

Company Presentation (updated: July 2022)

AUTOMOTIVE

- TECHNICAL **M**OULDED RUBBER **P**RODUCTS;
- EXPANDED RUBBER **M**ATS;
- LABORATORY **T**ESTS



Design & Manufacturing



SOGO
RUBBER TECHNICAL PRODUCTS



SOGOLAB
FREE TO SHAPE

— SINCE 1967 —

SOGO SpA Group is an Italian consolidated industrial reality,
Focused on the design, production and distribution of:



- **technical RUBBER components;**
- **EXPANDED RUBBER mats**

Mainly for the **AUTOMOTIVE**,
industrial and **railway** applications



- **development & production of RUBBER COMPOUNDS**
- **LABORATORY TESTS** on finished products

AUTOMOTIVE



RAILWAY



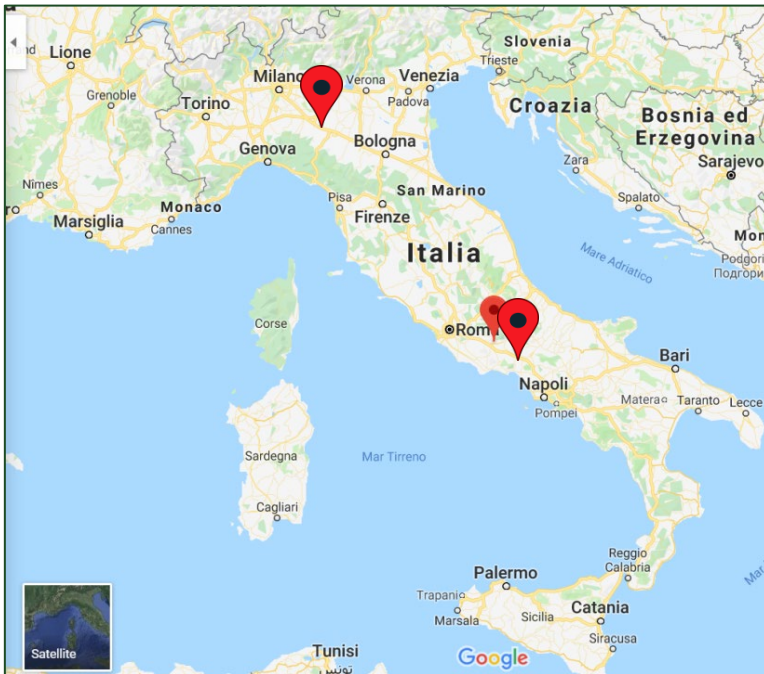
INDUSTRY



COMPOUNDS



SOGO – Where We are



ITALY - Frosinone



SOGO SpA – with its HeadQuarter and its **Production Facility in Italy (Frosinone)** and a warehouse in Milano area - is expanding its presence **Worldwide** in order to further and better support the Customers' needs:

-  **Italy (HQ & Plant);**
-  **France;**
-  **Germany;**
-  **Bulgaria;**
-  **Marocco**



The Production Plant has achieved all the **Certifications required** in order to supply **AUTOMOTIVE, Railway and Industry** applications

SOGO – Certificates



ISO 9001



IATF



ISO 14001

SOGO – Highlights



Founded in **1967** in Frosinone Italy, **SOGO SpA**
Italian production plant covers more than
25.000 square/meters with a production
capacity over **9.000 tons/year** and more
than **1.500 compounds formulations**.

— SINCE 1967 —

www.sogo.it

SOGO
S.p.A

SOGO S.P.A.
INDUSTRIA ARTICOLI TECNICI IN GOMMA

SOGO® s.p.a.
ARTICOLI TECNICI IN GOMMA

 **SOGO**
RUBBER TECHNICAL PRODUCTS

 **SOGOLAB**
FREE TO SHAPE

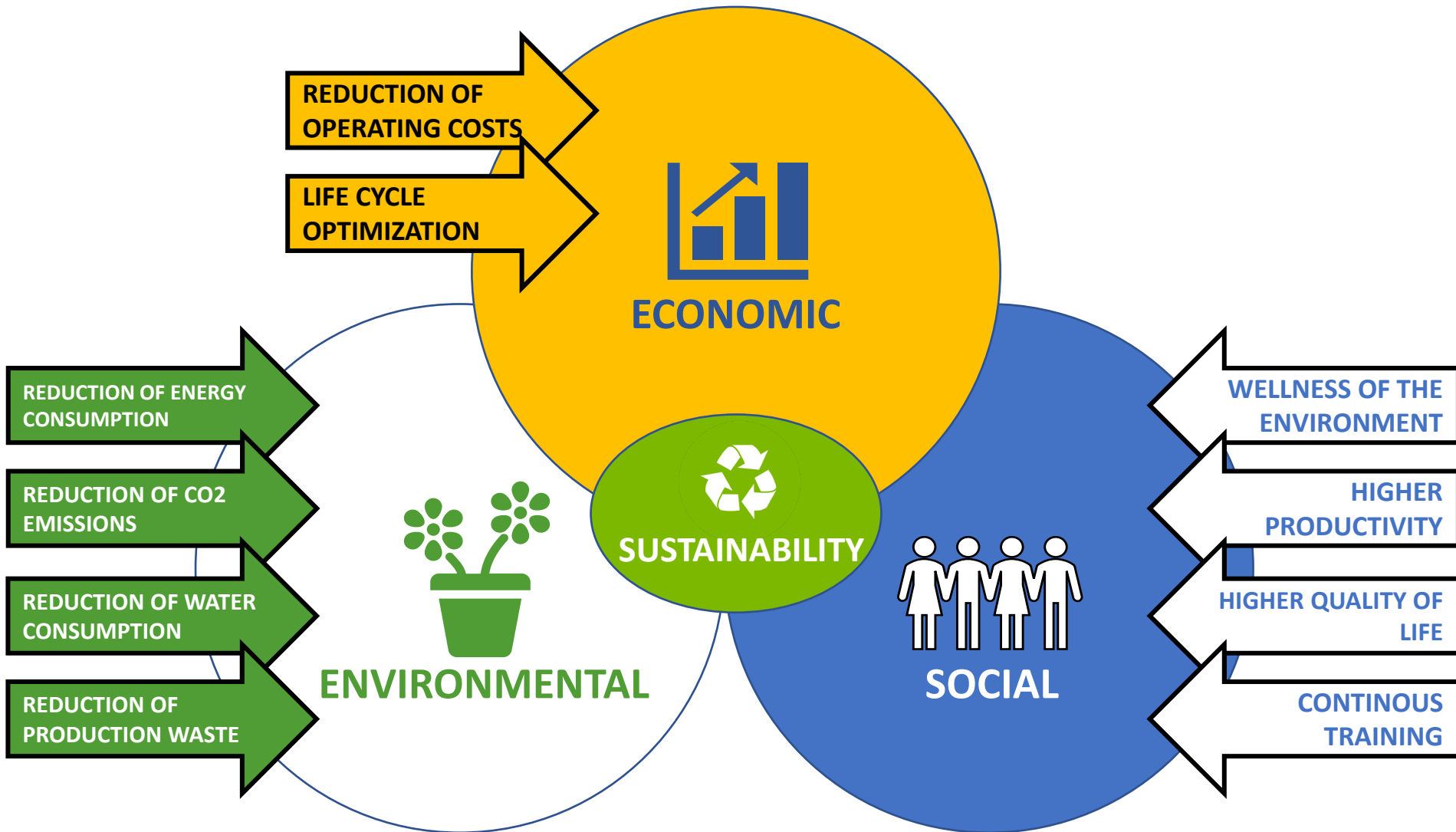
1967

1998

2006

2017

SOGO – Sustainability and Environment



SOGO – Renovation Plant (finished in September 2019)





SOGO LAB

FREE TO SHAPE

In **2016** «**SOGO-LAB**» was born, thanks to important investments in lab-instruments, technologies and highly specialized personnel; with the aim of supporting customers in the **design**, **co-design** and in the **testing** phases

