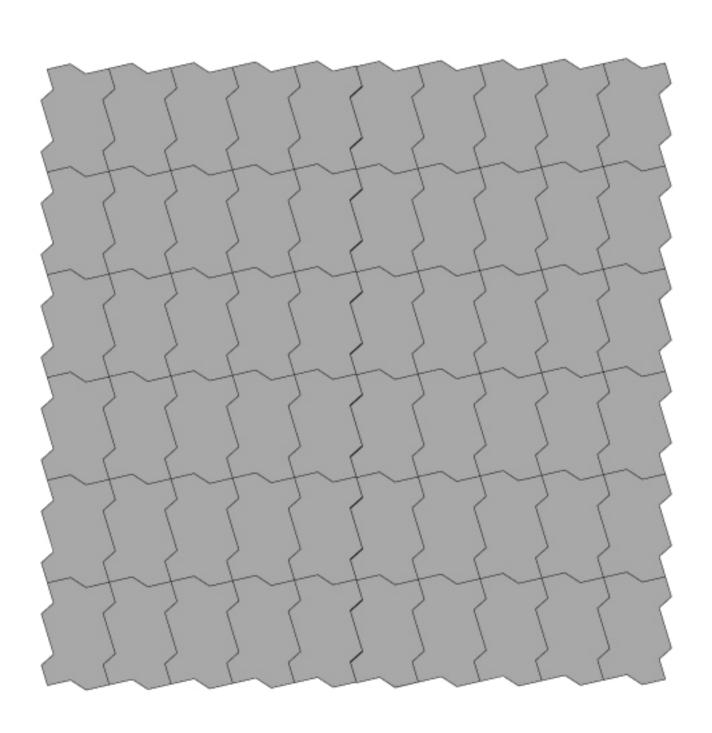


Plan

this quick-to-install zigzag paver is a solid, durable, and strong product designed to withstand heavy weights. this shape prevents any type of cracking on the surface.



Isometric



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The ZigZag Paver









Real Images

The Square Paver

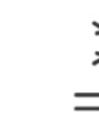








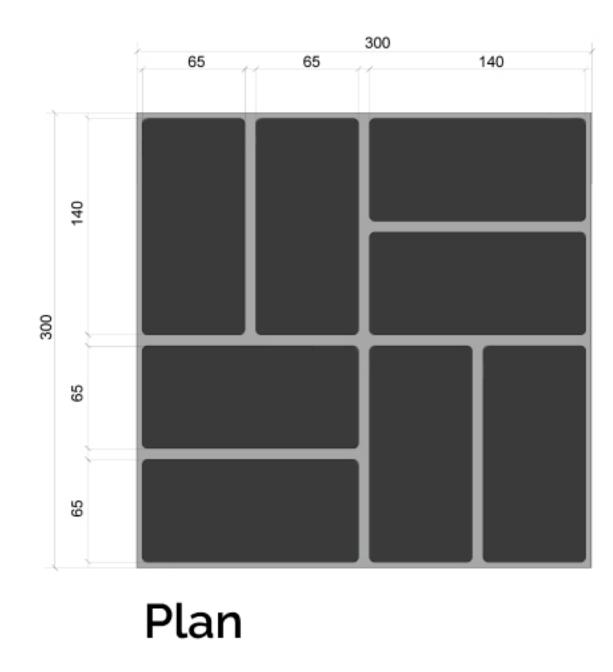
Load Bearing

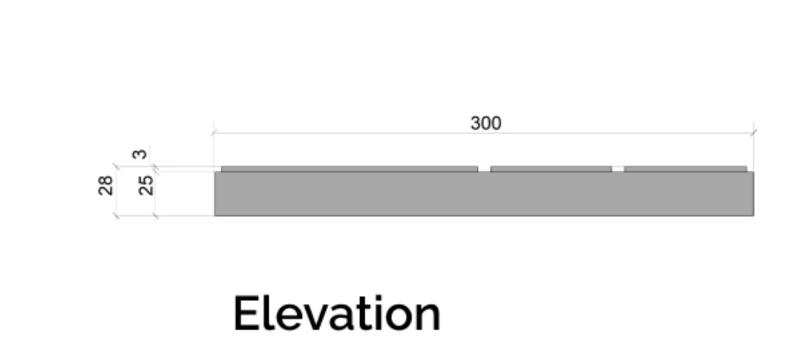


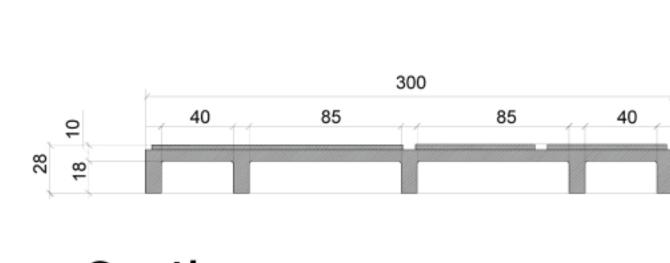
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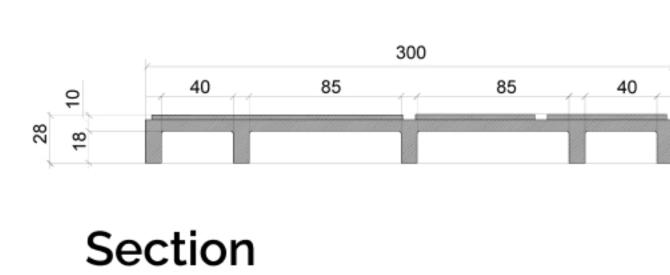


