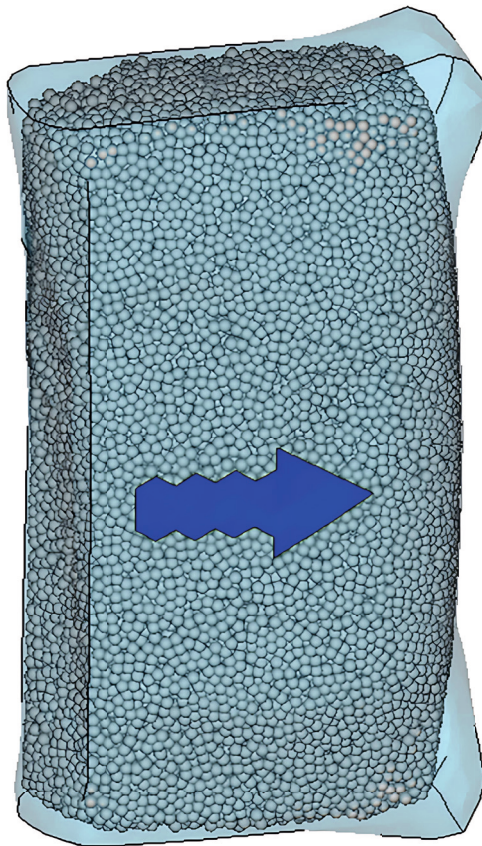


SMALL ANIMAL Pedestrian Safety System

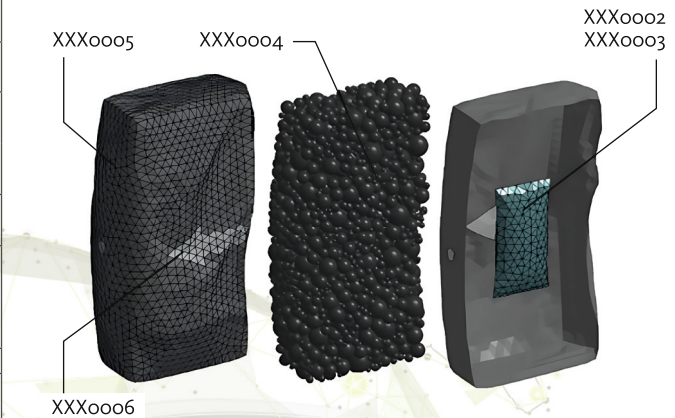


SMALL ANIMAL

The “Small Animal” (SMA) impactor is used to test the contact sensor systems in vehicles with pedestrian safety mechanisms such as deployable bonnets. This impactor was intended to roughly represent a small animal (cat, rabbit, small dog, ...), that might collide with the front of a vehicle. During development of sensor systems for deployable bonnets, the SMA hardware impactor is propelled in an upright position against the vehicle front with different speeds (generally between 20 km/h up to 55 km/h).

Product Features	
Total mass	1900 g
Total height	290 ± 2 mm (from ground-level)
Core Dimensions	~50*105*30 mm
Outer Dimensions	~140*250*100 mm
Particles	Leather skin & Granulated Rubber
Mesh size	~6-10 mm
Unit Systems	[kg-mm-ms] or [t-mm-s]
Solver	LS-Dyna

Physical properties of the FE impactor			
Part	PID*	Mass**	
core-tape	XXXX002	~300 g	g
core-solids	XXXX003		
particles (granulated rubber)	XXXX004	~1440 g	g
leather skin	XXXX005	~17 g	g
leather skin (marker)	XXXX006		
Total mass**	M ~	1760 g	g



The material properties are encrypted and cannot be modified by the customer, which limits their renumbering options. However, TECCON Austria can provide the necessary support if required.