CONCEPT
DESIGN

CO-DESIGN

ENGINEERING

LAB
SIMULATIONS

PROTOTYPING

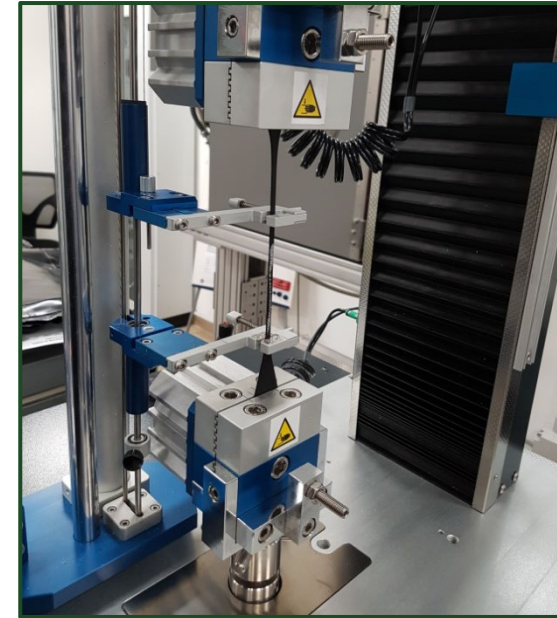
TESTING



NEW LAB TOOLS

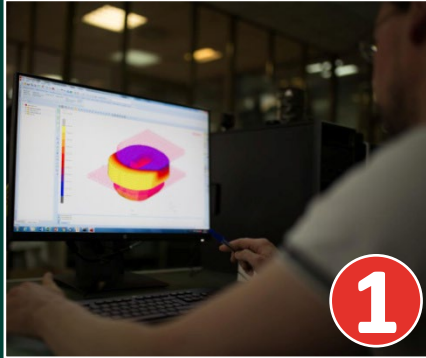
Dynamometer, ShoreA Durometer, Rheometer, Thickness Gauges, Calipers, Micrometers, Profile Projector, Compression Set, Impact Tester, Flammability Tester, Ozone Tester, Ovens, Theraometer, Mooney, Laboratory Samples Press, IRHD, Densimeter, Abrader, 3D Measuring System, Climatic Chamber, MTS with climatic chamber, Design Tools

SOGO-Lab – New Laboratory

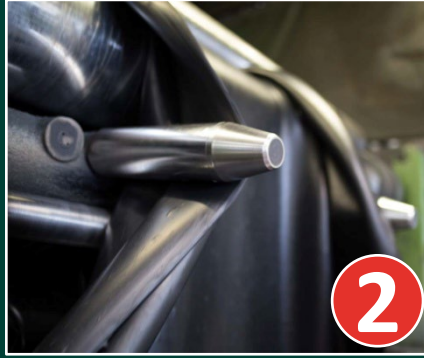


What do we do?

CO-DESIGN



COMPOUND



RAPID AND STANDARD PROTOTYPE



MOULDED RUBBER



CO-MOULDING



EXPANDED EPDM & NEOPRENE



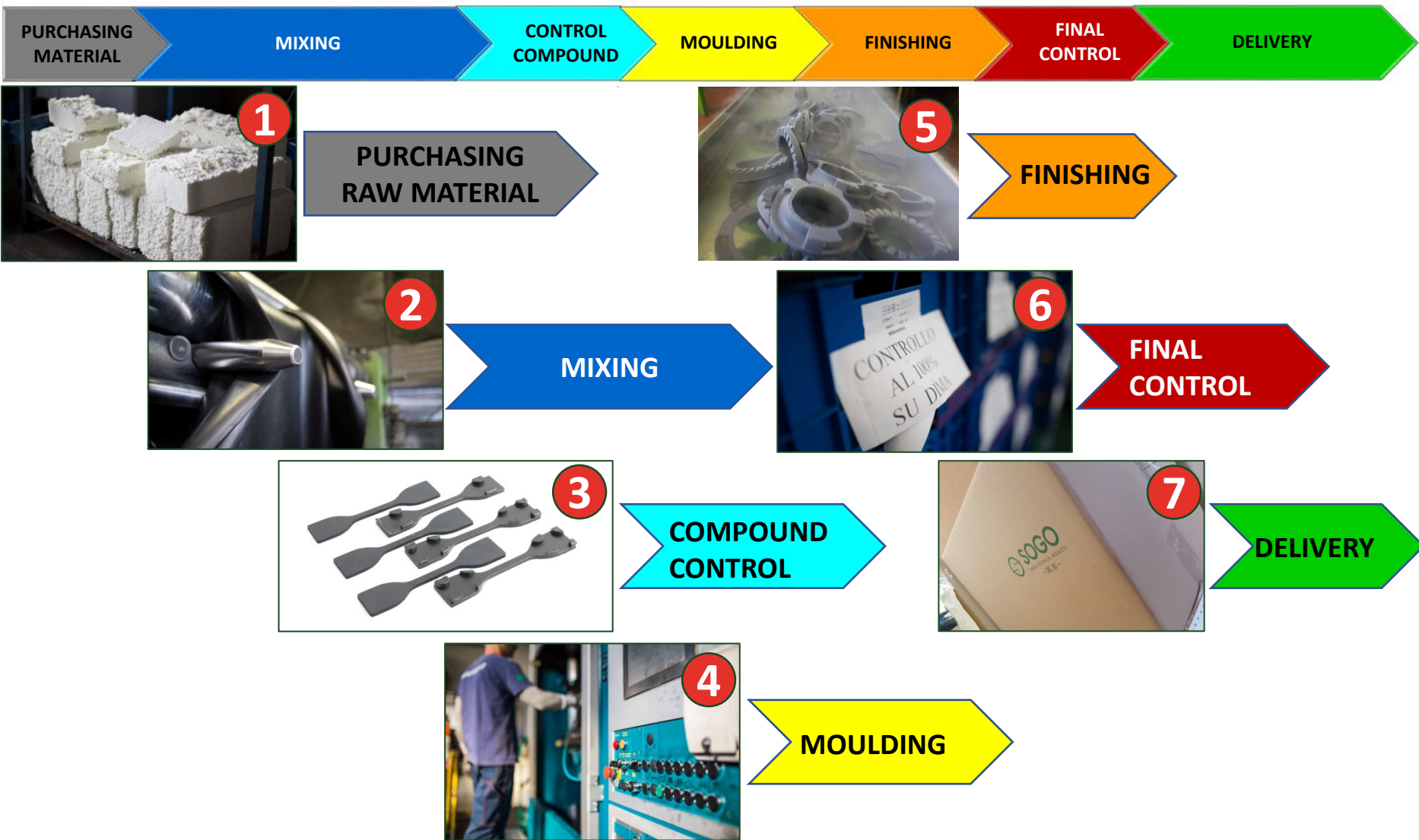
ASSEMBLYING



LAB TESTS

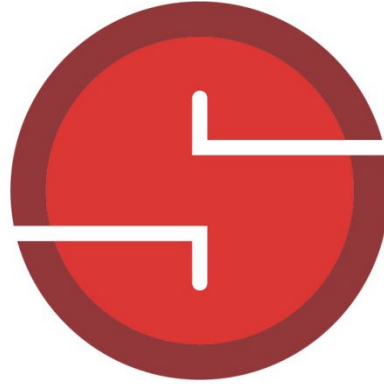


How do we do? Flow process diagram



Main Automotive Customers – Direct OEM

FIAT PROFESSIONAL DODGE VAUXHALL GM
DS AUTOMOBILES CHRYSLER
ALFA ROMEO FIAT PEUGEOT SMART
STELLANTIS JEEP DAIMLER
CITROEN OPEL LANCIA RAM MERCEDES
MASERATI ABARTH HONDA DEUTZ
MOTO GUZZI FERRARI
CNH IVECO SEAT LAMBORGHINI
PIAGGIO VOLKSWAGEN
AUDI SEAT BENTLEY



SOGOLAB

FREE TO SHAPE

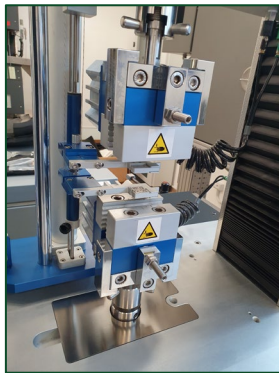
— SINCE 1967 —

RHEOLOGICAL TESTS

- Mooney viscosity
- **Rheology testing (MDR)**

MATERIALS CHARACTERIZATION

- FT-IR Spectrometer
- **Thermogravimetric analysis (TGA)**
- Differential Scanning Calorimetry

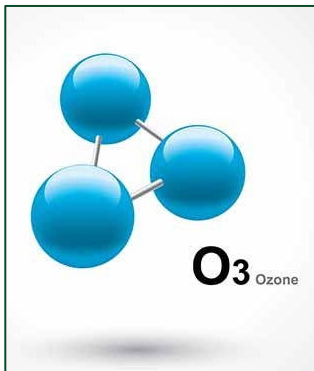


PHYSICAL-MECHANICAL TESTS

- Determination of ShA Hardness
- **Determination of IRHD and mIRHD Hardness**
- Determination of Electrical Resistance
- **Traction and compression dynamometric test**
- Determination Compression Static Hysteresis
- **Tear test**
- Compression Set Under Load
- **Compression Set under Deformation**
- Determination of Density
- **Determination of humidity**

