



Strength Test

Wooden and laminate doors are not only weaker than GRP doors, and thus more easily damaged, but can also pose a higher risk, as a knock or chip may reveal organic materials below where bacteria could reproduce, as well as being virtually impossible both to clean and to keep clean effectively.

The table below shows the strength of GRP compared to alternative materials. GRP doors are extremely strong whilst been lightweight and easy to operate.

Mechanical Properties of GRP Compared to Other Structural Materials

Material	Specific strength (Mpa)	Specific gravity	Tensile strength (Mpa)	Compressive strength (Mpa)
Mild Steel	31	7.8	240	240
Aluminium Alloy	154	2.7	417	417
Stainless Steel	30	7.92	241	241
GRP	417	2.16	900	450

Mpa—Measurement of Unconfined Compression Strength