

PRESENT RECYCLING TECHNIQUES FOR CONCRETE AND MASONRY WASTE IN THE CZECH REPUBLIC

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Application of recycled materials in the building industry is essential for permanently sustainable development of a country. In the Czech Republic, the use of primary sources and materials is becoming unbearable from both the economical and ecological perspective and so there is an effort to seek the possibility in re-use of those building materials whose live-span has been exceeded. At present, the mostly recycled materials in the Czech Republic come from the recycled waste of bricks, concrete, asphalt, mixed building waste, various types of aggregates and soil. The anticipated contribution will bring the recent numbers on building waste which has been processed by recycling plants and legislation aspects in the Czech Republic, the experience gained with those companies which cooperate with the Czech Technical University in the recycle improvement program, the experience from experiments with recycled building materials which are tested for future use as ordinary building materials and an overview of prospects and willingness of construction companies in the Czech Republic to use recycled building materials. A part of the contribution will be devoted to strengthening of concrete made of recycled masonry aggregate with dispersed synthetic polypropylene fibres, which is now being developed in our department.