

EDITION 2022

**Flexible Closed Cell Elastomeric
Foam Suitable for Construction
Control, Thermal Insulation and
Sound Absorption**

**COMPLETE RANGE OF
QUALITY HVAC
PRODUCTS**



NBR FOAM INSULATION SOLUTIONS

**MADE IN KSA
ASTM E84
CLASS 0 & 1**



COMPANY PROFILE

Saudi Rubber Factory is leading manufacturer and supplier of high quality, high –tech engineered rubber products since 1997.

SRP has earned an outstanding reputation for providing unique solution for customers' application through innovative compound and tools design .SRP is ISO 9001-2015 certified

SRP is specialized in manufacturing of NBR insulations foam tube /sheet for HVAC industries.

SRP is specialized in all rubber molded products such as O-ring, gasket, pipe seal and profile.

SRP has ability to provide custom forming parts upon clients requirement with various types of compounds.

Our Vision to be :

we love the nature,enviroment and our country

We produce for the future

SRP is the best rubber insulation manufacturer in the Kingdom of Saudi Arabia, with quality services of all types of rubber products .



■ Class "O"

SRP Flex is a multi purpose flexible elastomeric thermal insulation with a build in vapour barrier and a closed cell structure, this make Saudi Flex insulation a high resistance to water vapour transmission which in turn enable the marterial to maintain a high level of energy conservation efficiency.

SRP Flex is a dust and fibre free insulation that make it an ideal product for apartments, commercial buildings, industrial plants, oil & gas industry, marine and offshore applications.

SRP Flex the ideal choice for.

- * Refrigeration Pipework
- * Hot water piping system
- * Ducting system
- * Large pipe and tanks
- * Chilled water piping system
- * Drainage system

SRP Flex plants Located Al Qassim first industrial city, Buraidah, Al Qassim, K.S.A.

Uniquely provide On-Time Delivery, Consistent Product Quality and a Highly Competitive price.

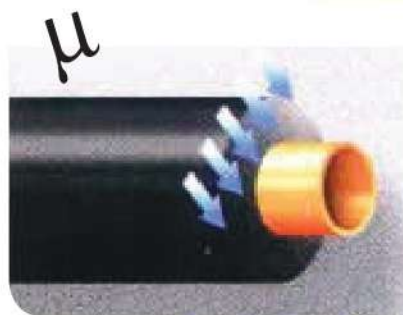
■ Our Competitive Advantages

- * Wide range of tube and sheet without and with self adhesive & aluminum foil available.
- * Light wight and flexible for easy and speedy installation with low maintenance resulting in time and cost savings.
- * CFC and HCFC free with ozone depletion potential of zero.
- * Non-corrosive, smoke and fire rated material.
- * Low thermal conductivity and high μ factor for effective control of condensation and insulating against heat loss and heat gain.
- * International Approval – Provides Assurance to owners on the Quality Consistency of SRP Flex products.



Low flame spread

When fire tested SRP Flex ,it does not generate flaming droplets, and has a low fire propagation index, these combined meet the fire performance requirement of class "O" as defined in Building Regulations. Further guarantee is given by supervision contracts with independent Saudi & European laboratories.



High water vapour diffusion resistance

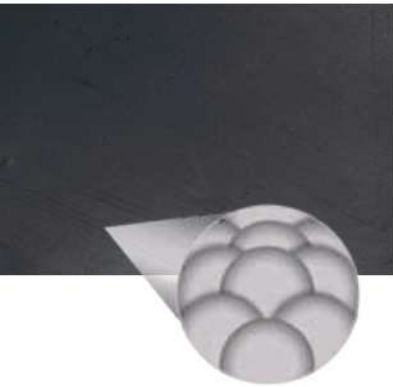
SRP Flex closed cell elastomeric insulation has a high water vapour diffusion resistance factor μ , that minimizes water vapour penetration, giving excellent long term performance.



Very low thermal conductivity

SRP Flex thermal conductivity is λ 0°C= 0.0337W/(m.k). the thermal conductivity coefficient is the most important factor in calculation focused on energy saving.

■ Technical Specification



■ Closed Cell Products

Thermal insulating closed cell products have many advantages over the traditional open cell and products made of wool or fiberglass.

- They have a better thermal conductivity, because the air inside the closed cells has a lower mobility than that produced in open cells therefore the convective component of heat exchange is considerably lower.

