

Abstract :

In recent decades, glass has seen an amazing technological revolution in the construction sector. And thus moving from a simple glass façade to a glass with multiple characteristics of mechanical strength, safety, heat and sound insulation and solar control as well as its use in decoration.

The requirements of the construction sector on the level of energy consumption for building, its resistance to various climate factors, aesthetic aspect and ease of maintenance prompts us to choose the appropriate materials to achieve this. Thanks to its characteristics obtained during the conversion process. From the above the glass material value can meet the requirements above.

The recycling of glass in the mortar contributes to the sustainable development of this vital building material, balancing the limits of environmental protection and economic and social considerations.

Our study was designed to enhance the remains of glass by looking for the optimal mortar structure based on the glass which gives optimal mechanical properties.

forty eight (48) mortar samples were prepared on the basis of glass in doses ranging from 10% , 20% and 30%. Mechanical tests (pressure strength tests and tensile strength test bending) were performed after soaking in water.

The results showed that the glass doses give a said compressive strength and tensile strength