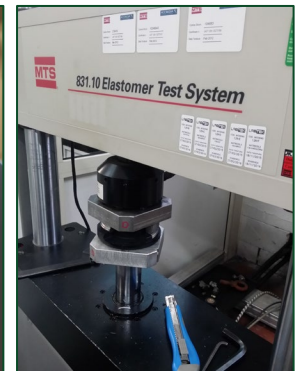
ACCELERATED AGING TESTS

- Determination of Ozone Resistance
- **Aging tests in air oven up to 200°**
- Aging tests in fluids up to 200°
- **Water absorption tests**



CHECKS ON ELASTIC CHARACTERISTICS

- Determination of Static Stiffness on Finished Component
- **Determination of Dynamic Stiffness on Finished Component (0÷200 Hz)**
- Determination of Fatigue Strength on Finished Component at:
 - T.A.
 - +250°c in Climatic Room
 - -40°c in Climatic Room



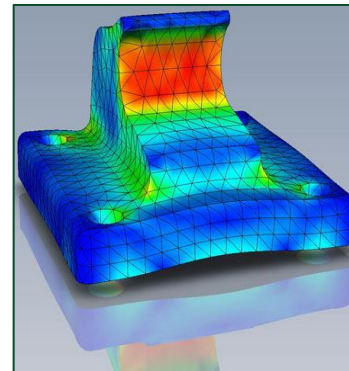
DIMENSIONAL CHECKS

- **Dimensional checks with Optical Meter 3D Core Essential GOM**



FURTHER SERVICES

- Finite Element Analysis
- **Prediction Life**
- Flow Analysis (Mold Flow Simulations)
- **New Compounds research and Industrialization**
- Specimen molding
- **Processing of samples on Finished Component with Splitting Machine**





RUBBER

EXPANDED RUBBER

CO-MOULDED



MOULDED RUBBER



EXPANDED MATERIAL

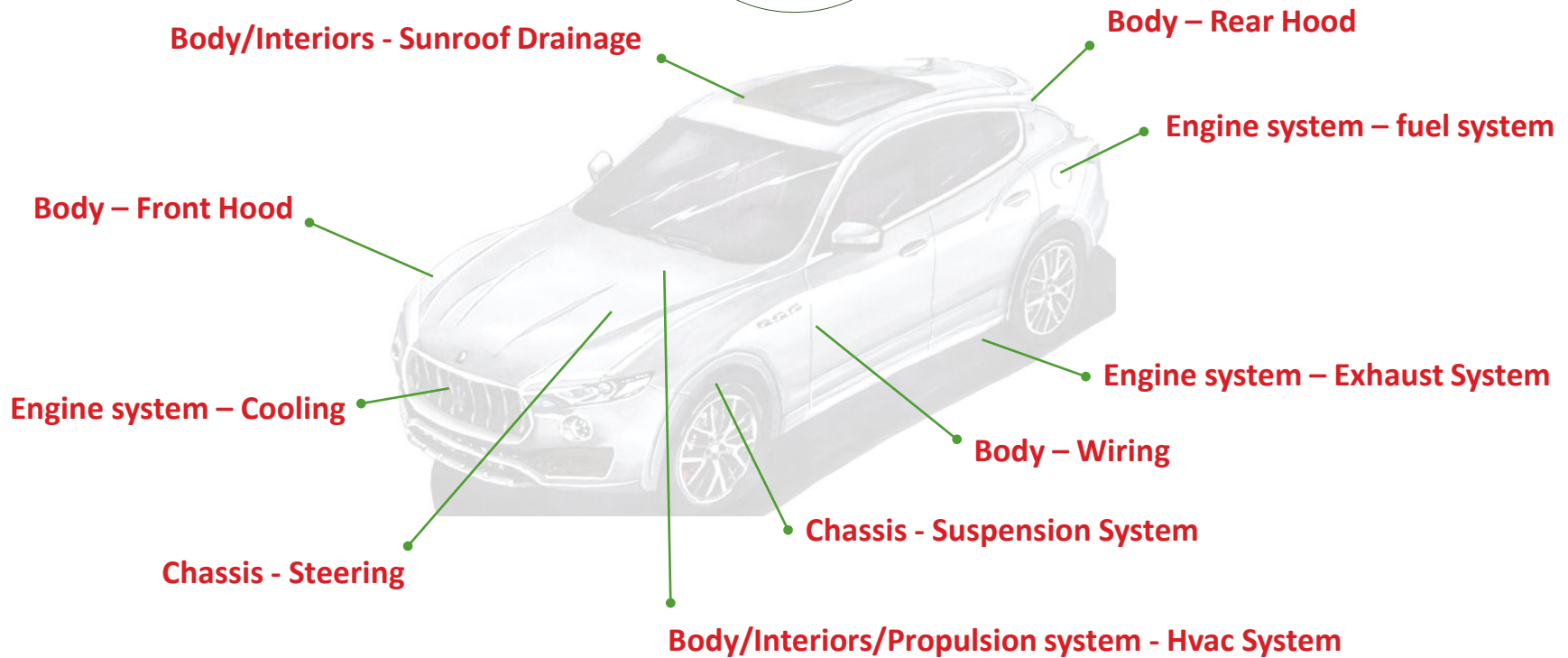


CO-MOULDED



PROTOTYPES





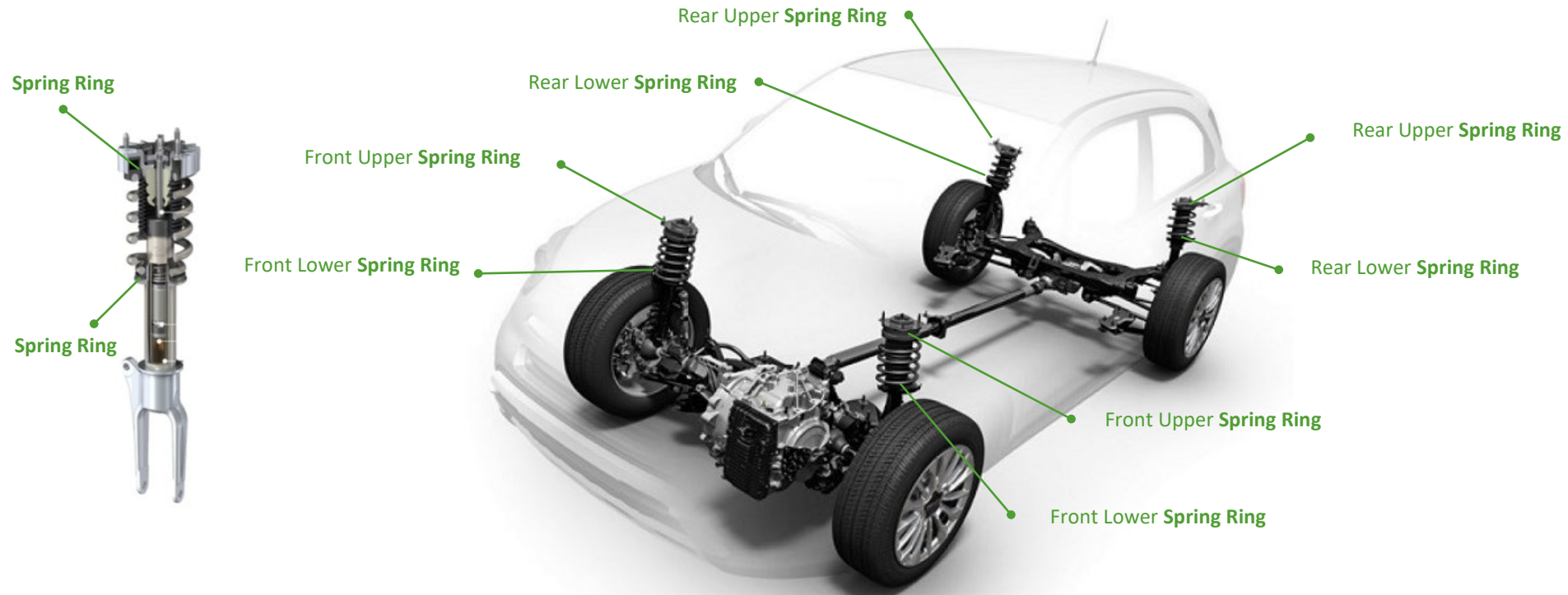
CHASSIS – Vibration Dampings for Suspension System



- **Category: Rubber**
- Material: NR/SBR 50÷80 ShA
- Technology: Injection Molding



