

LAND DEFENSE



TRANSPARENT ARMORED SOLUTIONS FOR MILITARY LAND VEHICLES

OUR SOLUTIONS - CERTIFIED BALLISTIC COMPOSITIONS

•	Product	T°	FSP
5.56 x 45 SS 109 7.62 x 51 DM 111	Standard with Anti-Spall	-32°C +55°C	520 m/s
STANAG 2 7.62 x 39 BZ	Standard with A-S SGS PR©TECT* SGS PR©TECT* 2	-32°C +55°C	630 m/s
7.62 x 51 AP 8	Standard with A-S SGS PR©TECT* SGS PR©TECT*+	-32°C +55°C	770 m/s

STANDARDS	LEVELS	
STANAG 4569	1,2,3,4	
VPAM APR 2006	6, 7, 9, 10, 13	
EN 1063	BR3, BR4, BR5, BR6, BR7	
NIJ 0108.01	IIA, II, IIIA, III, IV	



FAENAC ® Technology

Saint-Gobain Sully has various mixes of composition to answer up to Stanag level 3



OUR SOLUTIONS – CUSTOMIZED BALLISTIC COMPOSITIONS





- In partnership with its customer, Saint-Gobain Sully is **designing optimized composition dedicated to specific needs** (specific temperature, weapon, ammunition,...)
- With its **in house ballistic laboratory**, Saint-Gobain Sully tests each year **hundreds of new compositions**. We manage test at high temperature (until +75°C) and at low temperature (until -32°C)
- Our composition benefits from the Saint-Gobain knowledge in transparent materials, and know-how in process for material combination, reinforcement of glass (chemical treatment).

 → All together it enables us to propose you the best solutions
- Our target is to propose the best compromise between protection level, weight, price and reliability
- With our production footprint, we are able to propose competitive price



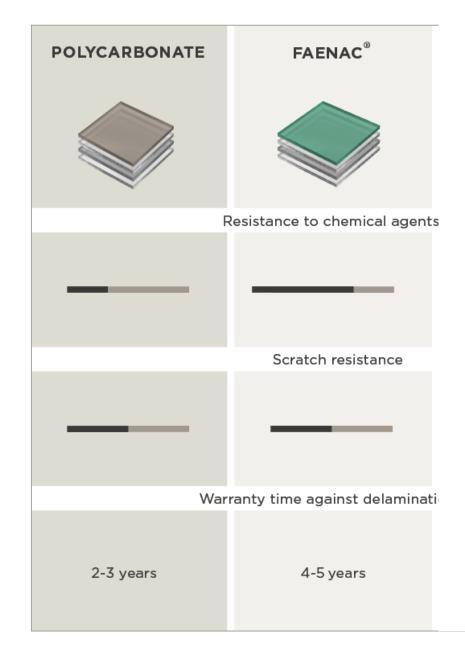


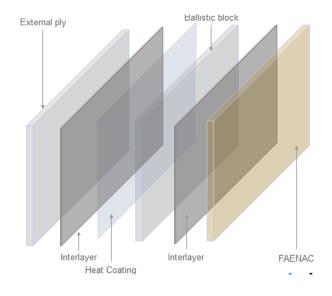






OUR SOLUTIONS – DURABILITY AND RELIABILITY





Our outstanding technology of Spallshield FAENAC® is generally chosen by our military customers. It is the only Non-PC solution on the market with 26 years of return of experience



OUR SOLUTIONS – DURABILITY AND RELIABILITY

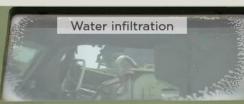
TRUE EXPECTED LIFETIME OF 20 YEARS WITHOUT











RAW MATERIALS

- Good quality materials stable against UV and temperature
- **Compatible materials** (contact between several organic materials have to be checked)
- **Each new material** (interlayer or substrate) and interface is tested
 - We measure the adhesion before and after ageing
 - We evaluate the aspect before and after ageing
 - KWT (Klimawechseltest or variable climate test)
 - Damp heat test
 - Damp heat and UV (QUV)

KNOW HOW

- Instructions for the preparation of the surfaces (cleaning, adhesion promoters)
- Instructions for the de-airing and curing
- Advanced Edge Protection of the laminate (PPN)



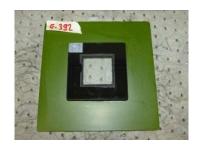
OUR SOLUTIONS – DURABILITY AND RELIABILITY

Most of our solutions are tested according to:

FEATURES	STANDARDS
VIBRATION	MIL-STD-167-1A
SHOCK	MIL-STD- 901D.5
ENVIRONMENTAL	CEI 60068-2-52 STANAG 4370 TL2350-006 MIL-STD-810G DEF-STAN-0035

CONTAMINANTS

Oils, grease, combustibles, cleaning products, coolant, washer fluid, fireextinguishing agent and decontamination agent









Our solutions had been tested by different end customers and are always defined as one of the most reliable solution



MOBILITY - AEROSPACE

CONFIDENTIAL

OUR SOLUTIONS – COMPLETE SOLUTIONS DELIVERED

Most of Saint Gobain products are delivered as complete solutions

Our framing technologies

STANDARD Glueing the glass in the frame directly

INJECTION Injection of a peripheral rubber in a custom made mould around the glass before framing

STANDARDEdge seal with a specific thickness to fit specific glass put around the glass before framing (JASC) **EDGE SEAL**

Special adjustable edge seal put around the glass before framing (Ad'JUST)

ADJUSTABLE Special ad EDGE SEAL











OUR REFERENCES



SUPPLIER OF:

































SUM UP

4 years of warranty

20 years of <u>true</u> durability Lighter composition

High Service Rate

Current client based worlwide





THANK YOU

Visit our Website:

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