Vapour diffusion into the insulation is much lower, thus the thermal conductivity will be guaranteed for longer, even without using protective coatings.

- The mechanical properties are better.
- They promote a natural inhibition of bacterial growth, because bacteria cannot spread within the structure.



■ Resistant to water vapour diffusion (μ Factor)

Our materials are resistant to water vapour diffusion, the higher the resistance to the penetration of water vapour, (denoted by μ (μ)), the greater the consistency of performance over a period of time. This benefit is significant when insulating cold items, where insulation thicknesses are chosen so as to achieve a surface temperature above the ambient dewpoint. Ambient humidity will try to breach the insulation in order to achieve equilibrium conditions. Because the thermal conductivity of water is 0.58 W/ (mk), and therefore about 16 times higher than our insulation, any absorption of water vapour could reduce the insulation efficiency. The formation of condensation on the surface of tubing and ducting is the main cause of corrosion beneath insulation which quickly leads to damage of pipes and ducts.



■ Non-toxic products

Many insulation materials are porous or fibrous. In these types of materials the presence of moisture and organic matter allow the growth of bacteria, mould and fungi. Our products are resistant to this and thus contribute to the quality of the air that we breathe. We do our best to ensure that our products do not emit VOCs (volatile organic compounds) to further protect air quality by changing the ingredients and production process and ensuring that the products are from certified supplies. Laboratories. This prestigious qualification in the "GREENGUARD for children & Schools" programme ensures that the product does not emit toxic substances. In Europe there is a similar certificate from the German institute EPA which has approved our product as completely harmless with regard to the emission of air-borne substances, Elastomeric insulation is not made of fibrous material, and does not release harmful particles into the air. This, therefore, is regarded as an ideal product for use in public places such as schools and hospitals. It is also used in clean rooms; for the production of microchips where the minimum of dust and the absence of pollutants are a necessity for efficient production processes.



■ Fire Behaviour

All our products are certified and supervised at major international laboratories which guarantee that they are self-extinguishing in case of fire. Years of experience and international presence have allowed us to surpass even the strictest standards: BS 476, DIN 4102, Euro class, Italian Class 1, Spanish M1, French NF-FEU, American ASTM and these are just some of over many certifications that our materials have achieved.

■ TECHNICAL DATA

Brief description:

Highly-flexible, closed-cell insulation material with high water vapor diffusion resistance and low thermal conductivity.

Material:

Elastomeric foam based on synthetic rubber (NBR) with density between 50 - 70 Kg/m³.

self – adhesive coating:

Pressure-sensitive adhesive coating on modified acrylate basis. Covered with polyethylene foil

Applications:

insulation / protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) of air-conditioning/ refrigeration and process equipment to prevent condensation and save energy

Property	Value / Assessment	Tested acc. To
Temperature range Max. line temperature Min. line temperature Our customer service center should be consulted for applications with temperatures below – 50° C.	+ 105° C (flat surface and tape + 85° C) - 50° C (200° C)	DIN EN 14706 : 2005 (E)
Thermal conductivity (w/(m-k) at 24[°C] at 40[°C]	0.033 0.034	ASTM C 518 : 2010 ASTM C 518 : 2010
Water vapour diffusion resistance factor μ .	> 7300	BS EN 12086 : 1997
Water vapor permeance (perms)	0	ASTM E96
Water absorption (% by volume)	0.06	ASTM C 209 : 1998
Reaction to fire: 1. Building material class ** -2 Practical fire behavior	Class O Low flammability, self-extinguishing, does not drip, does not spread flames; class 1	BS 476 part 7&6 ASTM E84
Smoke ad toxicity	Passed	IMO MSC 61(67)
Acoustic insulation	Reduction of structure – borne sound transmission; insulation effect up to 28 dB (A)	DIN52219 DIN EN ISO 3822-1
Compression set	31.23% (for 25 mm) 29.83% (for 32 mm)	ASTM D 3574
Resistance To Fungi	Excellent	ASTM G 21 : 2009
Resistance To bacteria	Excellent	ISO 22196 : 2007
Emission (VOC level)	< 6 μ g/m ² /hr	ASTM D5116
Chemical resistance	Very good	ASTM C871
Environment friendly Ozone resistance Ozone Depletion potential Global warming potential CFC & HCFC, dust, fibres	Excellent 0 < 5 Free	
Storage life Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) And ambient temperature (0°C – 35°C)	1 year for self-adhesive sheet/rolls, self-adhesive tapes	

* Further documents such as test certificate or approvals can be requested from the manufacturer.