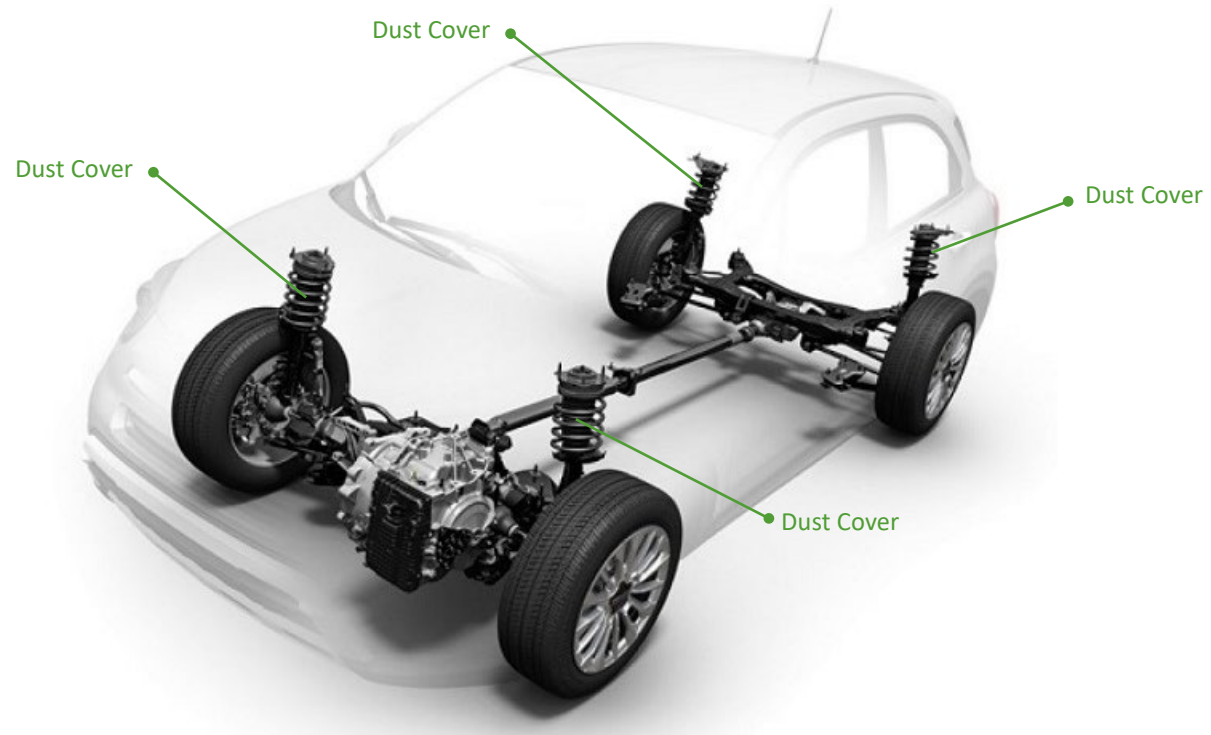
- **Category: rubber bonded to plastic insert**
- Material: NR/SBR 80 ShA + PA66 GF35
- Technology: Injection Molding



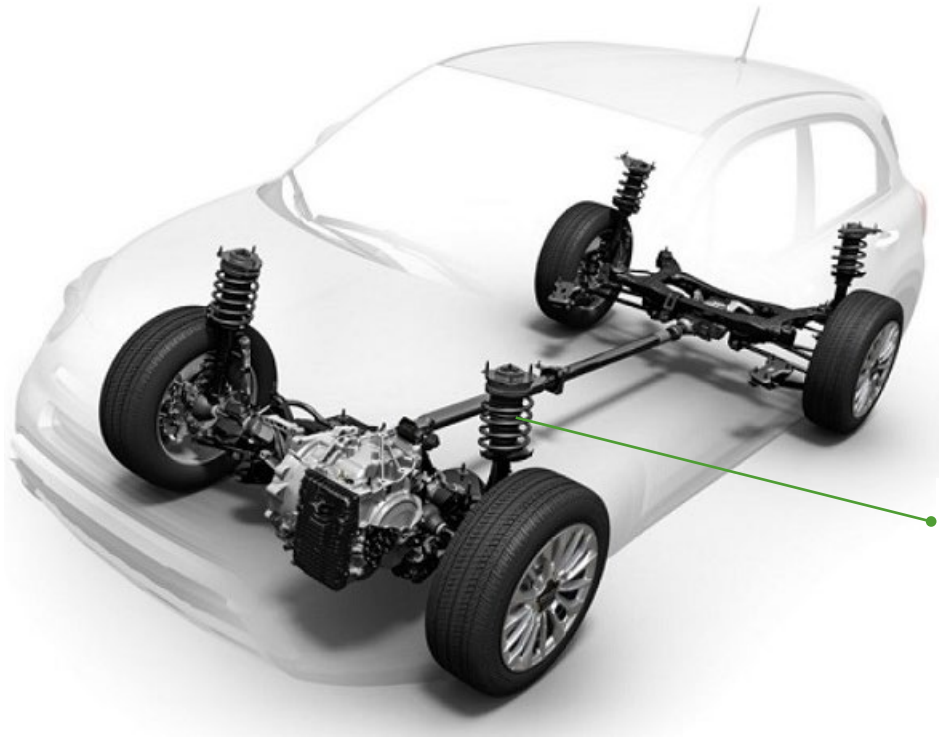
CHASSIS - Suspension System Bellows Dust Cover



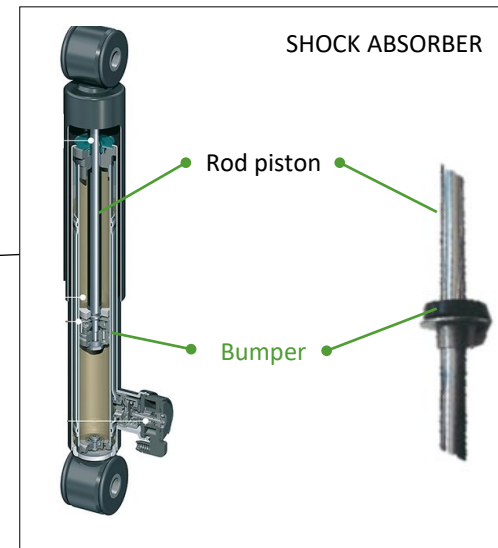
- **Category: Rubber**
- Material: EPDM 60÷70 ShA
- Technology: Injection Molding



CHASSIS – Bumper for Suspension System (rebound stop)



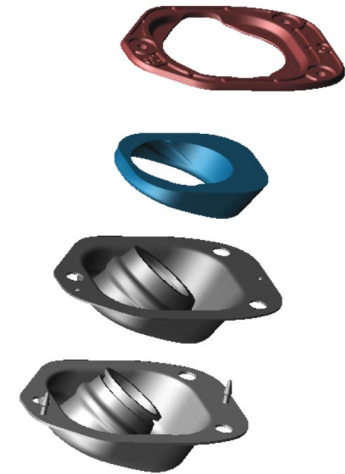
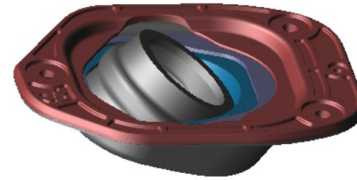
- **Category: Rubber**
- Material: HNBR 80 ShA
- Technology: Injection Molding



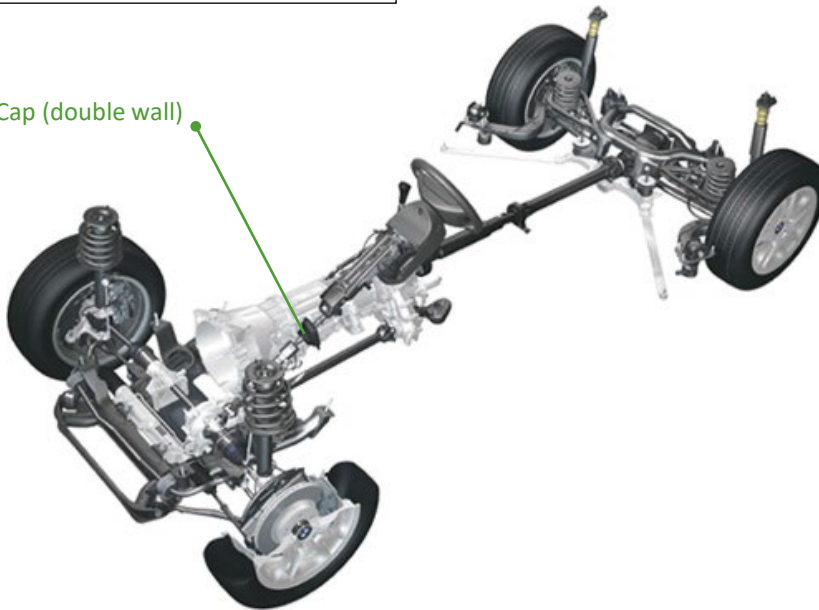
CHASSIS – Insulator Cap Steering Column (anti noise gasket)



