



THERMAL * ACOUSTIC * SAFETY

BLANKET INSULATION



Removable Reusable Blanket Insulation

Energy savings | *Noise reduction* | *Safety solutions*

THERMAL  BLANKET

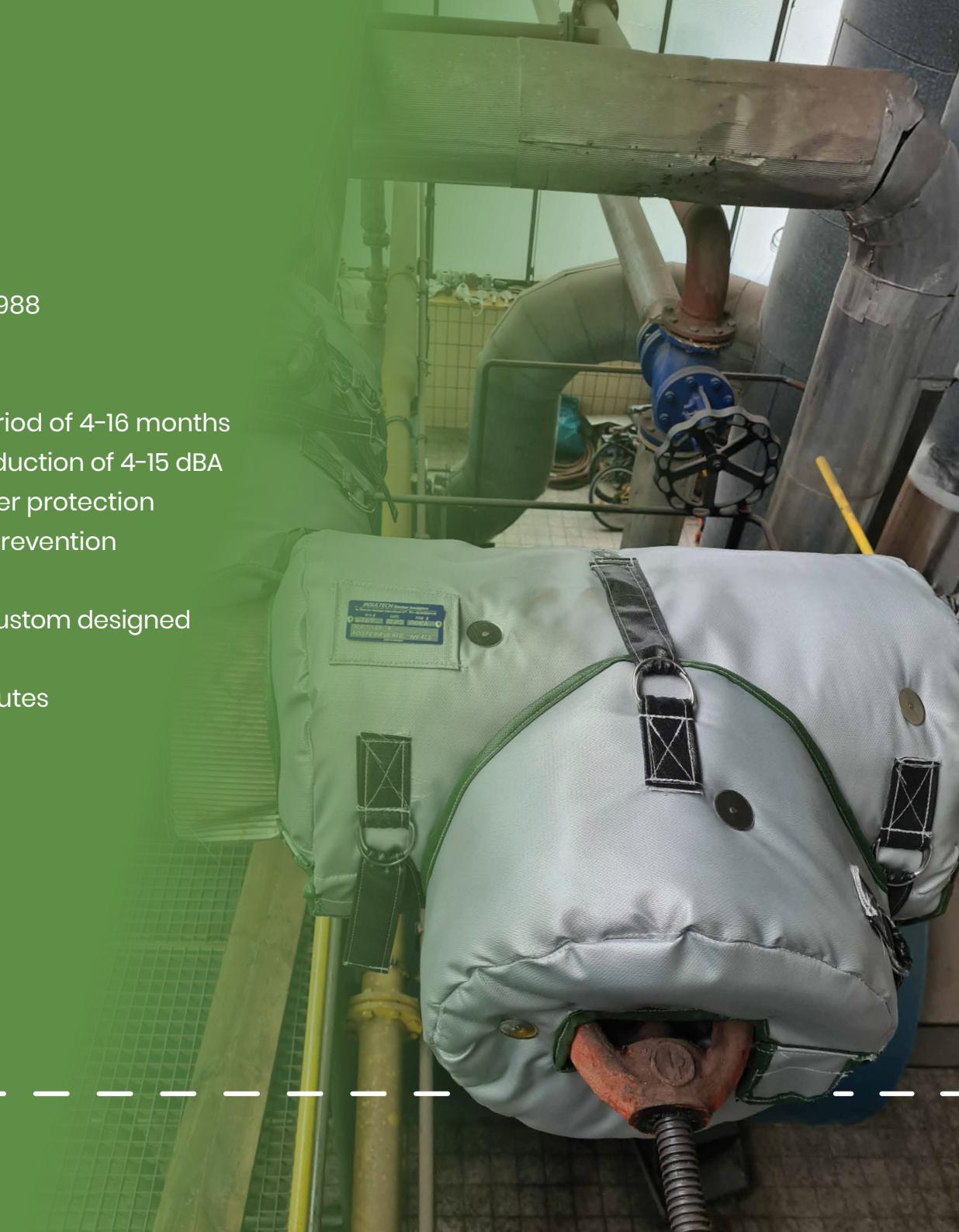
ACOUSTIC  BLANKET

SAFETY  BLANKET

Features & benefits

TAS solutions offer:

- Proven Solutions with a history of success since 1988
- Best Quality-Price ratio
- Removable and Reusable
- Thermal Blankets offer an attractive payback period of 4-16 months
- Acoustic Blankets offer a highly effective noise reduction of 4-15 dBA
- Rain Shield enclosures for washdown and weather protection
- Safety Spray Shield enclosures for process leak prevention
- Double Sewn and Binded Edges
- CAD designed for exact fit & finish, each piece is custom designed
- Multiple piece design for ease of installation
- User-friendly installation and removal within minutes
- Integral fasteners
- Thermal efficiency of up to 95%
- Expected Lifetime 15 years
- Warranty



Energy savings | Noise reduction | Safety solutions

THERMAL BLANKET INSULATION

- Steam Systems
- Chilled Water Applications
- Process Industry
- Gas Transmission
- Plastic Industry
- Food Processing/Sanitary
- Refinery/Chemical Industry
- Paper & Pulp Mills
- Tire Manufacturing
- Laundry Services
- Marine Applications
- Engine Exhaust

ACOUSTIC BLANKET INSULATION

- Liquid Chillers
- Fans, Blowers
- Compressors
- Power Generation

SAFETY BLANKET INSULATION

- Process Industry – washdown conditions
- Fire Protection for sensitive equipment



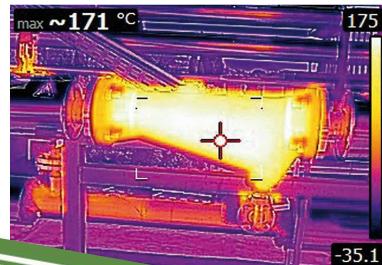


Energy Surveys

- Energy surveys are typically free of charge, depending on project
- Will show the opportunity for energy savings and payback period
- TAS offers heat loss calculation to define a specified scope of work and measured performance on steam and process systems
- Actual savings are within a 5% error rate

See the ENERGY SURVEY SAMPLE on the last page.

TAS / THERMAL * ACOUSTIC * SAFETY BLANKET INSULATION						
Energy Survey Log Sheet						
Presented By	DISER / REC. NAME	Survey Date	10/10/16	Latitude	✓	Ver. No.
Presenter Contact	FILL - IN	Fuel Cost		Man Lift	✓	
Phone / E Mail	"	Steam Cost	\$12.30/mm	Union Install	✓	
Project Name	CUSTOMER- END USER	Blanket Design	LT6503S	Safety Training	✓	
Project Contact	FILL - IN	Factor Type	NS - S6B	FOB Delivered	✓	
Phone / E Mail	"	Thickness	1" & 1/2"	Flange Dic. Reference		
Qty	Tag #	Description (Size, Rating, Type, Mfr)	Surf Temp	Ambient Temp	Oper. Hours	1250/1500
1/1	"	Boiler Room - Boiler # 1/2 x 3"	924	12M		3 7/8" Dia. 4 1/8" Dia.
1/1	6" 300# STOP - CK VALVE	358		4 1/4" Dia.	1"	4 7/8" Dia.
1/1	10" 600# DIF. REVEVER	358		5" Dia.	1 1/2"	6 1/4" Dia.
1/1	2" 300# STOP - CK VALVE	349		6" Dia.	2 5/8"	6 1/2" Dia.
1/1	6" 300# ORIFICE FLANGE	344		7 1/2" Dia.	3"	8 1/4" Dia.
1/1	17" x 21" - MANWAY	361		9" Dia.	4"	10" Dia.
1/1	6" 300# SEV - FLANGE CAP	323		10" Dia.	5"	12" Dia.
1/1	52" OA. STEAM DRAIN	367		11" Dia.	6"	12 1/2" Dia.
1/1	17" x 21" - MANWAY	352		13 1/2" Dia.	8"	15" Dia.
1/1	Level Gauge - LT60 P/N 6 *			16" Dia.	10"	17 1/2" Dia.
1/1	1" THRO. T/P END CAP	349	89	16" Dia.	10"	17 1/2" Dia.
1/1	1" THRO. PZ JUN/PZ 1/2" END CAP 343			16" Dia.	12"	20 1/2" Dia.
1/1	1" THRO. PZ JUN/PZ	335		21" Dia.	14"	21" Dia.
1/1	LEVER GAUGE	351		23 1/2" Dia.	16"	25 1/2" Dia.
1/1	1" THRO. PLUN/PZ END CAP	340		25" Dia.	18"	28" Dia.
1/1	LT60	345		27 1/2" Dia.	20"	30 1/2" Dia.
1/1	Sum. of BOILERS *			27 1/2" Dia.	14"	30" Dia.
1/1	44" OA. - PLATE HEAT	351	80			
1/1	17" x 21" - MANWAY	350	"			
1/1	Main Steam Header *					
1/1	10" 300# BLIND FLANGE	349	93	10" 300# Flange Cap		
1/1	6" 250# GATE VALVE	345		6" 300# Stop Check Valve		
1/1	4" 300# GATE VALVE	346		6" 250# Gate Valve (Rec. Box.)		
1/1	6" 300# GV BONNET	"		6" 300# Orifice Flange		
1/1	8" 250# GV BONNET	"		6" 250# GV Bonnet (Rec. Box.)		
1/1	3" 250# GV BONNET	"		Manway 17" x 21"		
1/1	2" IPS - DRAI LEG	335		Steam Drain 52" Dia x 10' Dp.		
1/1	3/4" THRO. GV ISRA VAL			Drip Leg 4" IPS x 16"		
1/1	1/4" THRO. GV ISRA VAL	251		7" x 10' HPT Level Gauge		
1/1	Steam Supply to DA TANK *			14" THRO. GV ISRA VAL		
1/1	3" 250# Gate Valve	349	112°F	14" THRO. GV ISRA VAL		
1/1	3" 250# MUELLER STRAINTER 349	"		Globe Valve Bottom on Control		
1/1	2"			1250, 1500 & 2500 (Rec. Box.)		
* Show Location * Take a System						



