



**YOU SHIN DAN YEOL CO.,LTD.**

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**1st Ulsan Factory**

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Republic of Korea  
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**1st Yangsan Factory**

72, Sojugongdan 3-gil, Yangsan-si, Gyeongsangnam-do,  
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# YOU SHIN INSULATION

## Product Introduction

40th Anniversary

Best Quality  
Best Technical Ability



**YOU SHIN DAN YEOL CO.,LTD.**



유신단열(주)은 전 임직원의  
 “화합”을 기반으로 고객과 함께  
 풍요로운 미래를 만들어 갑니다.  
 보온단열 업계에서  
 선도적 “기술력”을 갖춘 기업으로  
 “고객 만족”을 통해  
 신뢰받는 기업이 되고자 합니다.

We, You Shin Dan Yeol Co.,LTD.,  
 are committed to creating prosperous  
 future with our customers through  
 the “Harmony” of all employees.  
 Our “the most advanced technology”  
 in the world in the insulation industry,  
 is sustainable development through  
 “Customer Satisfaction.”

# 연혁 | HISTORY

## 1980

1980년 07월 / July. 1980  
유신단열 설립

The You Shin Dan Yeol Co.,LTD. is established

## 1990

1993년 11월 / Nov. 1993  
선박 LNG Ship GTT 인증 획득 (NO.96 Type)

Certified GTT NO96 Type [France, Gaz Transport Certificate]  
- Insulation Materials for Cargo Containment  
- ITEM: Fiber Glass wool, Fiber Glass Cloth, Flexible insulation

1995년 05월 / May. 1995  
삼성중공업 협력업체 등록

Starting Partnership with Samsung Heavy Industries

1997년 10월 / Oct. 1997  
선박LNG Ship GTT 인증 획득 (MarkIII Type)

Certified GTT MARKIII Type [France, Gaz Transport Certificate]  
- Insulation Materials for Cargo Containment  
- ITEM: Fiber Glass wool, Fiber Glass Cloth



## 2000

2007년 05월 / May. 2007  
울산 제2공장 준공

Completion of Ulsan 2<sup>nd</sup> Factory

2007년 03월 / Mar. 2007  
유리섬유단열재 특허 8건 취득

Obtaining 8 patents on Glass Wool Insulation

2006년 01월 / Jan. 2006  
대우조선해양 협력업체 등록

Starting Partnership with Daewoo shipbuilding & Marine Engineering

2002년 05월 / May. 2002  
현대미포조선 협력업체 등록

Starting Partnership with Hyundai Mipo Dockyard

2002년 05월 / May. 2002  
ISO 9001(품질경영시스템)인증 획득

Starting Partnership with Certified ISO 9001

2001년 02월 / Feb. 2001  
현대중공업 협력업체 등록

Starting Partnership with Hyundai Heavy Industries

2000년 08월 / Aug. 2000  
현대삼호중공업 협력업체 등록

Starting Partnership with Hyundai Samho Heavy Industries

2000년 06월 / Jun. 2000  
울산 제1공장 및 목포공장 준공

Completion of Ulsan 1<sup>st</sup> & Mokpo Factory



## 2010

2010년 08월 / Aug. 2010  
선박용 A - 30 & A - 60 class JG CERT 취득/NK

Certified by JG(Japanese Government) & NK(NIPPON KAIJI KYOKAI) for A-60 DECK and Bulkhead

2010년 12월 / Dec. 2010  
고용창출 100대 우수기업 선정

Awarded as excellent company for creating jobs

2012년 04월 / Apr. 2012  
울산 제3공장 준공

Completion of Ulsan 3<sup>rd</sup> Factory

2012년 06월 / Jun. 2012  
본사 사옥 준공

Completion of Busan Head Office Building

2012년 08월 / Aug. 2012  
울산 제4공장 준공

Completion of Ulsan 4<sup>th</sup> Factory



2018년 12월 / Dec. 2018  
현대미포조선 우수협력회사 선정

Selected as Excellent Partner of Hyundai Mipo Dockyard

2017년 12월 / Dec. 2017  
현대중공업 우수협력회사 선정

Selected as Exclent Partner of Hyundai Heavy Industries

2017년 07월 / Jul. 2017  
YS - Hardness 특허 출원

Obtaining the patent on YS-Hardness

2016년 05월 / May. 2016  
양산1공장 준공

Completion of Yangsan 1<sup>st</sup> Factory

2015년 12월 / Dec. 2015  
무재해 100만 시간 달성 표창장 수여(현대중공업)

Awarded as one million hours without disaster from Hyundai Heavy Industries

2014년 10월 / Oct. 2014  
ISO 14001 환경경영시스템 인증 취득

Certified ISO 14001

2014년 05월 / May. 2014  
양산 제2공장 준공


Completion of Yangsan 2<sup>nd</sup> Factory




## 주요제품 | MAJOR PRODUCTS

### ❖ A-Class & Thermal Insulation

#### • Mineral Wool


-  - YS-HARDNESS Board
- YS-HARDNESS Sound-Absorbing Board
- YS-HARDNESS Round Cover
- YS-HARDNESS Elbow
- Board
- Stiffener Mold
- Pipe Cover
- Round Cover
- Bending & Elbow [Long, Short] Cover
- Valve / Flange / Expansion Joint Mat

#### • Glass Wool


-  - Board
- Roll

### ❖ LNG SHIP Insulation

#### • N096

-  - Glass Wool
- Flexible (F&M type)
- Anti-Sticking Film

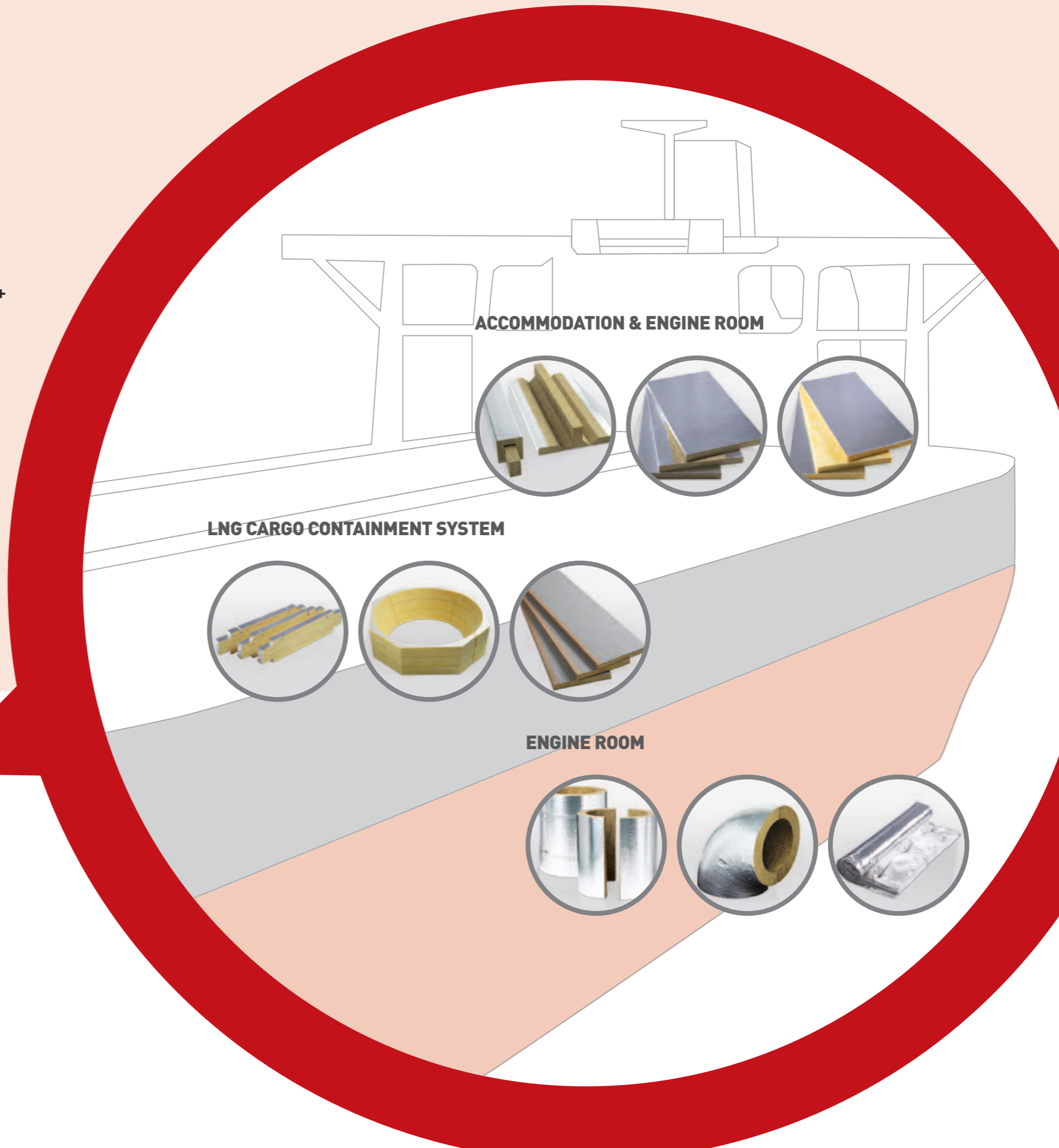
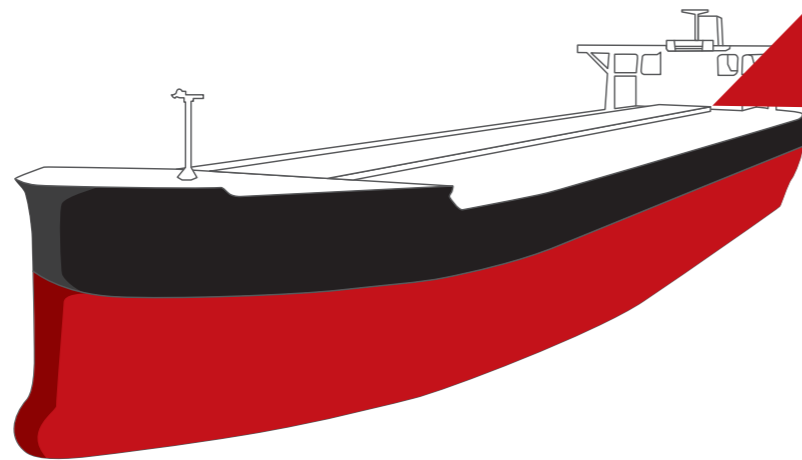
#### • MARKIII / MARKIII Flex / MARKIII Flex+