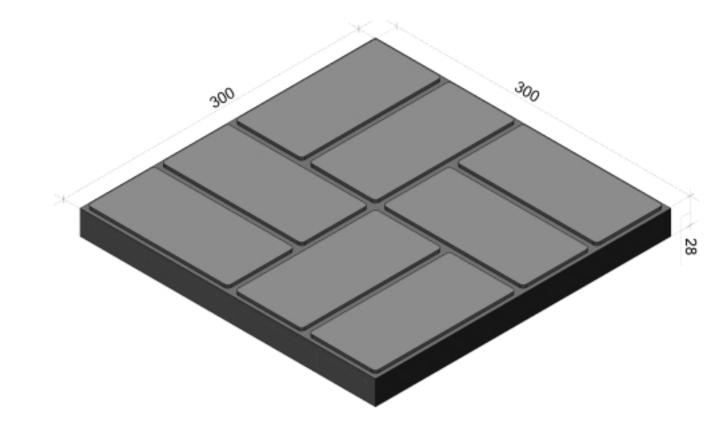
Abrasion Resistance







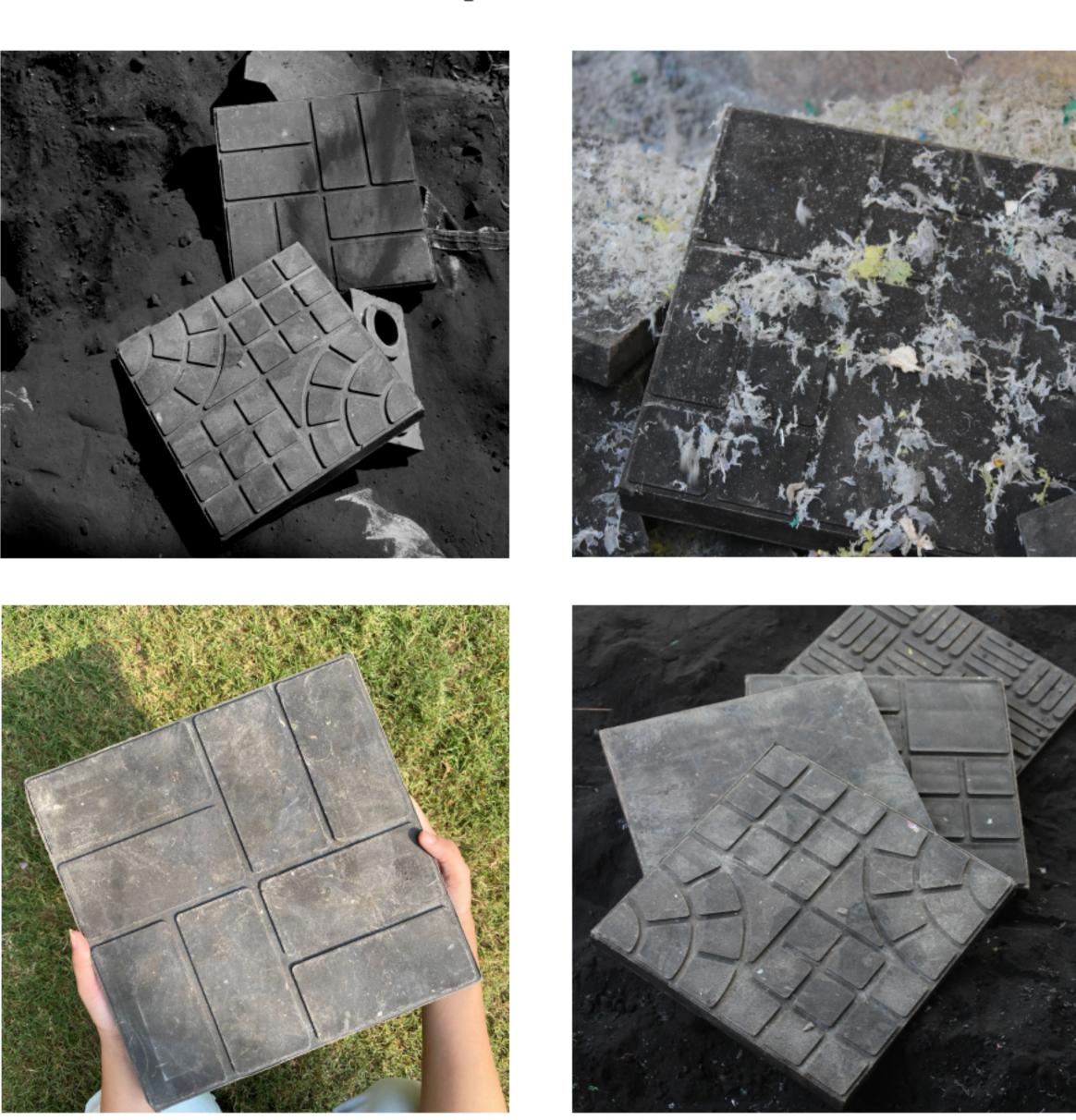




Isometric



The Square Paver



Real Images