Measurements on site

- Depending on the project, TAS staff may do a site visit to obtain necessary measurements for design, which is necessary to achieve a perfect fit of the blanket insulations
- Typically it is included in the pricing



Installation

- TAS offers installation services for large or complicated projects
- Typically it will be included in the turn-key offering
- TAS staff is well trained, experienced and fully insured



M & V Reporting

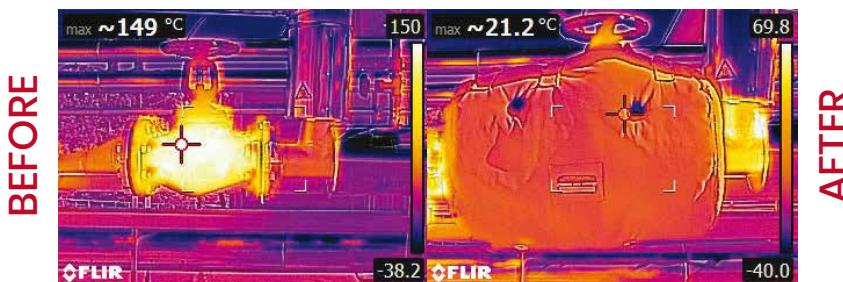
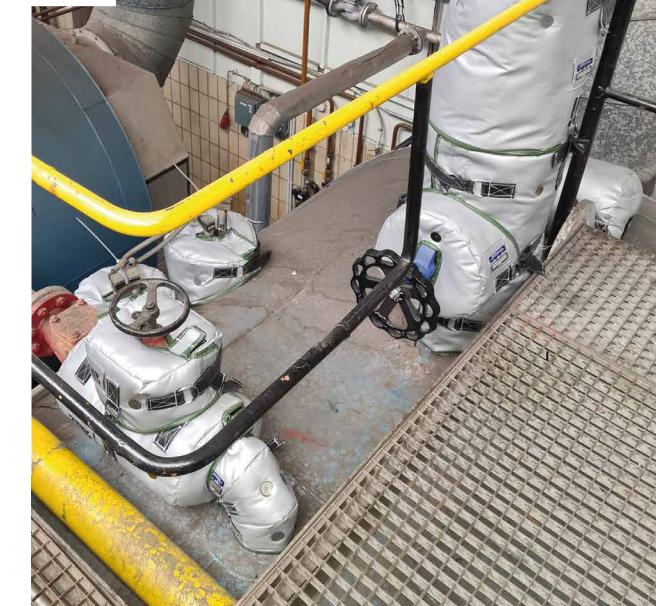
- Measure and verification reporting using picture-on-picture thermography
- It is not a standard service, but can be added to the offering
- Define Savings within the 5% error rate
- Sound Testing report pre and post installation