-  - Glass Wool
- Glass Cloth

#### ❖ Others

-  - Blanket
- Surface materials & Tape
- Insulation Pin
- Solimide
- Ceramic Wool
- Polyethylene & Polyurethane
- Adhesive
- Rigid

Best  
Quality  
Best  
Technical Ability



## YS-HARDNESS BOARD

선박 A-CLASS & Thermal 구역에 함석 작업이 필요 없는, 경제적이며 품질성능이 우수한 제품입니다.

This product is , without galvanized steel sheet, economical and has good quality performance at A-Class & Thermal area in ship.

### 용도 / Applications

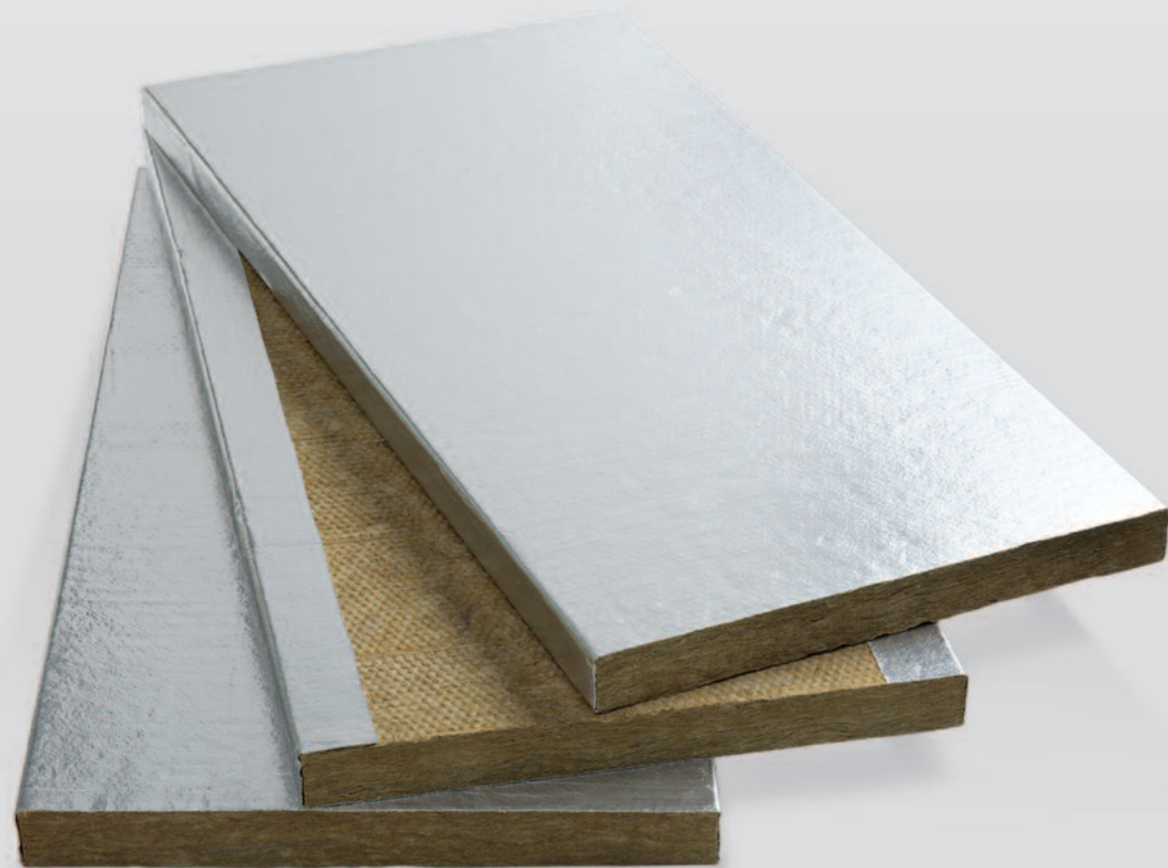
- Vent Trunk (PCTC, A-30/A-60)
- Elevator Trunk
- Escape Trunk
- Passage way (2,300mm below Height, A-60), etc.

### 밀도 / Density

150kg/m<sup>3</sup>

### 효과 / Effect

- Galvanized Steel Sheet 설치 공정 제거 / Skip the Galvanized steel sheet work
- 자재비 및 설치비용 절감 / Reduction of material & installation costs
- 작업성 향상 / Workability Enhancement



## YS-HARDNESS SOUND-ABSORBING BOARD

선박 흡음을 요구하는 구역에 Perforated Sheet 작업이 필요 없는, 경제적이며 흡음성능이 우수한 제품입니다.

This product is , without perforated sheet work, economical and has excellent sound absorption performance at Absorption area in ship.

### 용도 / Applications

Fan Room, Engine Room and others(Wall & Ceiling for Noise Reduction), etc.