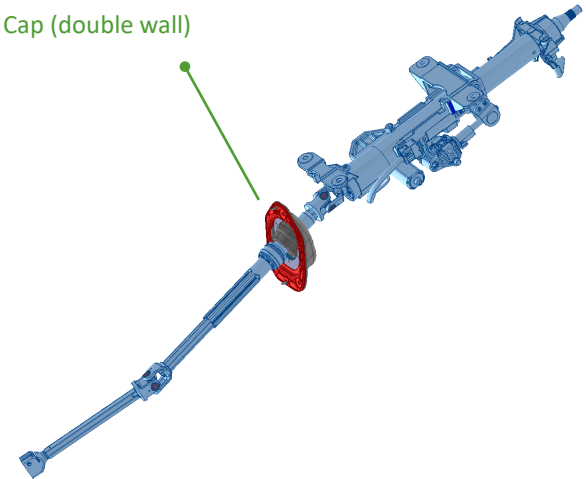
- **Category:** rubber assembled to plastic insert
- **Material:** EPDM 45 ShA + PP + PULER (if required)
- **Technology:** Injection Molding



Insulator Cap (double wall)



Insulator Cap (double wall)

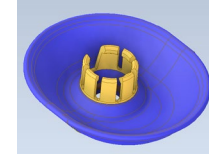
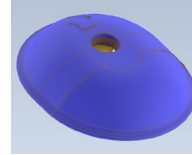
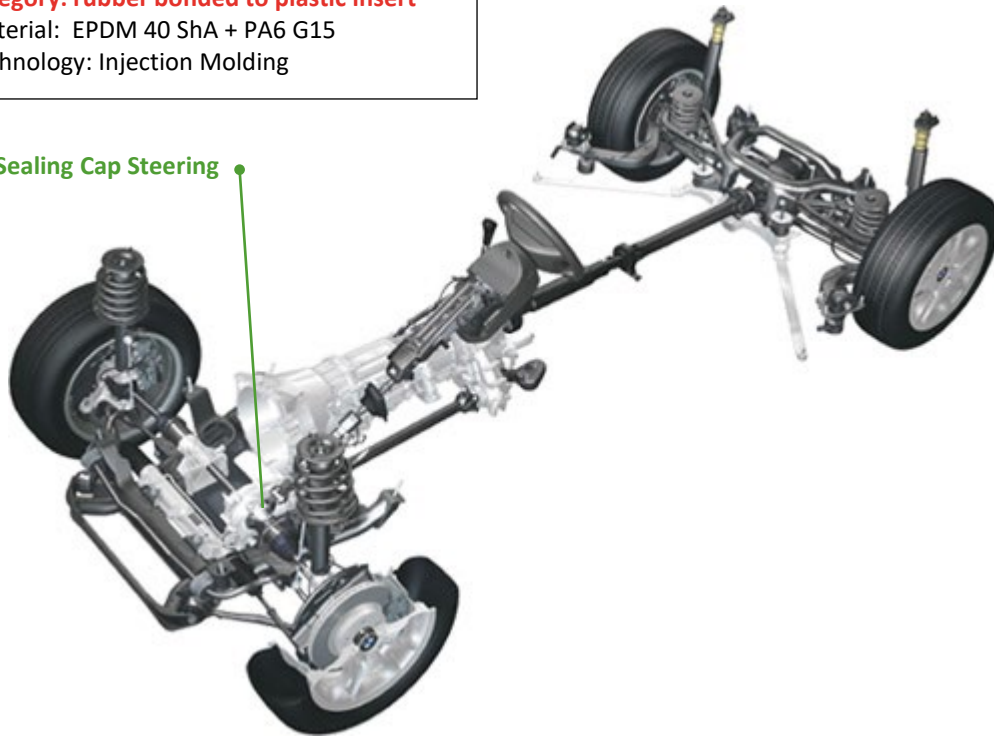


CHASSIS – Sealing Cap Steering Column



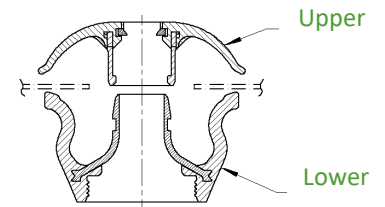
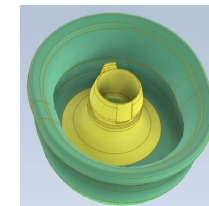
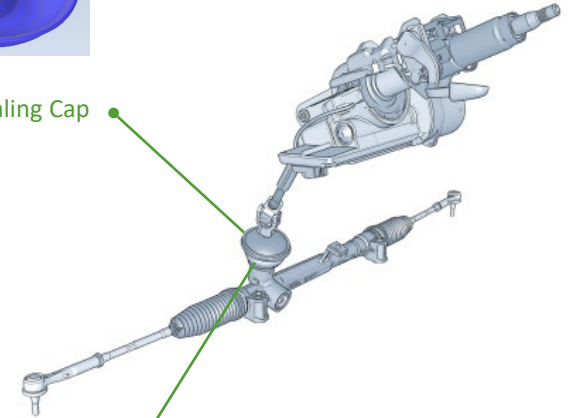
- **Category:** rubber bonded to plastic insert
- **Material:** EPDM 40 ShA + PA6 G15
- **Technology:** Injection Molding

Sealing Cap Steering



Upper Sealing Cap

Lower Sealing Cap



Upper

Lower

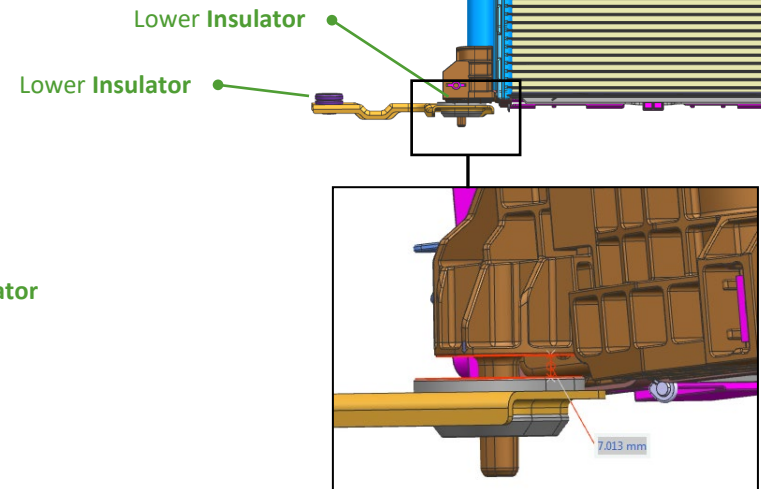
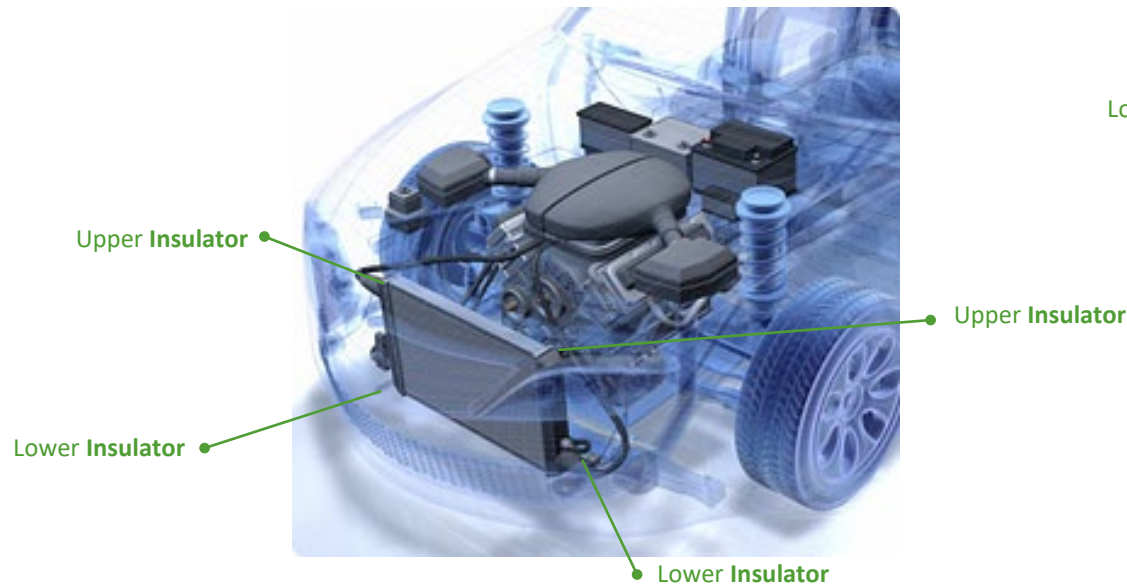
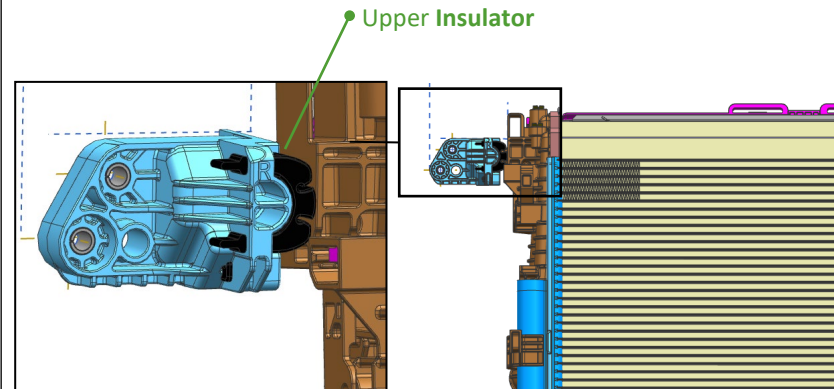
ENGINE SYSTEM – Cooling System Insulator (radiator support)



