

## Ecological waste management in apartment buildings

On the basis of the European Directive 2008/98/EG the Luxembourg law on waste management of 21 March 2012 provides that apartment buildings have to be equipped with the necessary infrastructure to allow for a separate collection of the various waste fractions (Art. 13, paragraph 3).

The „Apartment buildings“ project

The main aspect is to largely reduce the quantity of residual waste by the separate collection and recycling of different products. In addition to the classic valuable substances like paper, glass and packaging (Valorlux), “bio-waste” should also be collected separately in apartment buildings in addition to various hazardous substances as medication, lighting appliances, electric appliances, batteries, packaging with paint residues or other hazardous substances and aerosols (spray cans). The building management organizes the transport of these products.

The “apartment buildings” project is based on the separate collection of waste on site. For this local adaptation, the SuperDrecksKëscht® fir Betriber provides the following solutions:

- Advisory services for the building management or co-owner community
- Inventory and analysis of the existing situation
- Compilation of a collection and processing concept taking into account the local situation
- Briefing of inhabitants, training of building management staff (if applicable)

The implementation of the collection and processing of products is the task of the inhabitants, the building management, the co-owner community or an external service provider and includes:

- Purchase of containers and shelves
- Mounting and maintenance of the collection site
- Continuous support
- Recycling of used products
- Annual balance sheet

The collection of the various waste types can be of different levels. Accordingly, three different types of collection sites are foreseen, which due to the frequently limited space available in apartment buildings, are particularly flexible and space saving. The national law on waste management provides for a waste separation that corresponds to the “basic separation” (type 3) of the concept of the SuperDrecksKëscht® fir Betriber. Furthermore the concept provides for an „extended“ separation (type 2), as well as „label separation “ (type 1). The inhabitants can deposit up to 27 different types of waste separately without having to go to a recycling centre or a collection site of the SuperDrecksKëscht® fir Betriber.

The project “apartment buildings” of the SuperDrecksKëscht® fir Betriber also provides for the awarding of the SuperDrecksKëscht® label. This requires the implementation and operation of a collection site of type 1 („label separation “).

### Results

The collected household waste no longer gets mostly deposited in the residual waste but is collected separately to a larger extent. This reduces the quantity and the danger potential of residual waste. Furthermore the material re-use of waste is supported because it is easier to allocate the substances to the various processing channels.

The system of the separate collection is implemented on the entire Luxembourg territory and in apartment buildings of any size. The “apartment buildings” project allows the inhabitants of an apartment building to dispose of their waste in compliance with the law while a large part of secondary raw material is re-injected into the economic cycle.