### 밀도 / Density

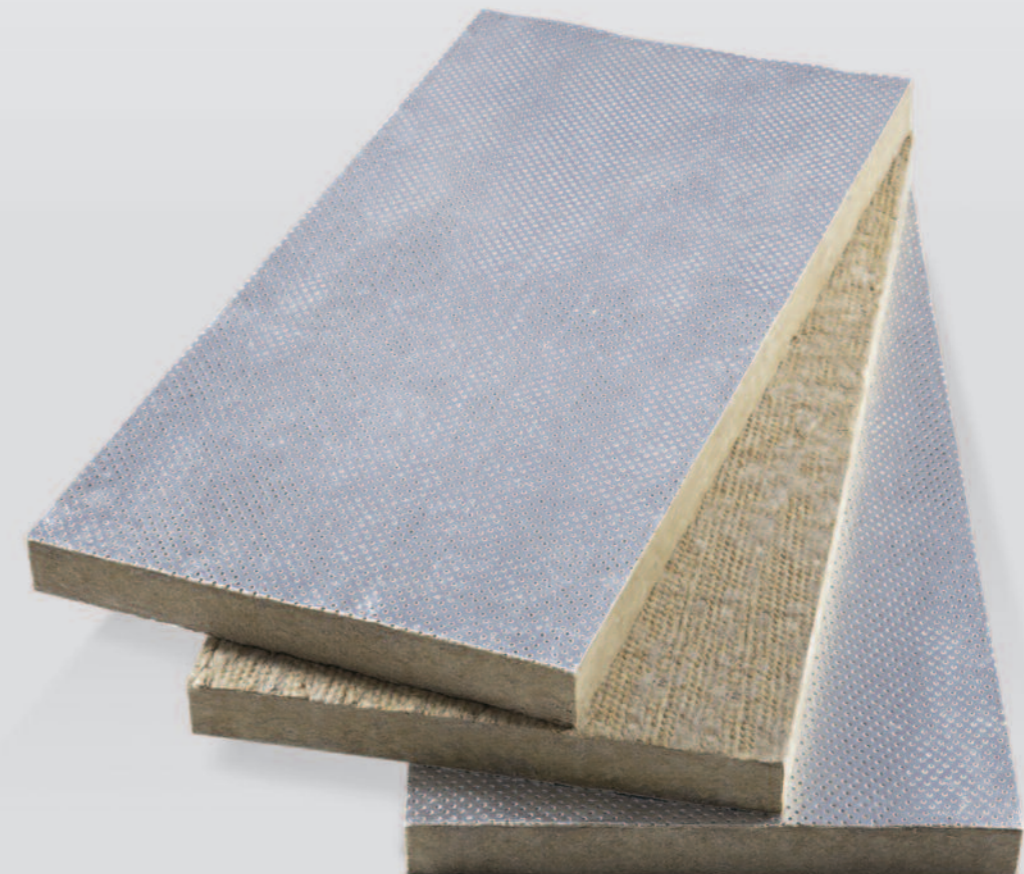
150kg/m<sup>3</sup>

### 효과 / Effect

- Perforated Steel Sheet 설치 공정 제거 / Skip the Perforated sheet work
- 자재비 및 설치비용 절감 / Reduction of material & installation costs
- 작업성 향상 / Workability Enhancement

### 흡음계수 / NRC

KSF 2805 (NRC : according to KSF 2805)



## YS-HARDNESS ROUND COVER

고온 배기관의 기존 보온+함석 대체품으로 단열성, 정밀성 및 작업성을 극대화 시킨 우수한 제품입니다.

This product is, the better replacement for original method "Insulation material + Galvanized steel sheet", also it has better thermal performance, precision and workability.

### 용도 / Applications

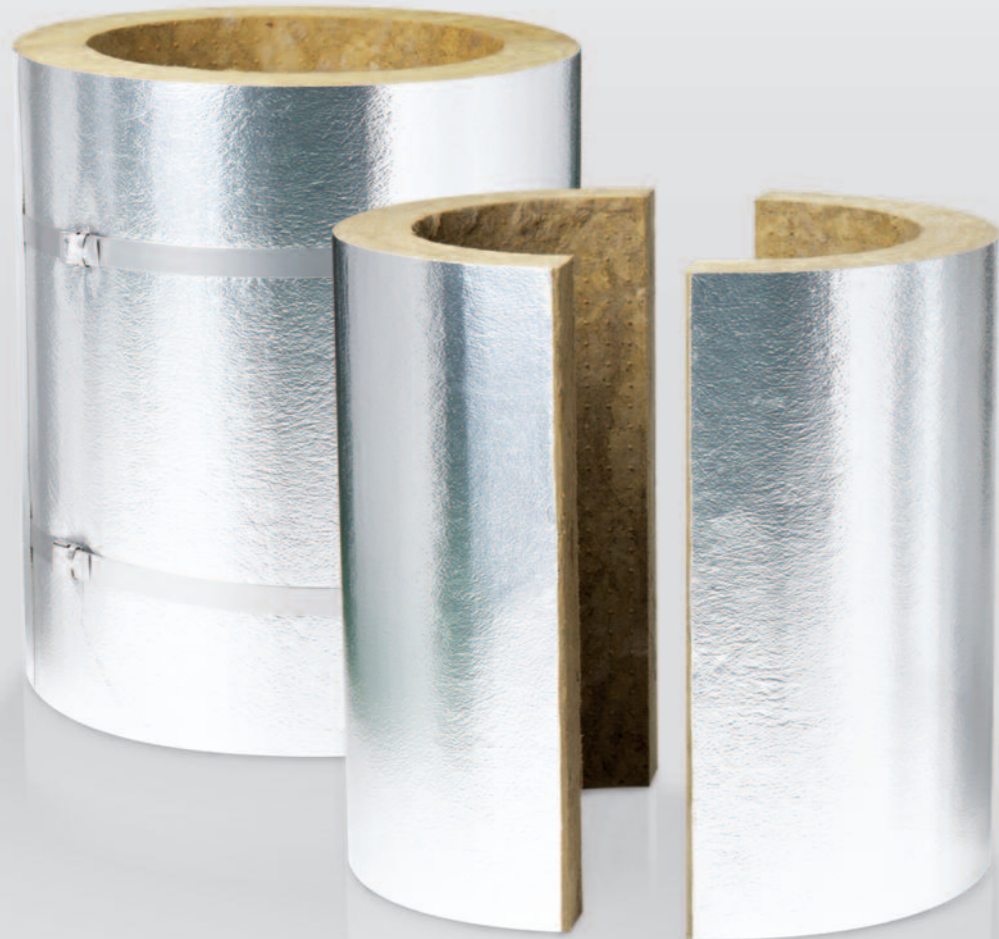
Exhaust Gas Pipe  
(Engineroom, Casing, Funnel)

### 밀도 / Density

150kg/m<sup>3</sup>

### 효과 / Effect

- Galvanized Steel Sheet 설치 제거 / Skip the Galvanized steel sheet work
- 자재비 및 설치비용 절감 / Reduction of material & installation costs
- 기존제품 대비 단열성 향상 / Improved thermal performance over existing products



## YS-HARDNESS ELBOW

고온 배기관의 기존 보온+함석 대체품으로 단열성, 정밀성 및 작업성을 극대화 시킨 우수한 제품입니다.

This product is, the better replacement for original method "Insulation material + Galvanized steel sheet", also it has better thermal performance, precision and workability.

### 용도 / Applications

Exhaust Gas Pipe/  
Elbow / Miter Bending  
(Engineroom, Casing, Funnel)

### 밀도 / Density

150kg/m<sup>3</sup>

### 효과 / Effect

- Galvanized Steel Sheet 설치 제거 / Skip the Galvanized steel sheet work
- 자재비 및 설치비용 절감 / Reduction of material & installation costs
- 금형을 제작품으로 치수정밀도 및 작업성 우수 / Excellent dimensional accuracy and workability with mold-making materials