- **Category: Rubber**
- Material: EPDM 37÷60 ShA
- Technology: Injection Molding



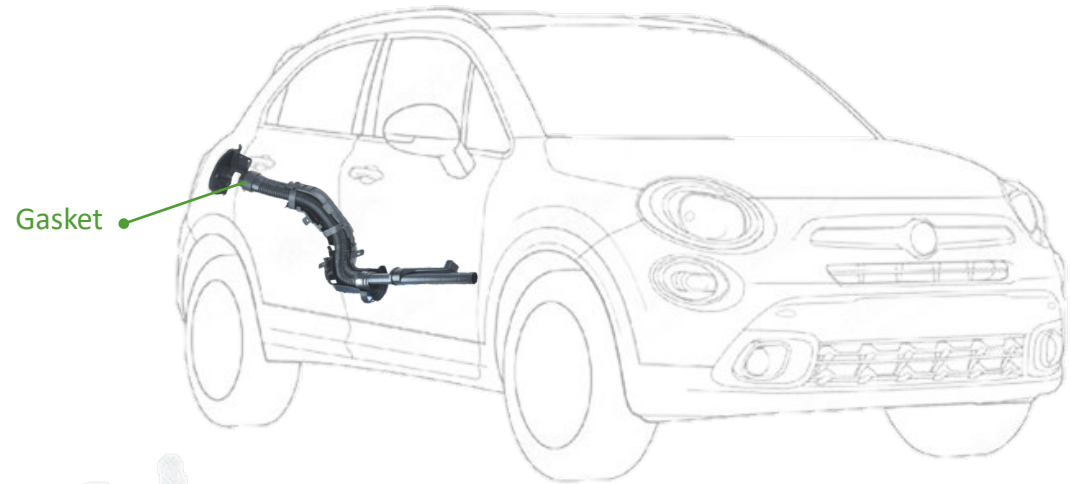
- **Category: : Rubber bonded to plastic insert**
- Material: EPDM perox 57 ShA + PA 66 GF30
- Technology: Injection Molding



ENGINE SYSTEM – Fuel Injection System Gaskets



- **Category: Rubber**
- Material: FKM 50÷60 ShA
- Material: NBR 50÷60 ShA
- Material: HNBR 60 ShA
- Technology: Injection Molding





- **Category: Rubber**
- Material: NR 50÷60 ShA
- Material: EPDM 50÷60 ShA
- Material: VMQ 60 ShA
- Technology: Injection Molding



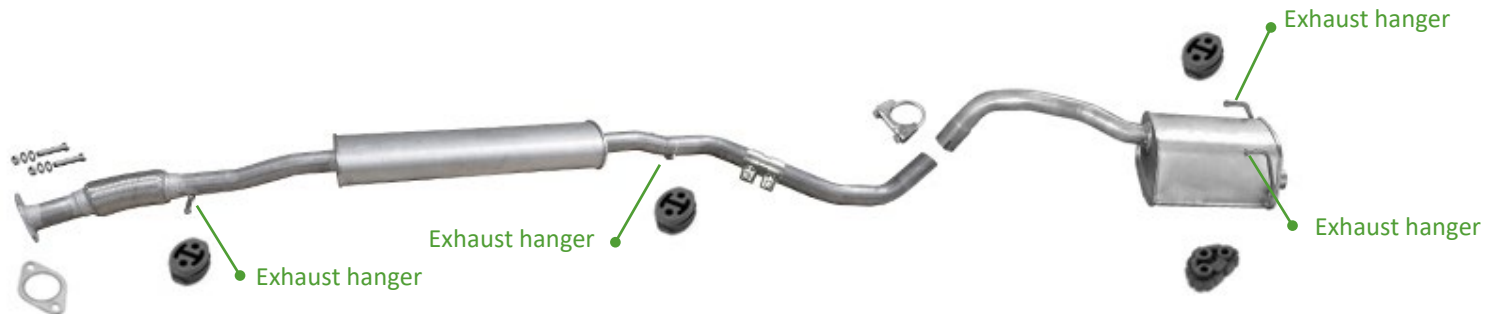
- **Category: Rubber assembled to polyester**
- Material: NR 50÷60 ShA
- Material: EPDM 50÷60 ShA
- Material: VMQ 60 ShA
- Technology: Injection Molding



- **Category: Rubber bonded to polyester**
- Material: NR 50÷60 ShA
- Material: VMQ 60 ShA
- Technology: Injection Molding



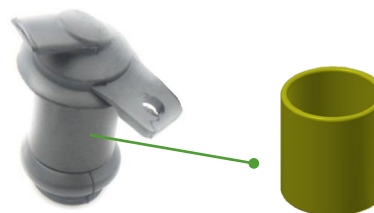
- **Category: Rubber bonded to metal insert**
- Material: NR 50÷60 ShA
- Technology: Injection Molding



