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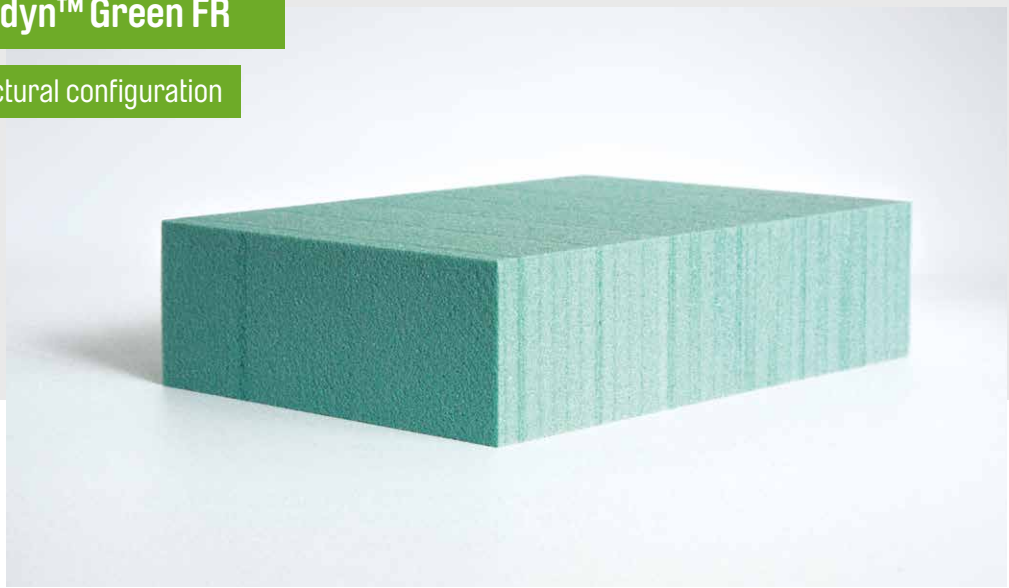
Thermically Optimized Construction Materials

Information Sheet

Kerdyn™ Green FR

Structural configuration

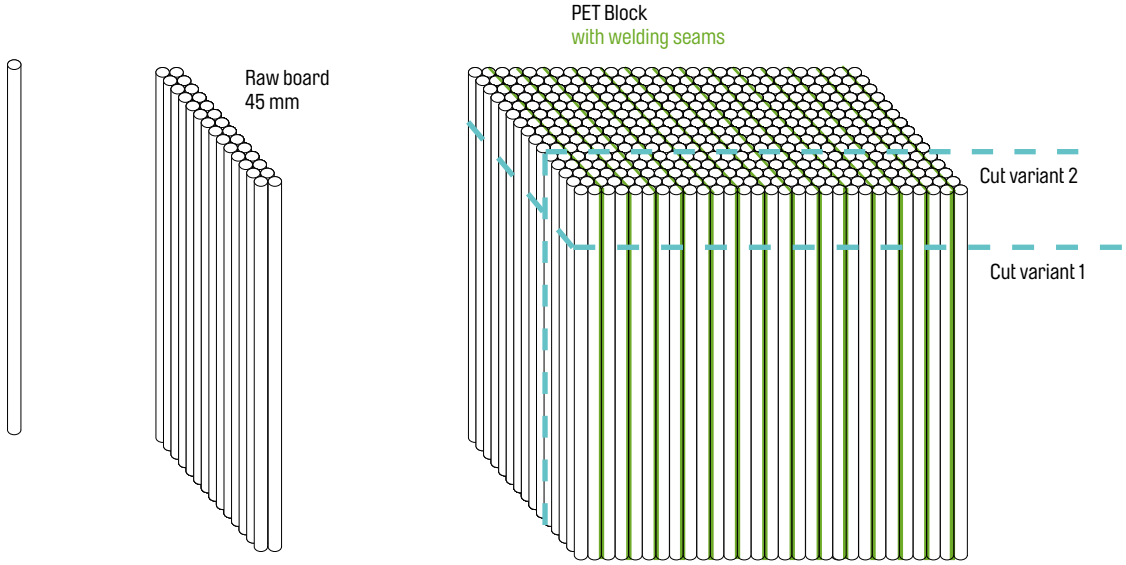


Extensive application potential through different material structures

Kerdyn™ Green FR - the PET recyclate board and what the structure reveals about its properties.

Depending on the purpose of our construction materials, the material, Kerdyn™ Green FR, is used in various ways. Why?
Let's take a closer look at board surface: the various hues and structures reflect a complex structural configuration:
To produce Kerdyn™ Green FR, PET granulate from the recycling process (beverage bottles) is molten, processed, and extruded in many small "strings". After the extrusion tool, the strings unite into a raw board.
Thereafter, the raw boards undergo heating and are then welded into a block layer by layer. The required boards are cut from this block.

This sophisticated process is selected to transfer the high mechanical properties parallel to the direction of extrusion into the board surface (-> comparable to the mechanical properties of a rod).



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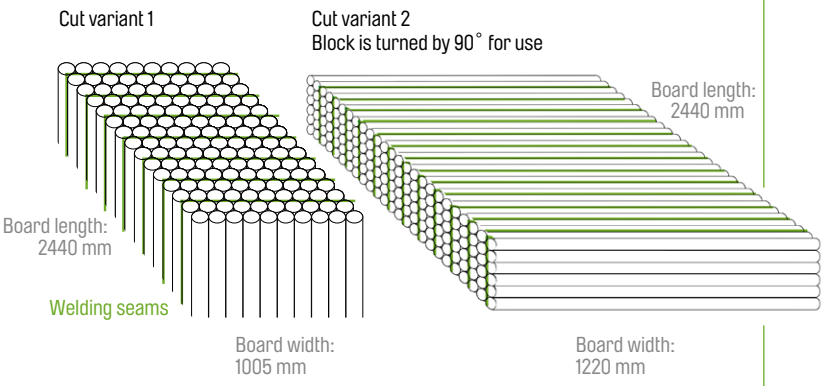
We can differentiate between **two important properties in the application** of the material:

HIGH WEIGHTBEARING CAPACITY

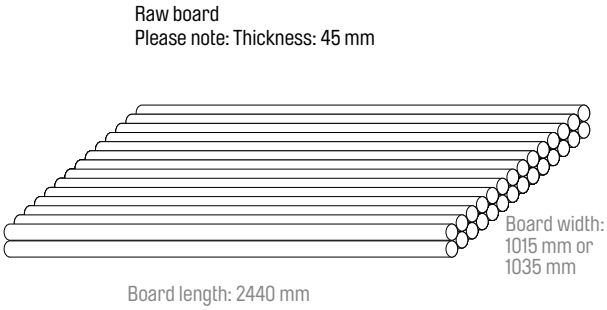
Extruded strings are vertical



> Honeycomb structure visible on surface
> High weightbearing capacity from above
> Surface is **NOT WATERTIGHT** (capillary action)

WATERTIGHTNESS

Extruded strings are horizontal.
There are no welding seams in raw boards.



> No honeycomb structure visible on surface
> Less weightbearing capacity from above - in comparison to the left
> Surface is **WATERTIGHT**

Examples of various applications:

Window base junction profile basistherm
High weightbearing capacity from above
(see cut variant 1 above)

Substructure insulating profile UDPtherm
High weightbearing capacity from above and great heights
(see cut variant 2 above)

Windowsill insulating wedge and sealing wedge FDKtherm
Watertightness through use of a raw board
(see drawing above)

Contact us for a detailed consultation on new products.

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