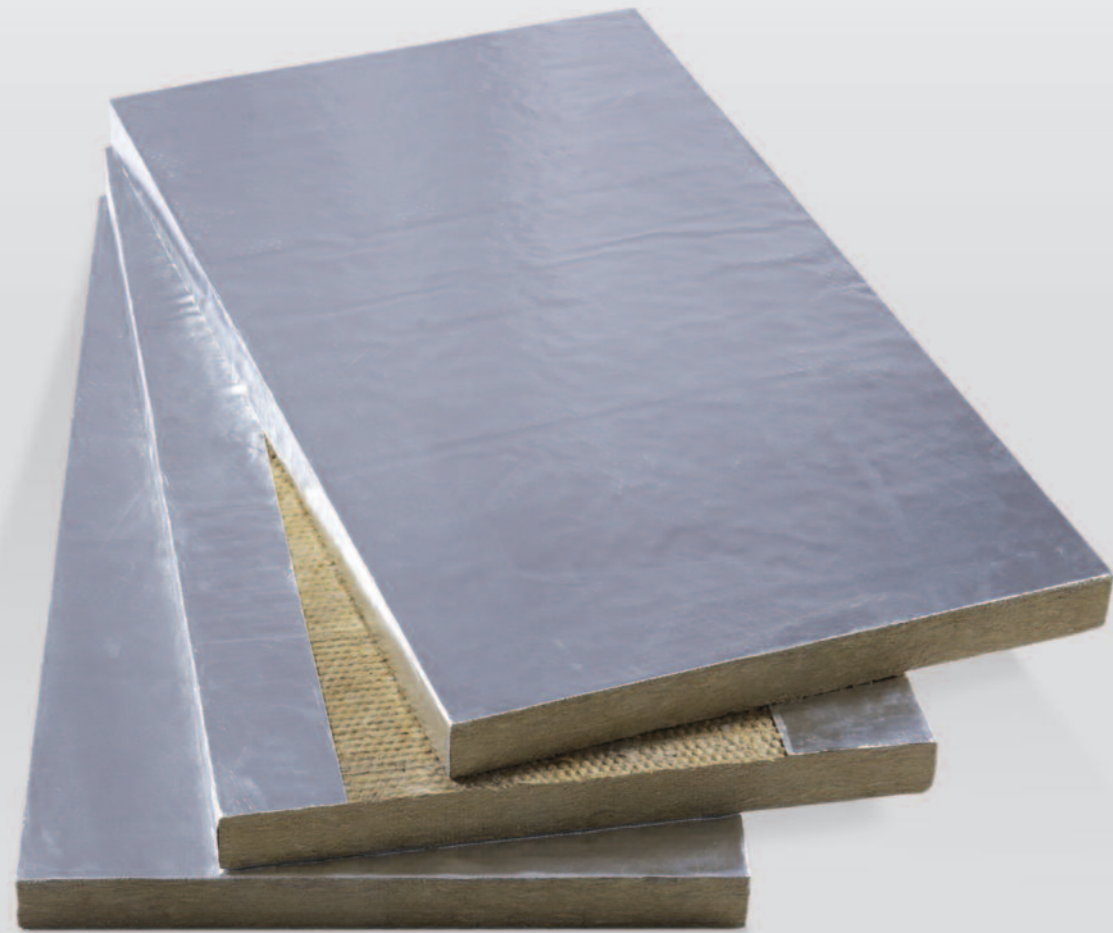


## BOARD

선박 A-CLASS 적용품으로 Wall & Ceiling에 적용되며 시공성이 우수한 제품입니다.

This is applied to the Wall & Ceiling as A-Class application and has excellent workability.

용도 / Applications	생산규격 / Production Standard
<ul style="list-style-type: none"> <li>• Interior Material for ship</li> <li>• Industrial Plant</li> <li>• Building</li> <li>• Duct</li> </ul>	25mm, 40mm, 50mm, 60mm, 75mm Thickness and Surface Material would be variable by customer's order.
표준규격 / Standard specification	밀도 / Density
FTP Code 2010, KS L 9102, JIS A 9504, ASTM C 612	100kg/m <sup>3</sup> , 110kg/m <sup>3</sup> , 120kg/m <sup>3</sup> , 150kg/m <sup>3</sup>

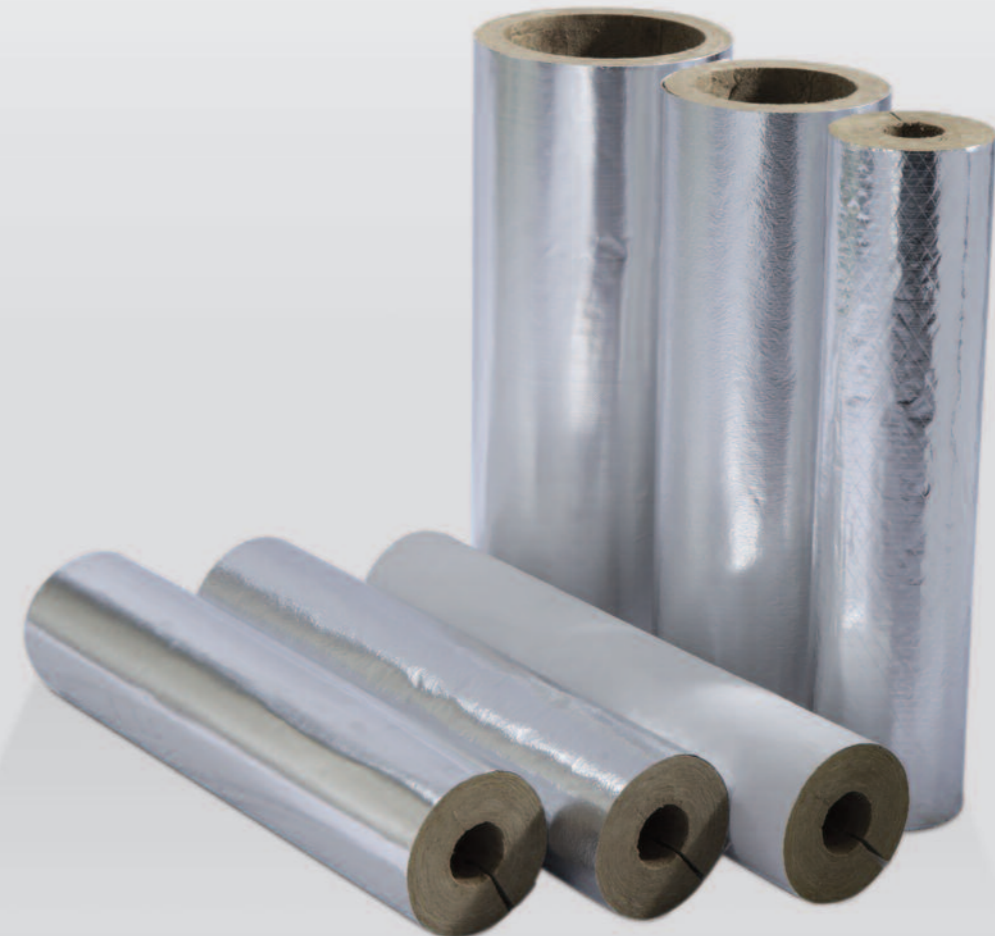


## PIPE COVER

단열효과가 높으며 시공이 간편하여 파이프, 배관설비 등의 보온 단열용으로 우수한 제품입니다.

This product is excellent for thermal insulation such as pipes and plumbing facilities due to its high thermal insulation and easy workability.

용도 / Applications	생산규격 / Production Standard
Pipe insulation	15A ~ 500A / Thickness 30mm, 50mm, 75mm
표준규격 / Standard	밀도 / Density
KS L 9102, JIS A 9504, FTP Code 2010, ASTM C 547	110kg/m <sup>3</sup> , 120kg/m <sup>3</sup>
부착품 / Surface Material	Glass Cloth, Glass Cloth with AL-Foil (ALGC)



## ROUND COVER

단열효과가 높으며 시공이 간편하여 파이프, 배관설비 등의 보온 단열용으로 우수한 제품입니다.

This product is excellent for thermal insulation such as pipes and plumbing facilities due to its high thermal insulation and easy workability.

<b>용도 / Applications</b>	<b>생산규격 / Production Standard</b>
Above 550A PIPE	550A ~ 3700A
<b>표준규격 / Standard</b>	<b>밀도 / Density</b>
FTP Code 2010	110kg/m <sup>3</sup> , 120kg/m <sup>3</sup>



## BENDING & ELBOW(LONG, SHORT) COVER

단열효과가 높으며 시공이 간편하여 파이프, 배관설비 등의 보온 단열용으로 우수한 제품입니다.

This product is excellent for thermal insulation such as pipes and plumbing facilities due to its high thermal insulation and easy workability.

