Waste Disposal of Concrete Scrap

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Abstract: The problem of recycling waste concrete scrap resulting from the demolition of old buildings and structures is discussed. It has been established that screenings from crushing concrete scrap waste have increased dust content, which can worsen the environmental situation in the area of dismantling buildings and structures. The physical and mechanical properties of screening samples of scrap concrete waste were measured and the nonlinear dependence of the moisture content and dust particles in them was shown. Experimental data on screening samples of concrete scrap based on fractional composition were obtained. The dependence of the average weight of the screening residue on the grain size in the studied samples was established, having extreme values in the region of 5 and 0.315 mm. To improve the strength of concrete screenings, it is proposed to add up to 5 % Portland cement to it.