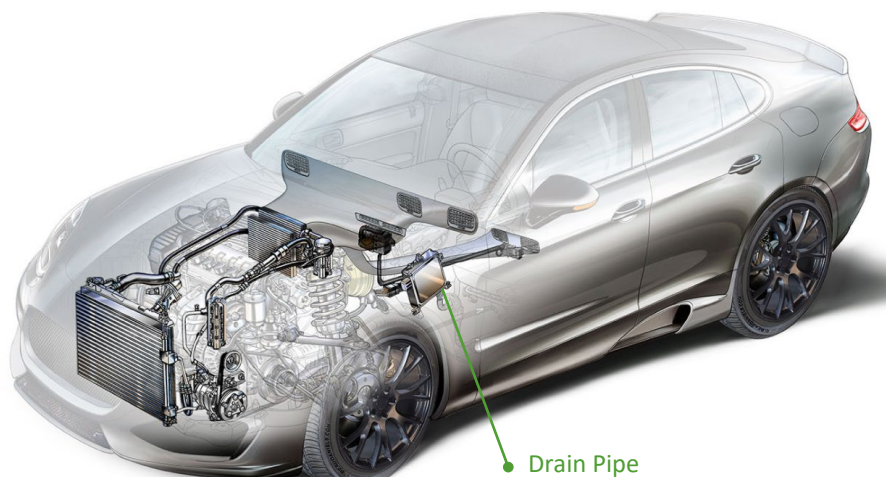


- **Category: Rubber**
- Material: EPDM 60 ShA
- Technology: Injection Molding

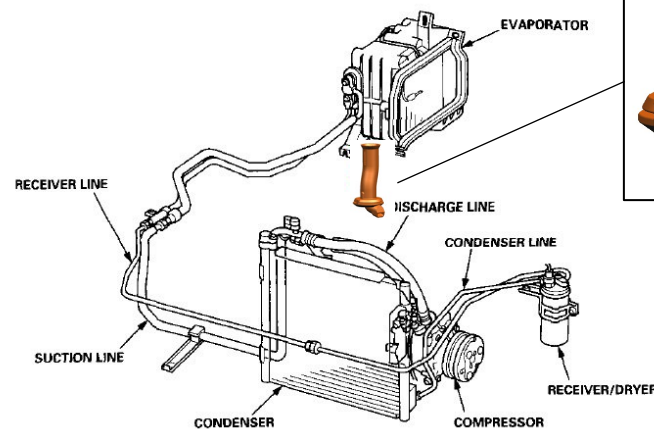
HVAC System



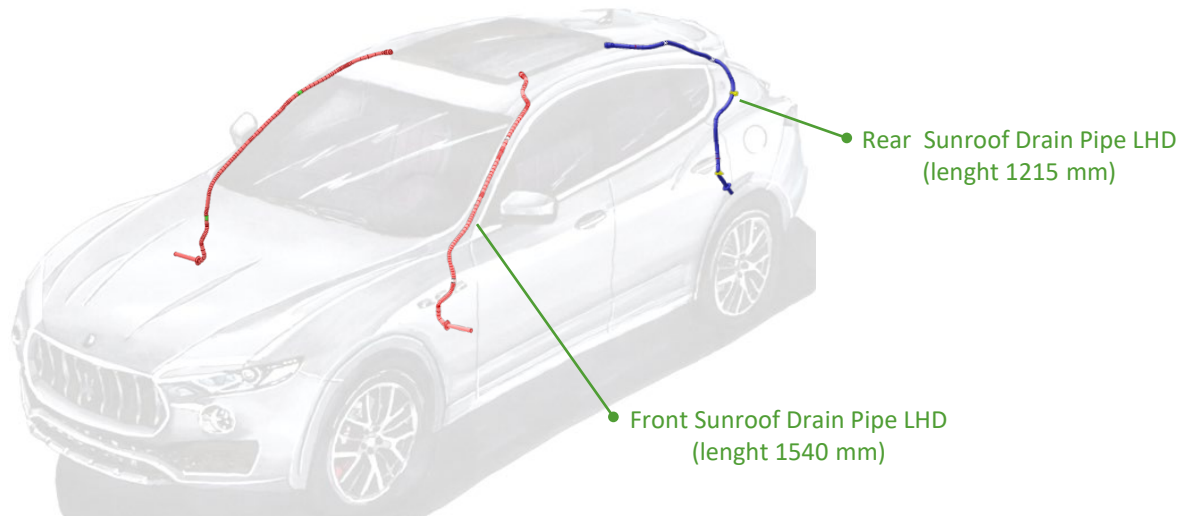
- **Category: Rubber assembled to plastic insert**
- Material: ACM 60 ShA
- Technology: Injection Molding



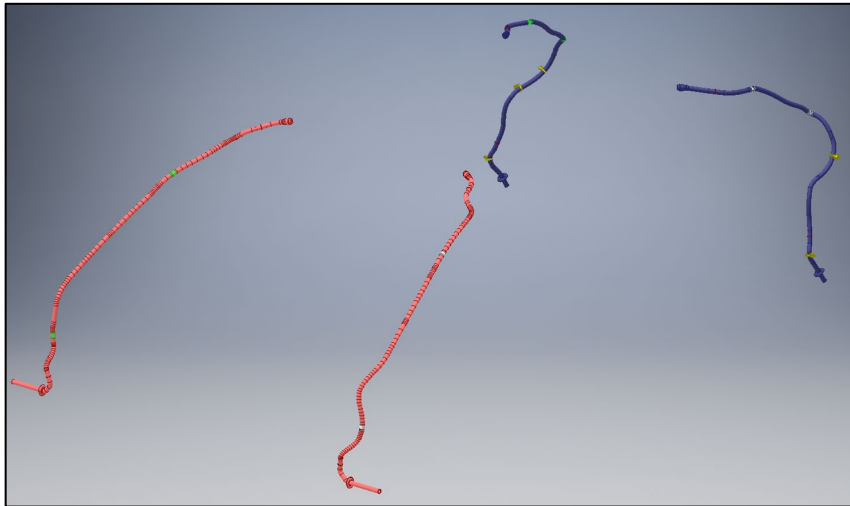
Drain Pipe



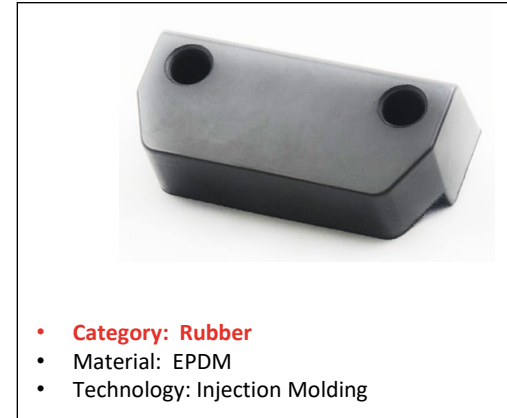
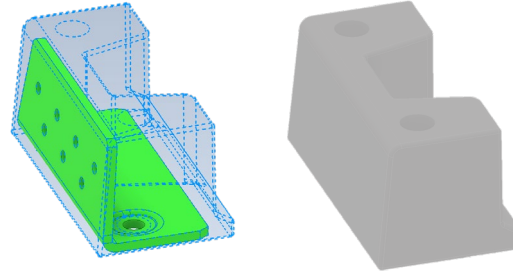
BODY/INTERIORS - Sunroof Drainage – Water Drain Pipes and Fittings



- **Category: Rubber assembled to plastic insert**
- Material: EPDM 50÷60 ShA
- Technology: Injection Molding



BODY – Door Bumper Stop



Stellantis Project: X250 (Ducato)

Door Bumper



BODY – Door Bumper with/without Adhesive Layer



Door Bumper



BODY – Front/Rear Hood – Fix Hood Stop



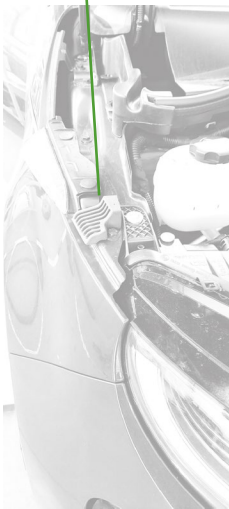
- **Category:** Rubber bonded to Acrylic Foam Tape
- **Material:** EPDM 60 ShA
- **Technology:** Injection Molding



- **Category:** Rubber
- **Material:** EPDM 60÷80 ShA
- **Technology:** Injection Molding

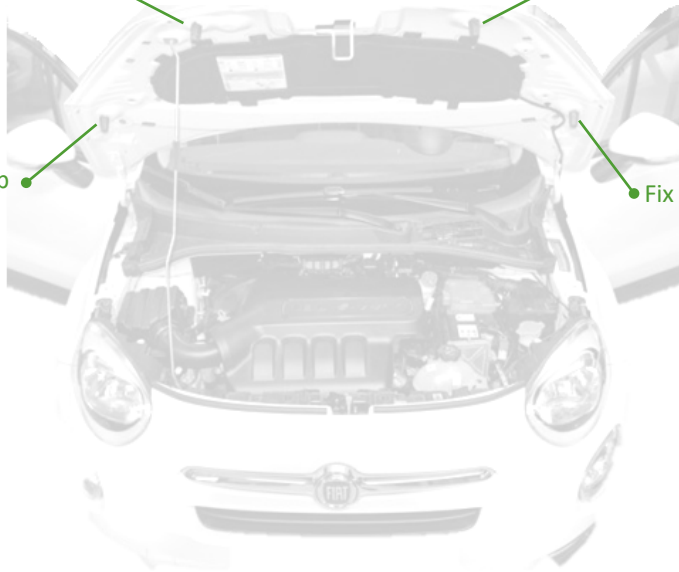


Fix Hood Stop



Fix Hood Stop

Fix Hood Stop



Fix Hood Stop

Fix Hood Stop

Fix Hood Stop



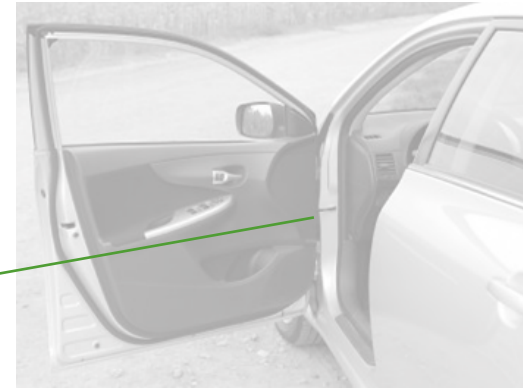
BODY – Wiring Grommet



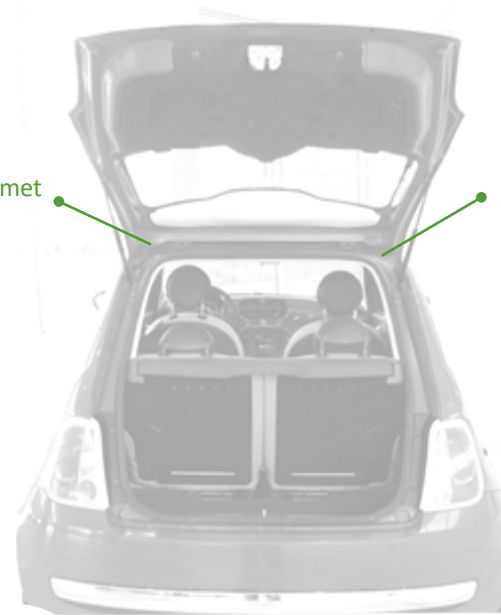
- **Category: Rubber**
- Material: EPDM 50÷60 ShA
- Technology: Injection Molding