<b>용도 / Applications</b>	<b>생산규격 / Production Standard</b>	
ELBOW (Short, Long), Bending	ELBOW	15A ~ 600A
	BENDING	15A ~ 200A
<b>표준규격 / Standard</b>	<b>밀도 / Density</b>	
FTP Code 2010	110kg/m <sup>3</sup> , 120kg/m <sup>3</sup>	





## STIFFENER MOLD

선박 A-CLASS 보강재의 편리한 시공성을 위한 당사 고유 개발품이며, 기존 보강재 시공 시 “현장 형취 가공”에 따른 문제점을 개선하여 “접이식 가공(일체형)”으로 작업성이 우수한 제품입니다.

This is our unique development product for convenient workability of A-Class part in ship. It improves the problem of existing stiffener about “field measurement & processing” and has excellent workability as a “customized single type processing”.

### 용도 / Applications

A-30 / A-60 Class  
(Insulation material in Stiffener)

### 생산규격 / Production Standard

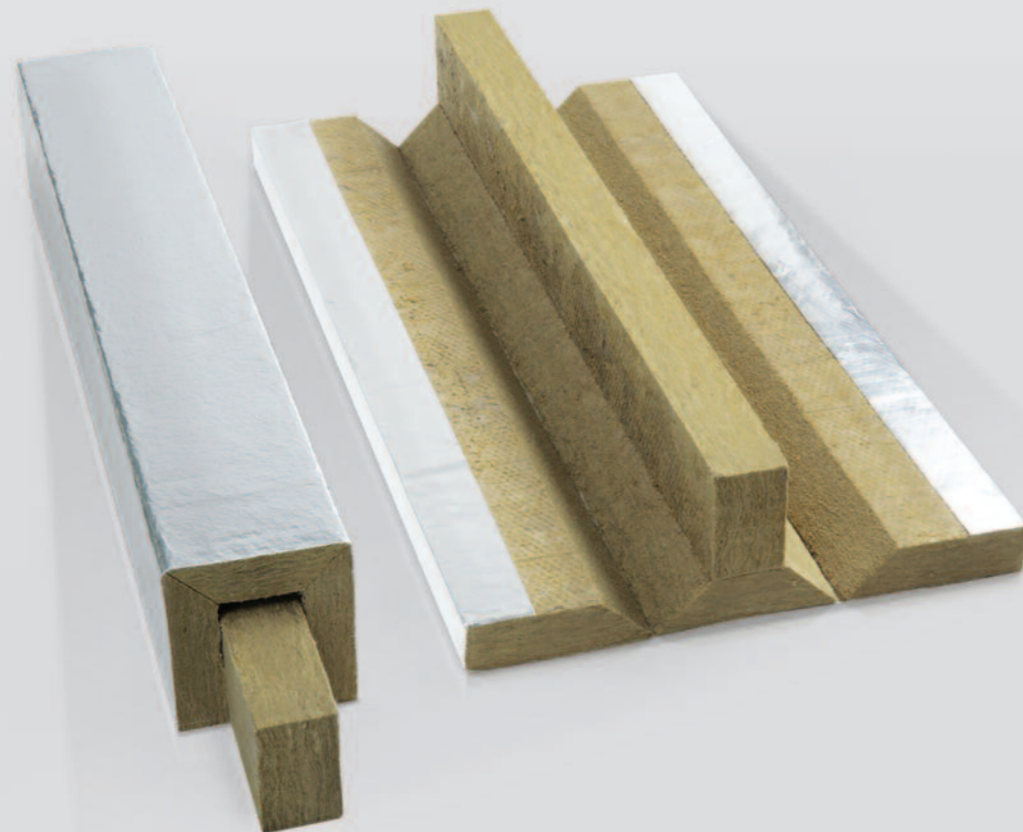
Thickness, Size and Surface Material are adjusted by customer's order

### 밀도 / Density

100kg/m<sup>3</sup>, 110kg/m<sup>3</sup>, 120kg/m<sup>3</sup>,  
150kg/m<sup>3</sup>(YS-HARDNESS)

### 효과 / Effect

- 작업 및 시공성 향상 / Improving work and workability
- 생산능률 극대화로 인한 작업공기 단축 / Reduced duration of work due to maximization of productivity
- 작업환경개선 (Scrap 최소화) / Improving the working environment (minimizing scrap)



## VALVE / FLANGE / EXPANSION JOINT MAT

각종 배관라인에 있는 Valve, Flange 및 Expansion Joint Mat의 보온작업에 사용되는 제품입니다.

This product is insulation material for Valve, Flange and Expansion Joint Mat in various piping lines.

### 용도 / Applications

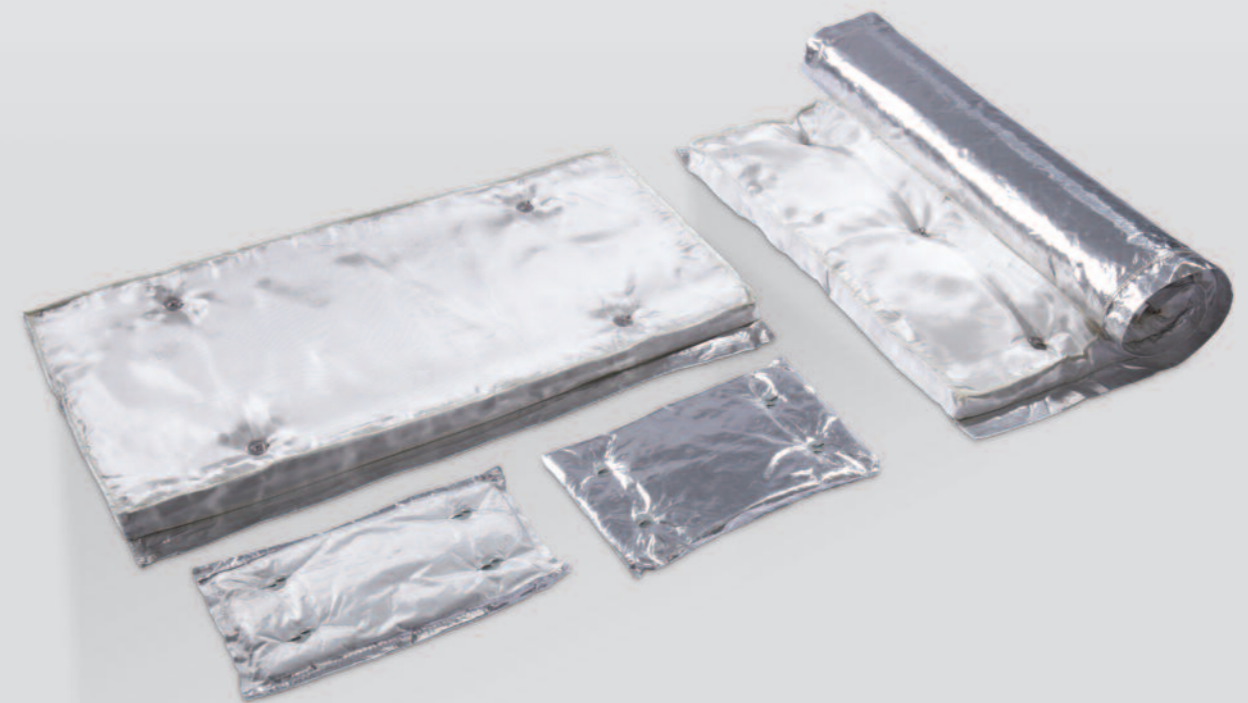
Mat for Valve & Flange &  
Expansion Joint Mat

### 생산규격 / Production Standard

JIS, DIN, ANSI  
50A ~ 3700A

### 밀도 / Density

80kg/m<sup>3</sup>, 100kg/m<sup>3</sup>



## GLASS WOOL BOARD

강도 및 내구성이 높고 뛰어난 보온 단열과 흡음능력이 우수한 제품입니다.

This product is excellent with high strength, durability, thermal insulation and sound absorption.

