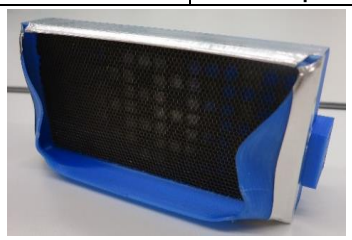
DrivAer TEST Data Exchange

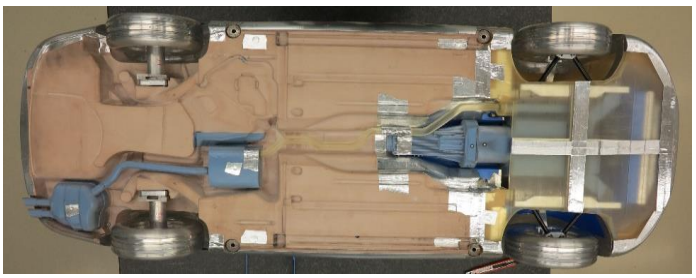
COMPANY	FKFS	DATE	13.8.2018	CONTACT	Dr. Timo Kuthada
DrivAer Configuration	E_EB_wM_wW_woL_oG			EMAIL	timo.kuthada@fkfs.de

Tires		Wheels and Track		Geometrical Data	
Wheel Type	DrivAer Aluminium	Track Front [mm]	380	Length [mm]	1153
Wheel Type (Comments)	- Rigid (no tire deformation)	Track Rear [mm]	380	Width [mm]	438
		Tires Front	Scaled CAD	Height [mm]	357
		Tires Rear	Scaled CAD	Wheelbase [mm]	697

Cooling Package		Cooling Intakes / With Active Shutters		Ride Heights from Ground to Wheel-Arch	
Heat Exchanger	FKFS	Upper Grill	Open	Front Ride Height [mm]	172
HX Pressure Drop A:	0.0237	Lower Grill	Open	Rear Ride Height [mm]	171
Δp = A*v + B*v^2 B:	6.5678				
HX x-Position [mm]	13 (top); 34 (bottom)				
HX Thickness [mm]	10				
Fan Shroud x-Pos. [mm]	58 (top); 79 (bottom)				
Sealing	Fully sealed				
Leakage Area (mm^2)	0				



Wheels as tested



Underbody (CAD-Data or Photo)

Test Facility & Vehicle Setup				
Test Facility	IVK Model WT	Windspeed [kph]	270	
Data Correction	None	Road Simulation	None	
Blockage	8.18%	YAW Angle	0	
Boundary Layer Treatment	None	Model Mounting	Struts in ground	
Model Scale	1:4			
REMARKS (Deviations from Baseline OC DrivAer model)				

Front View

Test Data			
	Open Cooling	Closed Cooling	Additional Test Data
Cx	0.308	0.296	
A [m^2]	0.133	0.133	
Czf	0.009	-0.025	
Czr	0.042	0.051	
Cooling Mass flow [kg/s]	0.12		
Underhood Ref Pressure (#415) (Cp) [-]:	-	-	
Wheelhouse Ref Pressure (#566) (Cp) [-]:	-	-	