

The results of the study carried out by Ecoelastika, confirm that the two-layered rubber tiles (upper layer EPDM, lower layer SBR), intended for use in Playgrounds, meet the requirements established by EN 14877, and ensure the required safety and resistance to wear.

In particular, the research focused on the required thickness of the upper layer of EPDM granules, which ensures the durability, throughout the duration of the tiles use, in accordance with Regulation 1907/2006 (REACH).

Layer Thickness s EPDM (mm)	Low Traffic Playgrounds			Medium Traffic Playgrounds			High Traffic Playgrounds		
	Zone A	Zone B	Zone C	Zone A	Zone B	Zone C	Zone A	Zone B	Zone C
4	12,6 years	6,0 years	2,3 years	6,3 years	3,0 years	11 months	2,5 years	1,2 years	6 months
5	19,2 years	9,1 years	3,5 years	9,6 years	4,6 years	1,4 years	3,8 years	1,8 years	8 months
7	36,5 years	17,4 years	6,6 years	18,3 years	8,7 years	2,7 years	7,3 years	3,5 years	1,3 years
10	72,9 years	34,7 years	13,2 years	36,5 years	17,3 years	5,3 years	14,6 years	6,9 years	2,6 years

The present study proposes the appropriate thickness for EPDM layers, considering **three (3) different stress** zones:

- • **Zone A:** sections where users just walk
- • **Zone B:** sections where users walk (40%) and run (60%)
- • **Zone C:** sections that are under intense stress (e.g., continuous running, areas under swings, and, in general, attractions that include repeated foot contact with the floor).

NOTE: Lifespans longer than 15 years should be considered indicative of the tiles' resistance. All calculations are based on a simplified model that does not factor all aspects that can affect tile wear.

In the context of Corporate Social Responsibility and Environmental Policy, Ecoelastika implements a series of meaningful actions throughout Greece, to inform and raise awareness in the community, on issues relative to the protection of the environment and the conservation of natural resources, emphasising on the recycling and utilisation of used tires, the elaboration of new useful products and the strengthening of circular economy.

As such, one of the company's significant actions is the project for the free fabrication and installation of safety floors in school yards, focusing both on the children's safety and their education on the environmental value of recycling.