### 용도 / Applications

- Interior Material for ship
- Interior Material for Car
- Soundproof Wall
- Duct
- Building

### 표준규격 / Standard

KS L 9102, JIS A 9504, ASTM C 665

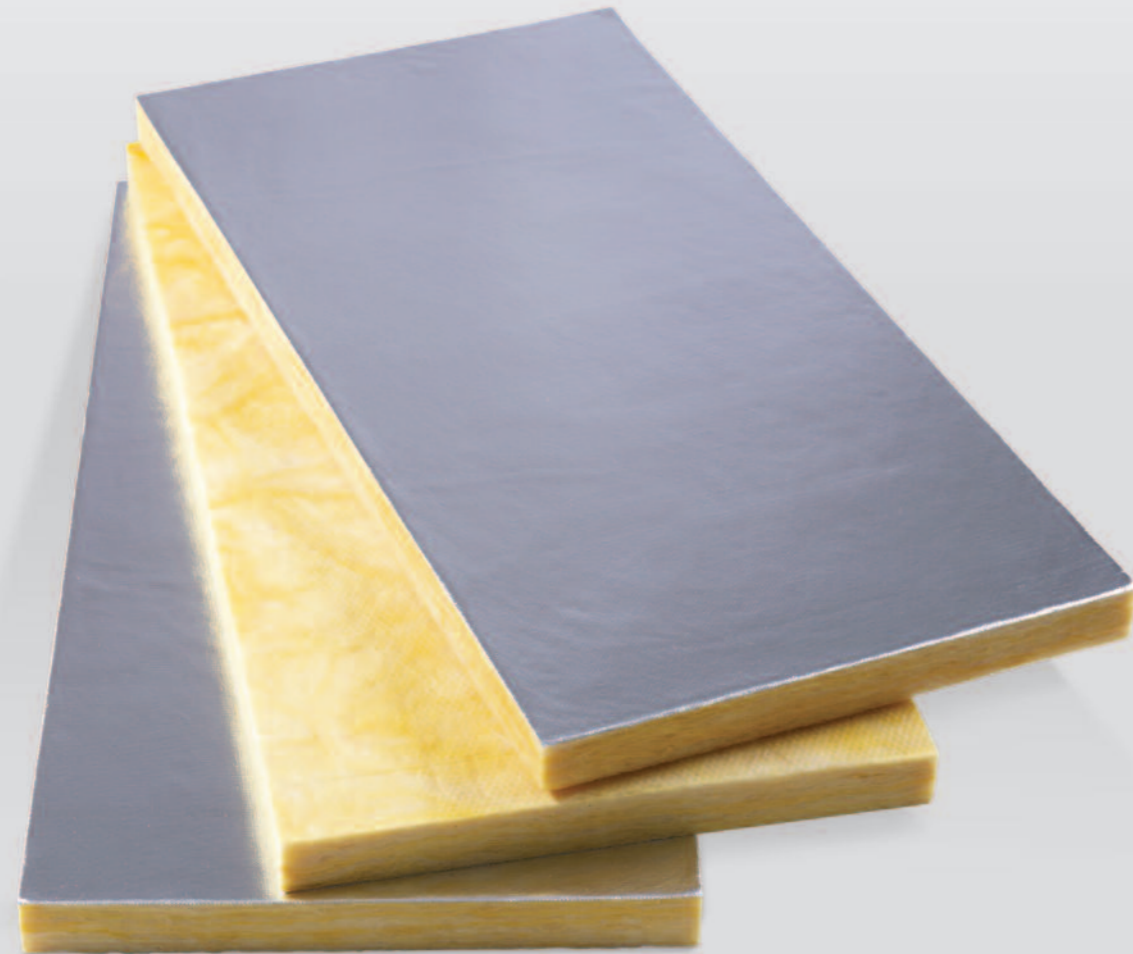
### 생산규격 / Production Standard

두께 / Thickness 25mm~150mm

사이즈 / Size 1m x 1m, 1m x 2m

### 밀도 / Density

20kg/m<sup>3</sup> ~ 64kg/m<sup>3</sup>



## GLASS WOOL ROLL

강도 및 내구성이 높고 뛰어난 보온 단열과 흡음능력이 우수한 제품입니다.

This product is excellent with high strength, durability, thermal insulation and sound absorption.

### 용도 / Applications

- Interior Material for ship
- Interior Material for Car
- Soundproof Wall
- Duct
- Building

### 표준규격 / Standard

KS L 9102, JIS A 9504

### 생산규격 / Production Standard

1m x 20m (25T), 1m x 10m (50T), 1m x 7m (75T)

### 밀도 / Density

20kg/m<sup>3</sup> ~ 24kg/m<sup>3</sup>

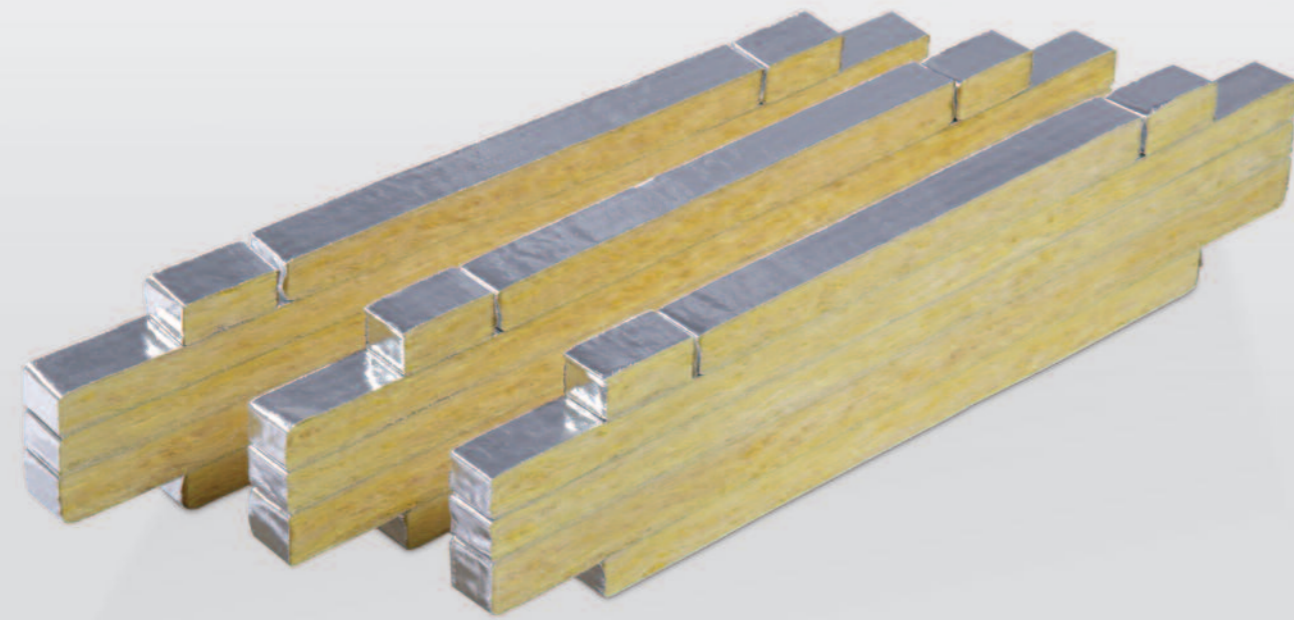


## N096

선박 LNG선 화물창의 보냉재 적용품으로 "GTT 인증"을 획득한 단열성이 우수한 제품입니다.

This product is the cold insulation material at CCS (Cargo Containment System) in LNG Ship and it is a superior product with GTT certification.

