Airport Name: AMA Airports
Responsable: Alessandra Pereira dos Reis, Environmental Manager
Project's Name: Sustainable Bins

Resumen Ejecutivo

The project of sustainable collectors was designed to meet the operational demands of airports, applying the concepts of circular economy, bringing in its essence sustainability, demonstrating in a practical way the benefits of recycling, encouraging users from the moment of waste disposal.

The raw material for the production of the collectors comes from the process of pressing and melting solid waste (75% various plastics and 25% aluminum), which are transformed into a homogeneous plate and molded to make the collectors.

The collectors are arranged in pairs, being 01 of 200L for recyclable waste and 01 of 100L for non-recyclable waste.

Because it is characterized as a circular product, being 100% recycled and 100% recyclable, it was designed in order to generate the minimum of waste, so that the collectors once unfit for use, can be sent back to a recycling process, meeting the principles of the circular economy which is to keep materials and resources in use extending their useful life, and not generate pollution and tailings. Thus reducing the impacts from the extraction of raw materials to the disposal of waste resulting from it.

Once the material is no longer in conditions of use, it must be sent to the manufacturer for dismantling and correct forwarding, so that they are inserted in new circular processes, returning to the production chain, not generating any environmental damage.

Main features of the sustainable collector:

- Because it is made of plastic and aluminum, it is waterproof, fully washable and water resistant;
- It is resistant to chemical disinfection agents;
- They are light 7Kg and 9Kg, thought in the ease of handling, movement by employees;
- It has a long durability if sanitized and handled according to the manufacturer's instructions.
- Material resistant to thuds and grooves, not damaging easily;
- Material does not offer the possibility of mold foci appearing.

- Non-flammable material and does not propagate flames, making it a safe item for use in places with large flow and concentration of people.
- Resistant to leaks, because in the manufacture will be applied silicone throughout the internal part of the collectors to avoid any leakage claim by the collectors.

Projects Benefits and Results

Dumpsters are the basic tools to start the waste management chain, promoting segregation at the generating source, so it is important that they transmit the concept of sustainability to passengers at the time of waste disposal. The design of sustainable collectors brings numerous benefits, as described below:

- Made of 100% recycled and 100% recyclable material (after its useful life);
- More resistant to impacts, water and fire;
- Lighter, optimizing handling and improving employee ergonomics;
- Circular design, features and sustainable look;
- Innovative design, for the category of types/collector materials;
- Reduction of approximately 70% of the time spent changing bags;
- Reduction of approximately 60% of the consumption/generation of garbage bags;
- Reduction of approximately 60% of costs in the acquisition of colored bags;
- Optimization of operation and improvement in the environment for users.