THERMAL BLANKET INSULATION

TAS Thermal Blanket Solutions for Steam Systems

- Quick payback period. The investment pays for itself in 4-16 months.
- Instant energy savings, lower emissions, lower ambient temperature.
- Improve safety conditions by insulating hot surfaces.
- Steam valves, boiler doors, manways, flanges, expansion joints, flowmeters, piping and much more.
- Turnkey project done by TAS team.



Thermal Blanket Solutions for Boiler Doors and Steam Traps

- Captures 75% of all radiant heat loss
- Cost-effective solution
- Ideal for eliminating safety concerns with hot surfaces
- Standard and custom offering
- Can be sold as standard insulation for all steam traps
- Custom design for boiler doors



Thermal Blanket Solutions for the Process Applications

TAS offers blanket insulation for process applications that require Non-Wicking & Non-Porous solutions.

- Industries: Pharmaceutical, Refineries, Chemical Processing, Distilleries, Industrial, Manufacturing
- Chemical and acidic resistant materials
- Non-Porous & Non-Wicking
- Are designed for outdoor conditions, weather resistant materials



Energy savings

TAS

Thermal Blanket Solutions for the Plastics Industry

- Significantly reduces heat loss and surface temperature for plastics extrusion, injection molding and blow molding equipment
- Average payback period is a few months!
- Protects workers from hot surfaces
- Reduces ambient temperature
- High Quality, long lifetime materials



Thermal Blanket Solutions for the Food Processing/Sanitary

TAS Blankets will boost steam system thermal efficiency, which improves steam quality and the overall manufacturing process.

- Approved materials (sanitary wash-down)
- PTFE jacketing fabrics
- Drastically lower ambient temperatures
- Instant energy savings
- Improved safety conditions



THERMAL BLANKET INSULATION

Thermal Blanket Solutions for Refinery Applications, Chemical Process

- Oil resistant jacketing & Non-Flammable
- Specifications up to 1000 °C
- Improves steam quality
- Improves steam tracing performance,
complex surfaces otherwise left untreated



Thermal Blanket Solutions for Tire Manufacturing

TAS Blanket Insulations offer solutions for tire presses and steam systems.

- Saves energy, lower ambient temperature
- Improved cure times
- Covers complex surfaces
- Non-flammable
- Durable materials, double sewn and binded edges



ACOUSTIC BLANKET INSULATION

TAS Acoustic Blanket Solutions

TAS Acoustic Blanket Insulation offers a noise reduction solution on complex surfaces.

- Applications Include: compressors, pumps, fan housing, blowers, ducting, process piping, valves, motors.
- Treats the sound problem at the source with a direct surface treatment, wrapping critical complex components that would otherwise be left untreated.
- Offer Standard & Custom designed packages.
- Will generate up to 16 decibels of reduction, depending on the application, nature of the field condition and sound profile of the source noise.