- GLASS WOOL
- FLEXIBLE(F&M TYPE)
- ANTI-STICKING FILM

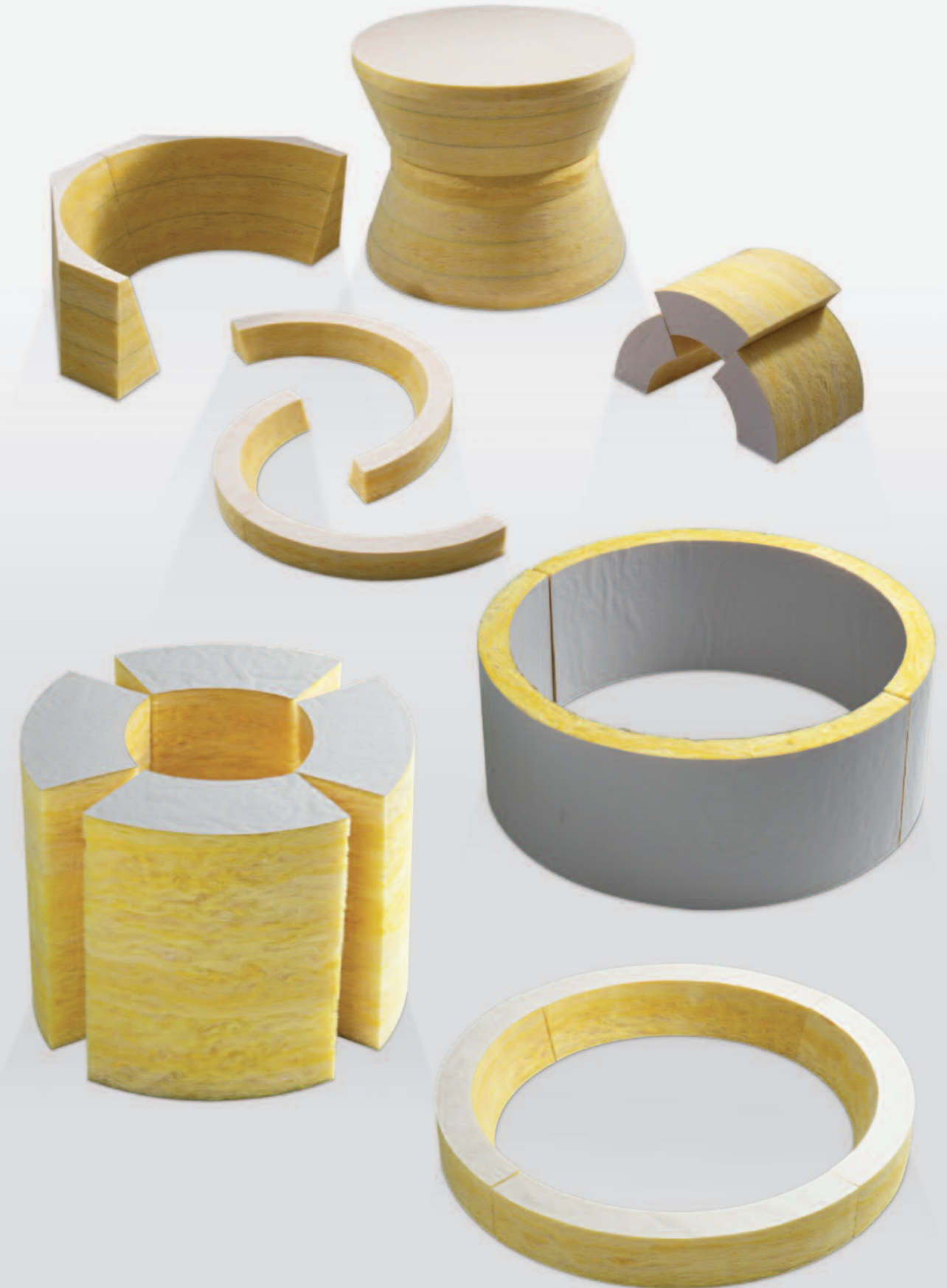
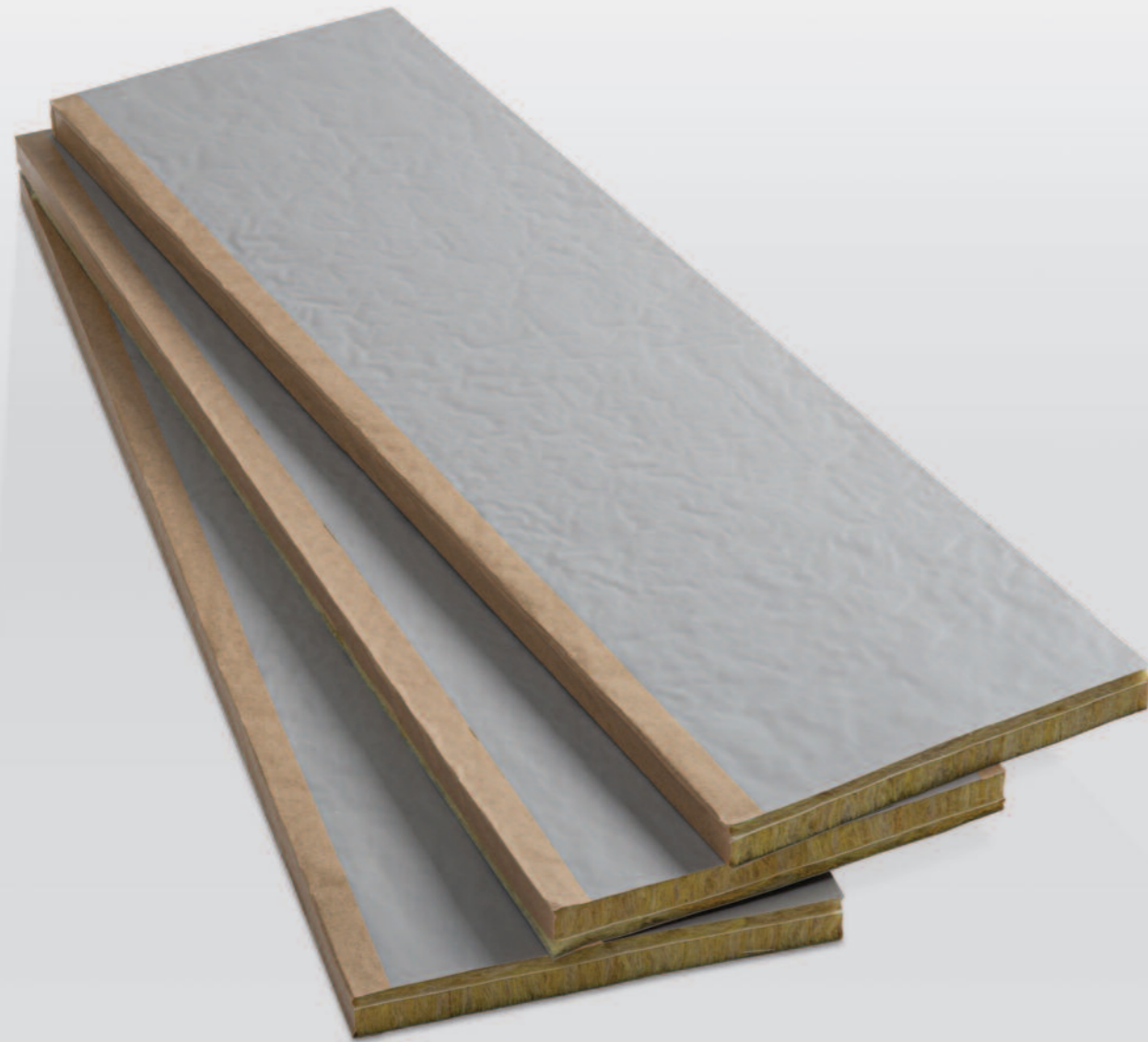


## MARKIII / MARKIII FLEX / MARKIII FLEX+

선박 LNG선 화물창의 보냉재 적용품으로 "GTT 인증"을 획득한 단열성이 우수한 제품입니다.

This product is the cold insulation material at CCS (Cargo Containment System) in LNG Ship and it is a superior product with GTT certification.