** The building materials classification is valid on metal or solid, mineral surfaces.

SRP FLEX® RUBBER INSULATION TUBES

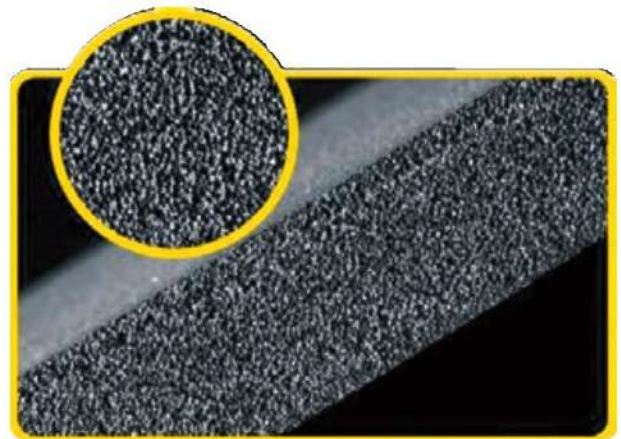
Diameter (inch)	Diameter (mm)	Pcs./Box	6 mm (1/4")	Pcs./box	9 mm (3/8")	Pcs./box	13 mm (1/2")	Pcs./box	19 mm (3/4")	Pcs./box	25 mm (1")	Pcs./box	32 mm (1-1/4")
1/4"	6	180	SF-T-0606	168	SF-T-0906	90	SF-T-1306	50	SF-T-1906	35	SF-T-2506	30	SF-T-3206
3/8"	9	170	SF-T-0609	130	SF-T-0909	80	SF-T-1309	40	SF-T-1909	25	SF-T-2509	25	SF-T-3209
1/2"	13	150	SF-T-0613	115	SF-T-0913	65	SF-T-1313	40	SF-T-1913	25	SF-T-2513	20	SF-T-3213
5/8"	16	120	SF-T-0616	90	SF-T-0916	60	SF-T-1316	35	SF-T-1916	25	SF-T-2516	20	SF-T-3216
3/4"	19	100	SF-T-0619	76	SF-T-0919	45	SF-T-1319	30	SF-T-1919	20	SF-T-2519	15	SF-T-3219
7/8"	22	90	SF-T-0622	70	SF-T-0922	40	SF-T-1322	30	SF-T-1922	20	SF-T-2522	15	SF-T-3222
1"	25	80	SF-T-0625	55	SF-T-0925	40	SF-T-1325	25	SF-T-1925	20	SF-T-2525	15	SF-T-3225
1-1/8"	28	70	SF-T-0628	55	SF-T-0928	36	SF-T-1328	25	SF-T-1928	18	SF-T-2528		
1-1/4"	32	65	SF-T-0632	40	SF-T-0932	30	SF-T-1332	20	SF-T-1932	15	SF-T-2532		
1-3/8"	35	60	SF-T-0635	36	SF-T-0935	30	SF-T-1335	20	SF-T-1935	15	SF-T-2535		
1-1/2"	38			36	SF-T-0938	25	SF-T-1338	17	SF-T-1938	12	SF-T-2538		
1-5/8"	42			30	SF-T-0942	25	SF-T-1342	17	SF-T-1942	12	SF-T-2542		
1-7/8"	48			25	SF-T-0948	20	SF-T-1348	15	SF-T-1948	10	SF-T-2548		
2"	51			25	SF-T-0951	20	SF-T-1351	15	SF-T-1951	9	SF-T-2551		
2-1/8"	54			25	SF-T-0954	20	SF-T-1354	15	SF-T-1954	9	SF-T-2554		
2-3/8"	60			20	SF-T-0960	18	SF-T-1360	12	SF-T-1960	9	SF-T-2560		
2-5/8"	67					15	SF-T-1367	10	SF-T-1967	8	SF-T-2567		
2-7/8"	73					15	SF-T-1373	10	SF-T-1973	6	SF-T-2573		
3"	76					12	SF-T-1376	10	SF-T-1976	6	SF-T-2576		
3-1/8"	79					12	SF-T-1379	10	SF-T-1979	6	SF-T-2579		
3-1/2"	89					10	SF-T-1389	8	SF-T-1989	6	SF-T-2589		