TAS

BLANKET DESIGN FEATURES



1. Silicone coated fiberglass cloth
2. PTFE coated fiberglass cloth
3. ATEX approved materials
4. PTFE fabric for food processing, chemical resistance and high humidity environment
5. Stainless steel wiretwist
6. Metal embossed ID tag for each piece



Blanket Design Features

TAS

ENERGY SURVEY SAMPLE

Presented By: TAS Blanket Insulation Kft.
Phone/Email: +36 30 558 4126
Project Name: Sample Steam System
Project Contact:
Phone/Email:
TAS Project #: 25565

Survey Date: 1/30/2025
Steam Cost: 50€/ton of steam
Product Specification: LT232C-SS
Insulation Thickness: 40mm
Fastener Type: Velcro® Flaps/Dbl D Ring STD. Straps
Proposal Date:

QTY	DESCRIPTION/LOCATION	AMB. TEMP	MEAS. SURFACE TEMP	OPERATING HOURS	BARE HEAT LOSS (W/HR)	BARE OPER. COST (€/YEAR)	INSULATED HEAT LOSS (W/HR)	INSULATED OPER. COST (€/YEAR)
BOILER ROOM - BLR. 1, 2 & 3								
3	DN100 Safety Relief Valve	30	210	8760	2,800	€2,001.69	236	€168.83
3	DN150 Globe Valve	30	210	8760	8,411	€6,013.62	709	€507.20
3	DN150 Orifice Flange	30	210	8760	2,640	€1,887.34	223	€159.18
6	DN40 Globe Valve	30	210	8760	5,049	€3,609.88	613	€438.22
18	DN65 Globe Valve	30	210	8760	21,320	€15,243.63	1,798	€1,285.68
3	DN65 Strainer	30	210	8760	3,553	€2,540.61	300	€214.28
3	DN65 Control Valve	30	210	8760	4,086	€2,921.70	345	€246.42
72	DN25 Globe Valve	30	180	8760	44,507	€31,821.73	5,080	€3,632.40
12	DN25 Control Valve	30	180	8760	8,531	€6,099.16	974	€696.21
3	Boiler Door Ø 2.6 m x 12 cm	30	210	8760	81,262	€58,100.32	27,629	€19,753.89
STEAM HEADERS								
18	DN150 Globe Valve	25	190	8760	46,260	€33,074.92	3,660	€2,616.52
6	DN50 Globe Valve	25	190	8760	4,848	€3,465.89	383	€274.18
9	DN25 Globe Valve	25	180	8760	5,749	€4,110.31	656	€469.18
3	DN150 Control Valve	25	190	8760	8,867	€6,339.36	701	€501.50
6	DN15 Ball Valve	25	180	8760	2,936	€2,099.13	335	€239.61
3	DN15 Strainer	25	180	8760	1,659	€1,185.95	189	€135.37
3	DN150 Safety Relief Valve	25	190	8760	3,855	€2,756.24	305	€218.04
3	DN50 Orifice Flange	25	190	8760	857	€612.70	68	€48.47
3	DN200 Globe Valve	25	190	8760	11,296	€8,076.62	894	€638.93
3	DN100 Globe Valve	25	190	8760	5,133	€3,669.76	406	€290.31
6	DN150 Orifice Flange	25	190	8760	4,839	€3,460.13	383	€273.73

ENERGY SURVEY SUMMARY SAMPLE

Total Heat loss - BARE (kWh/Year):	2,439,287.34
Total Heat loss - w/TAS Blanket Insulation (kWh/Year), only	401,970.33
Total Heat loss SAVED - w/TAS Blanket Insulation (kWh/Year):	2,037,317.01
Total Annual Operating (Steam Cost) - BARE	€199,090.70
Total Annual Operating (Steam Cost) - w/TAS Blanket Insulation, only	€32,808.17
Annual (Steam Cost) SAVINGS w/TAS Blanket Insulation	€166,282.53
*Lifetime (Steam Cost) SAVINGS (15 Yrs)	€2,444,629.32
Total Cost (Thermal Blanket System)	€49,608.63
Total Cost	€49,608.63
Payback (Months)	5
ROI	335.18%
Number of Fittings	189

SUSTAINABILITY MEASURES SAMPLE

EMISSIONS SAVINGS #1 NATURAL GAS (kWh):	2,037,317.01
CO ₂ (tons)	407.03
NO _x (kg)	473.10
VOC (kg)	16.96
EMISSIONS SAVINGS #2 FUEL OIL (kWh):	2,037,317.01
CO ₂ (tons)	620.90
NO _x (kg)	1,239.24
VOC (kg)	36.21
CUBIC METER OF WATER SAVED (m³/YEAR)	3,157.76

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