- GLASS WOOL
- GLASS CLOTH

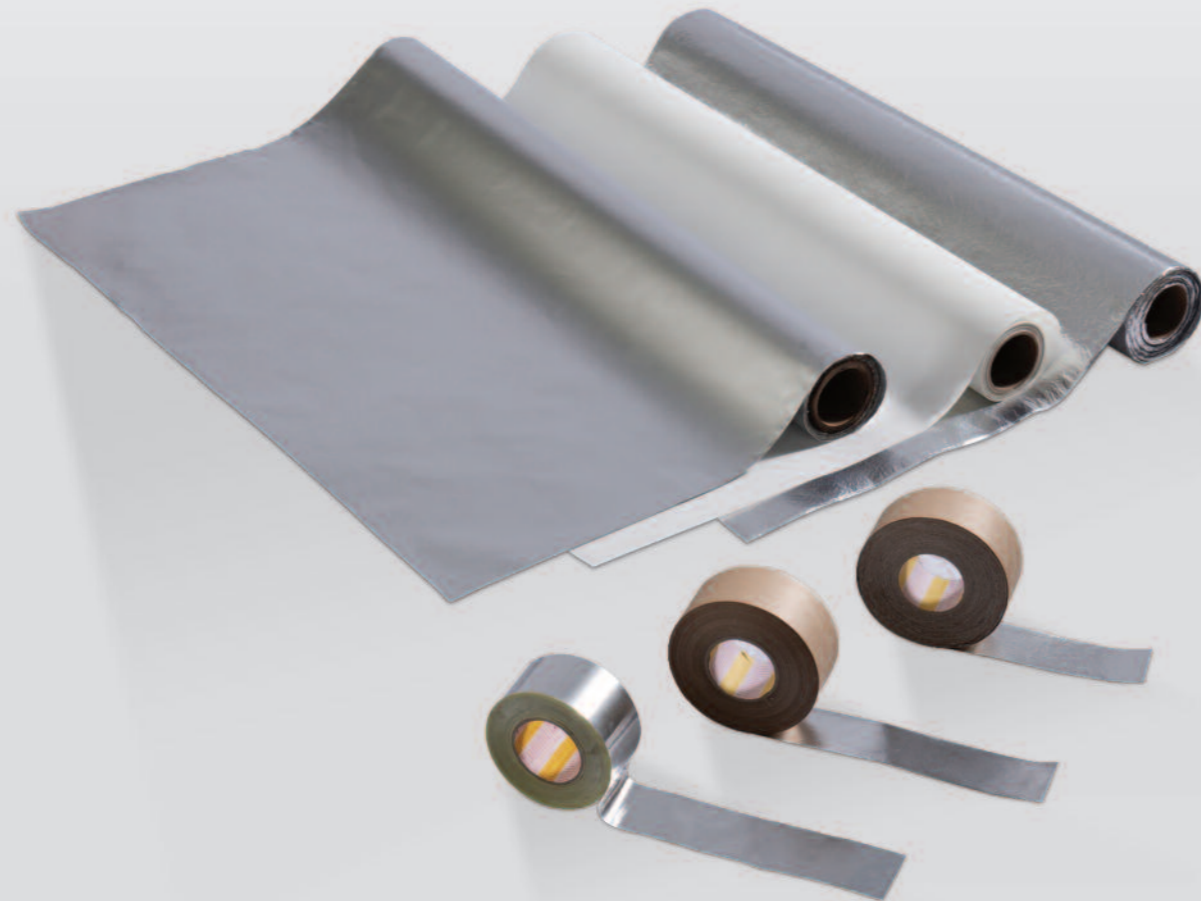


## SURFACE MATERIALS & TAPE

보온단열 시공부위의 마감을 위해 사용되는 제품입니다.

This product is used for finishing thermal insulation material.

구성품 / Components	폭 / Thickness
Aluminum Tape, Glass Cloth Tape, Glass Cloth with AL-Foil Tape	50mm / 75mm / 100mm
	길이 / Length
	50m/RL

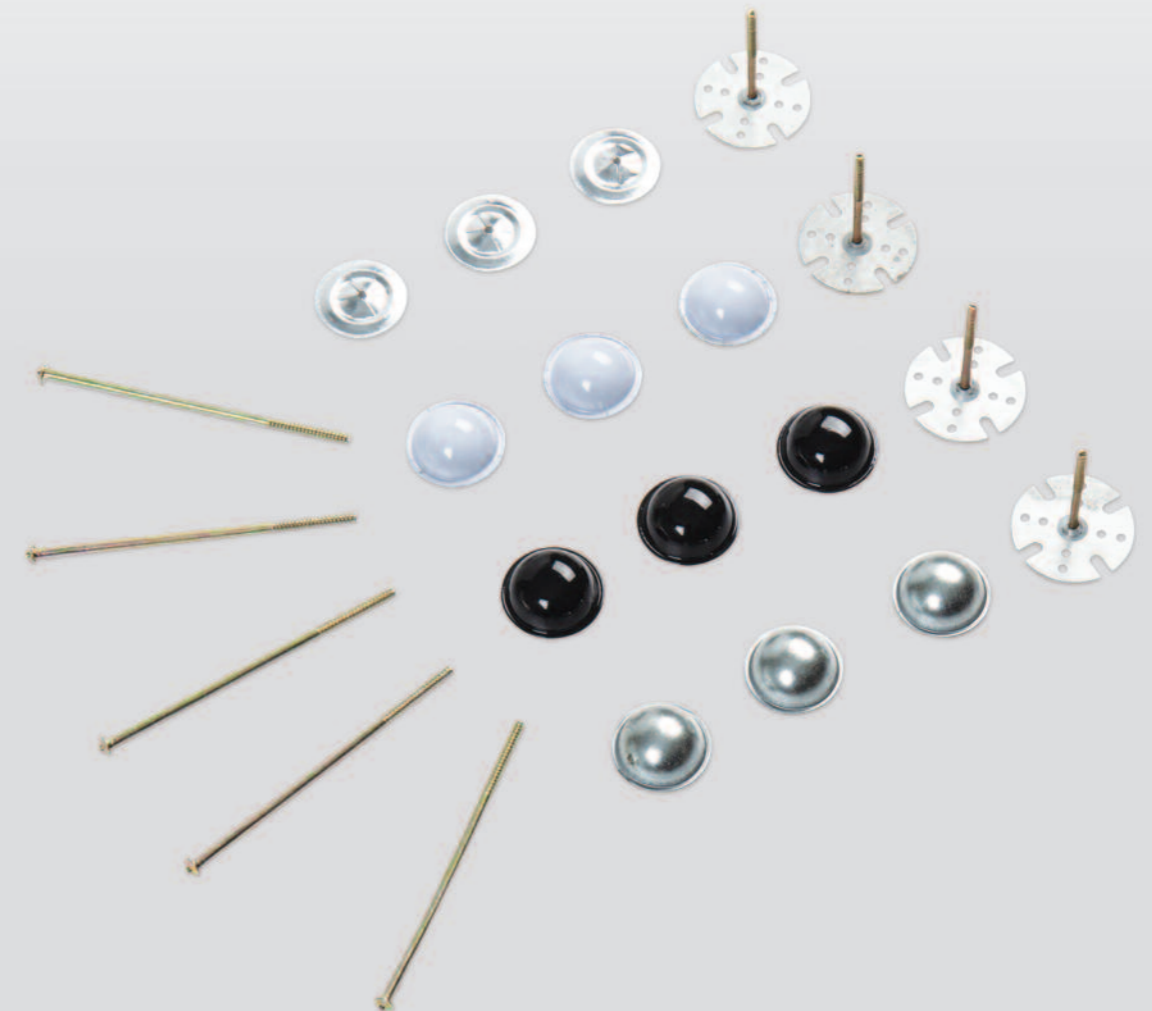


## INSULATION PIN

보온, 단열 시공부위의 마감을 위해 사용되는 제품입니다.

This product is used for finishing thermal insulation material.

용도 / Applications	생산규격 / Production Standard
Fixing the thermal insulation material	Length 25mm ~ 150mm other sizes can be made according customer's order.



새로운 시대,  
 새로운 미래를 향한  
 유신단열의 도전은  
 계속됩니다.

A New Era  
 Toward a New Future  
 YOU SHIN Insulation's  
 Challenge continues