Tube Length : 1.83 m (6ft)

Tolerance : ±1-1.5 mm (thickness); ±0.03 m (length)

SRP FLEX® RUBBER INSULATION ROLLS

Thickness (inch)	Thickness (mm)	Width x Length	Type
1/4"	6	1 x 30	SF-R-1-x30
3/8"	9	1 x 20	SF-R-1-x20
1/2"	13	1 x 14	SF-R-1-x14
5/8"	16	1 x 12	SF-R-1-x12
3/4"	19	1 x 10	SF-R-1-x10
1"	25	1 x 8	SF-R-1-x08
1-1/4"	32	1 x 6	SF-R-1-x06
1-1/2"	40	1 x 4	SF-R-1-x04



Tolerance (rolls) : ± 1 - 2 mm (thickness); ±0.03 m (length)

Tolerance (sheets) : ± 1 - 2 mm (thickness); ±0.01 m (length)

SRP FLEX® ACCESSORIES

Name	Unit
Foam tape 3 mm 1" width	Roll
Foam tape 3 mm 2" width	Roll
PVC tape 60 ft	Roll
SRP Flex Glue 2.5 l	Litre
SRP Flex UV paint	Gallon

SRP FLEX® RUBBER INSULATION SHEET

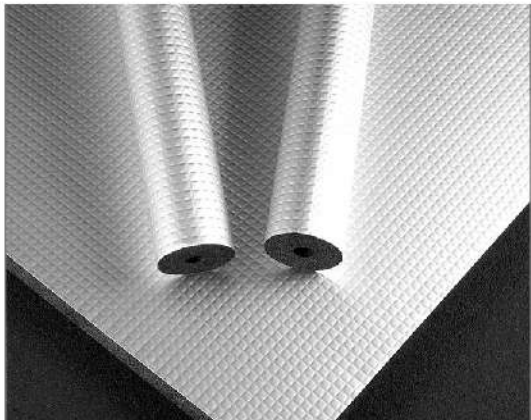
Standard flat sizes						
Nominal Thickness		Sizes		Sheets per carton	Total area per Carton	
mm	inch	m	feet		m	feet
6	1/4	0.914 x 1.22	3 x 4	40	44.60	480
9	3/2	0.914 x 1.22	3 x 4	26	28.30	312
13	1/2	0.914 x 1.22	3 x 4	20	17.84	240
15	5/8	0.914 x 1.22	3 x 4	16	15.61	192
19	3/4	0.914 x 1.22	3 x 4	14	11.51	168
25	1	0.914 x 1.22	3 x 4	10	11.15	120
31	1 1/4	0.914 x 1.22	3 x 4	8	9.76	104
38	1 1/2	0.914 x 1.22	3 x 4	7	8.54	91

standard insulation size of foam sheet.

Std. carton size: 1310mm x 990 mm x 320 mm (51 in x 39 in x 12.5 in).

Quantities of foam tube and sheet in container & trailer.

Foam tube and sheet in container & trailer						
Description	Dimension	UOM	Quantity 1 container			Trailer
			20 feet	40 feet	40 feet HC	40 feet
Foam Tube	6 ft. length	No. of boxes	110	238	265	300
Foam sheet	3' x 4'	No. of boxes	104	208	250	-
	3' x 30' x 9mm	No. of rolls	66	132	-	-
	3' x 30' x 13mm	No. of rolls	42	84	-	-
	3' x 30' x 19mm	No. of rolls	36	72	-	-
	3' x 30' x 22mm	No. of rolls	32	64	-	-
	3' x 30' x 25mm	No. of rolls	30	60	-	-





■ SRP FLEX[®] RUBBER FOAM CORD

SRP foam Cord is highly flexible closed cell insulation for multi purposes with different sizes from 10mm to 20 mm and as per customers requirements.



■ SRP FLEX[®] MORE PRODUCTS

SHEET ROLLS



FOAM TUBE



SHEET SLAB



Note :

Utmost care has been taken to ensure that all contents of this brochure are accurate. However Saudi Raber Products do not accept responsibilities for any problems, which may arise as a result of errors in this publication.

