

Brazilian Results on Structural Masonry Concrete Blocks

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20435534&lokasi=lokal>

Abstrak

The Purpose of this paper is to study the mechanical behavior of concrete blocks and prisms when performing axial compression tests within the Brazilian base of knowledge, intending to foment data of this kind for a world based networks. The block were built using five different mixtures in which the quantity of cement and the compacting ratio (density) were varied (during the fabrication process). The three course high prisms were assembled using 1 cm (0.39 in.) thick full badded joints, always trying to leave the mortar's characteristic constant . The axial compression test were conducted according to Brazilian practice code recommendations, because most of the these standards are very similar to international practice code s. The compressive strenght, strains, and rupture form of each mixture studied were recorded . Attempts were made to correlate the strength, efficiency ratio(block strength / prism strength of the prisms, strains and rupture form ; with the quantity of cement and compacting ratio. The data are presented in tables and figures, and the obtained results are discussed throughout the text.