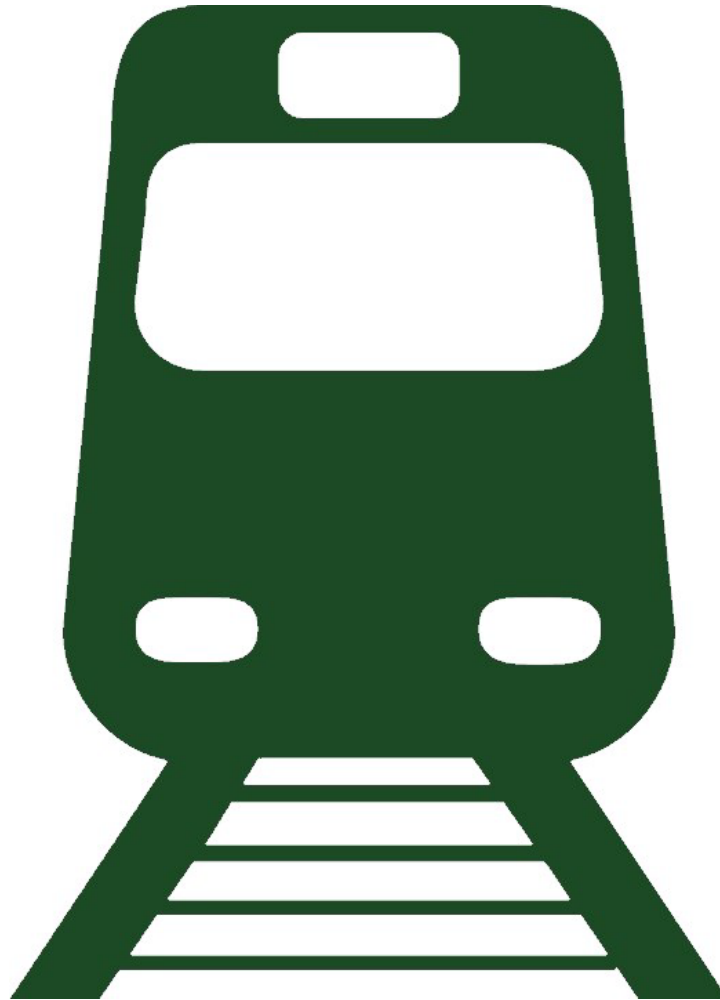
Wiring grommet



Wiring grommet



Wiring grommet



RUBBER

EXPANDED RUBBER

CO-MOULDED



RUBBER BOOT



UNDER SLAB ELASTIC BEARING



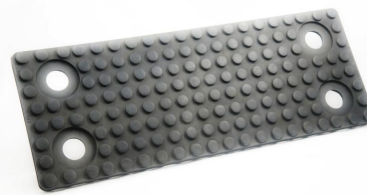
RAIL PADS



RAIL PADS



RAIL PAD



BRIDGE SUPPORTS



BRAKE MEMBRANES



ELASTIC PAD



WASHERS



RUBBER

EXPANDED RUBBER

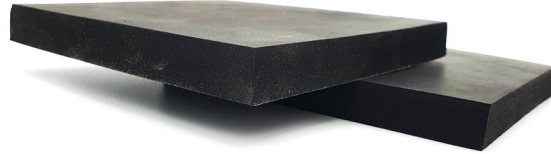
CO-MOULDED



**EXPANDED NEOPRENE
SUB BALLAST MATS**



**EXPANDED EPDM
SUB BALLAST MATS**



STOPPERS



BUMBER



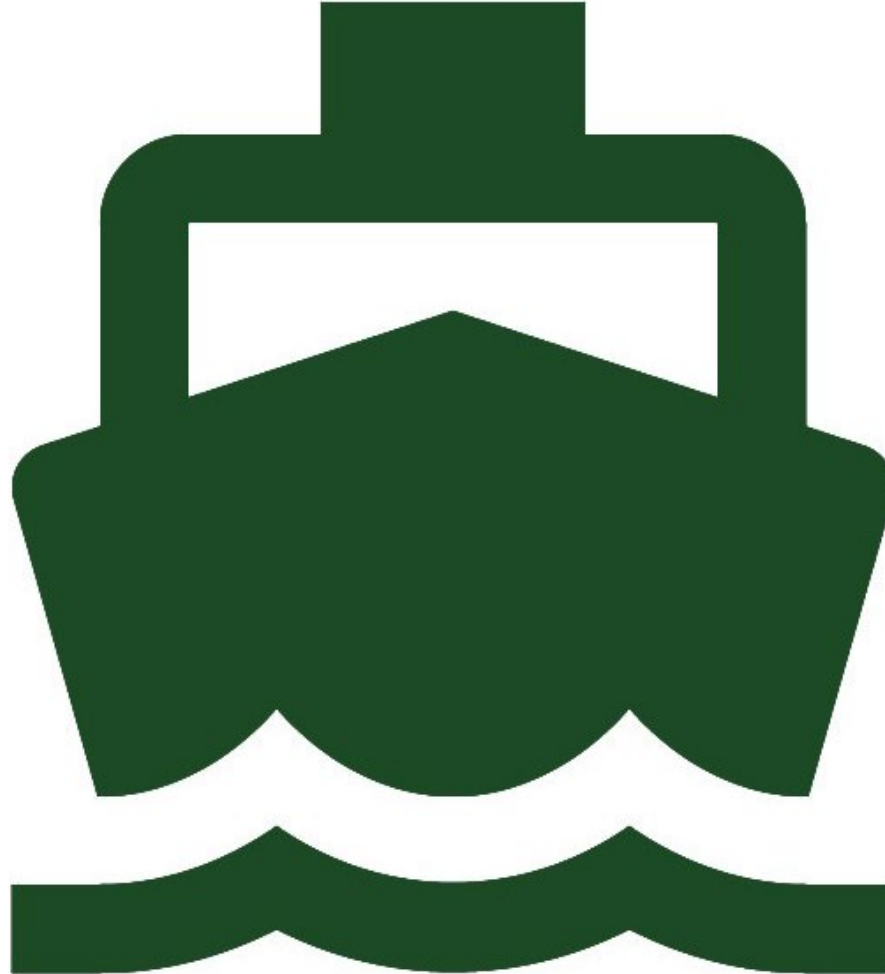
RUBBER

EXPANDED RUBBER

CO-MOULDED

Main Railway Customers





RUBBER

EXPANDED RUBBER

CO-MOULDED



GASKET, DISTANCE ITEM



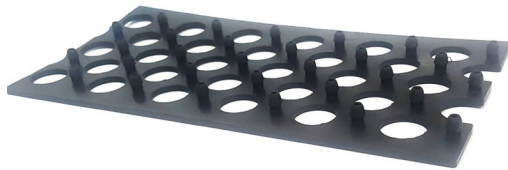
BRIDGE SUPPORTS



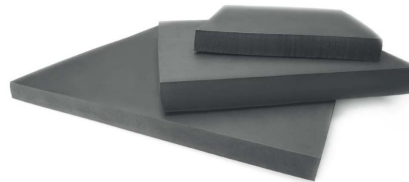
ENGINE SUPPORTS



PAD WITH ANCORAGE PINS



EXPANDED NEOPRENE & EPDM MATS



ANTI-SEISMIC BEARING



SPORT FLAT CONES



RUBBER MATS FOR PADEL COURTS



METAL TO RUBBER COMPONENTS



RUBBER

EXPANDED RUBBER

CO-MOULDED

SOGO – Contact List – www.sogo.it

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VIDEO AZIENDALE SOGO SpA – italiano: <https://www.youtube.com/watch?v=JVxbDt4pEmw>

SOGO SpA CORPORATE VIDEO – english: <https://www.youtube.com/watch?v=TuYy3V4c27U>

VIDÉO DE L'ENTREPRISE SOGO SpA – français: <https://www.youtube.com/watch?v=bkZdtl3fFhw>

VIDEO DES UNTERNEHMENS SOGO SpA – deutsche: <https://www.youtube.com/watch?v=wdWtQawj7nE>