Therefore, customers should make inquiries into the potential product supplier and convince themselves of the suitability of any products supplied or manufactured by SRP before using them .

CERTIFICATE

Management system as per
ISO 9001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that



Saudi Rubber Products Factory
1st Industrial City, Buraydah, P. O. Box 5033
51422 Al Qassim
Kingdom of Saudi Arabia

applies a management system in line with the above standard for the following scope

Manufacturing and supply of rubber gasket, O rings, lip seal, insulation foam tubing system, foam sheets for air-conditioning and other pipes & fittings seal elements

Certificate Registration No. 44 100 18570016
Audit Report No. 5700 3023

Valid from 2019-05-26
Valid until 2022-05-25
Initial certification 2016



Certification Body
at TÜV NORD CERT GmbH

Dammam, 2019-05-26





This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.



TÜV NORD CERT GmbH

Langemarckstraße 20

45141 Essen

www.tuev-nord-cert.com

AL HOTY-STANGER 	CLIENT: SAUDI RUBBER PRODUCTS FACTORY 52321, Buraidah-Al Qassim, Saudi Arabia	TWG No. : KHSP_L20102 Report No. : X-HSP_L20102-R1-V1 Report Date: 06-08-2020 11:23 AM Invoice No. : Ref. No. :																				
	Test Report																					
Sample No. : KHSP_L20102 Sample Description : Rubber Foam Insulation Tubes Company : SAUDI RUBBER PRODUCTS FACTORY Test Required : Thermal Conductivity (ASTM C177-19) Testing Date : 29-07-2020 Sample Delivered By : Client Project : NA																						
TEST RESULT																						
<table border="1"> <thead> <tr> <th>Test Property</th> <th>Specimen thickness (mm)</th> <th>Mean test temperature (°C)</th> <th>Thermal conductivity (W/m.K)</th> </tr> </thead> <tbody> <tr> <td>Reading 1</td> <td>12.72</td> <td>24</td> <td>0.031</td> </tr> </tbody> </table>			Test Property	Specimen thickness (mm)	Mean test temperature (°C)	Thermal conductivity (W/m.K)	Reading 1	12.72	24	0.031												
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Sample No. : KHSP_L2012A Sample Description : Rubber Foam Insulation Tube Company : SAUDI RUBBER PRODUCTS FACTORY Test Required : Density (ASTM D3975-20) Testing Date : 02-08-2020 Sample Delivered By : Client Project : NA																																
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Bellaterra: 22nd February, 2021

File number: **21/23374-335**

Petitioner's reference : **SAUDI RUBBER PRODUCTS FACTORY**
Kingdom of Saudi Arabia
The first Industrial City in Qassim
PO BOX 5033 – Buraidah 51422

TEST REPORT

Date sample received: 2021-02-09

Date test performed: Start: 2021-02-09
End: 2021-02-11

OBJECT OF THE TEST

Determination of the relative linear rate of burning or extent and time of burning according to the ASTM D635 – 18 standard: « Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position1 »

CHARACTERISTICS OF THE SAMPLE

Some polymeric foam material of black colour samples were received from the petitioner, measuring approximately 13 mm thick, and with the following indications according to the petitioner:

Commercial reference: SRP.FLEX

Rubber Insulation foam of NBR PVC "Nitrile Butadien Rubber with a density of 0.055 g/cm³, superficial density of 55 kg/m², black colour, and Closed Cell Foam

Final Use Condition: For Air Conditioning Systems and Building Isolation

Manufacturer: SAUDI RUBBER PRODUCTS FACTORY. Address: Qassim 1st Industrial city Burydah Kingdom of Saudi Arabia.



Photography 1: Sample received

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TEST REQUESTED

Horizontal burning test applicable for the determination the relative linear rate of burning or extent and time of burning, according to ASTM D635-18

RESULTS

Conditioning of the samples was proceeded according to paragraph 8 of this standard and in accordance with the following procedure:

Two sets of specimens at (23±2)°C and (50±5)% relative humidity for a minimum of 48 hours.

HORIZONTAL BURNING TEST

Environmental conditions: 22.1 °C and 46 %

Samples	I	II	III	IV	V	VI	VII	VIII	IX	X
a) Duration of the inflammation between both reference marks (in sec)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)
b) Distance burned from the 1st measurement mark (in mm)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)
c) Burn rate (in mm/min)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)	- (*)

(*) The flame front does not reach the 25 mm reference mark. In this case, according to paragraph 11.1.9 of the test standard, the elapsed time and burned length are not reported.



Digitally signed by
Salvador Suñol Gálvez



Digitally signed by
Marta Feliu Torné

Laboratory Manager
LGAI Technological Center S.A. (APPLUS)

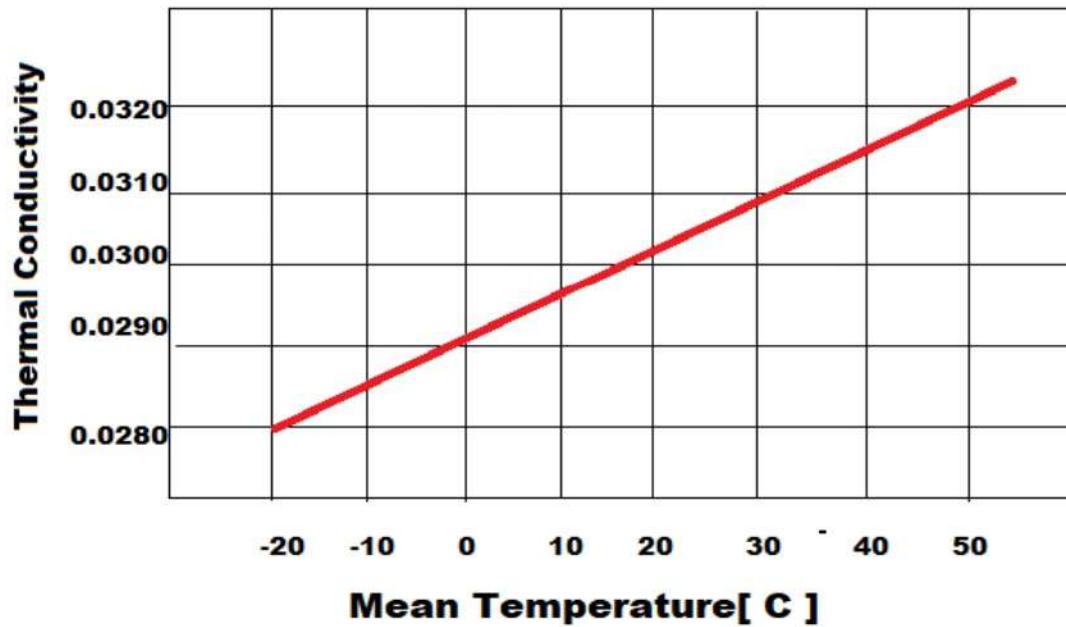
Technician Responsible of Reaction to Fire
LGAI Technological Center S.A. (APPUS)

The results refer exclusively to the samples tested at the time and under the conditions indicated.

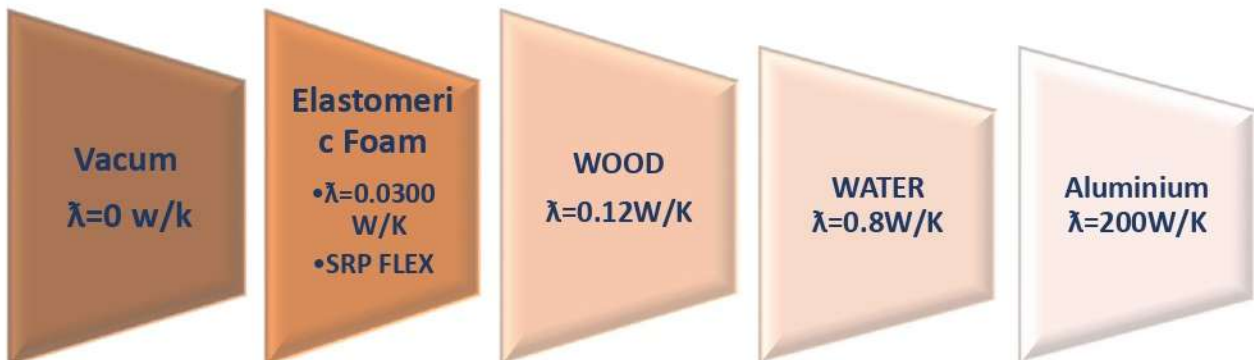
Applus+ guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with. In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+, at the following address: satisfaccion.cliente@applus.com

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