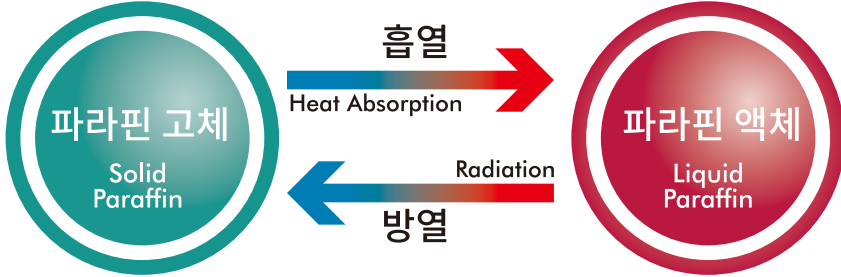


## 축열·축냉 마이크로 캡슐의 구조

### Heat and Cold Storage Micro-Capsule Construction

축냉 마이크로 캡슐  
Cold Storage Micro-Capsule

축열 마이크로 캡슐  
Heat Storage Micro-Capsule



자료 제공: 미키리켄 공업 주식회사 Materials provided by Mikiriken Industrial co.,Ltd.



축열·축냉 마이크로 캡슐 외관  
캡슐은 유백색 슬러리(점도가 있는 액체)  
Appearance of the Heat and Cold Storage Micro Capsules

The capsules appear as a milky white slurry (a liquid with a bit of tackiness to it)

### 특징 Features

- ① 상변화 물질(Phase Change Material=PCM)을 캡슐화
- ② PCM은 잠열량이 큰 파라핀류를 사용
- ③ 캡슐이 열의 흡방출을 반복
- ④ 상변화 시에는 온도 변화가 없으며 온도가 일정화
- ⑤ 설정 온도 기준 5°C~60°C 임의 설정 가능

1. Phase Change Material (PCM) has been made into capsules
2. Paraffin was used in PCM because it holds a large amount of latent heat
3. The capsules continually absorb and radiate heat
4. The heat remains steady, with no change in temperature during phase changes
5. The temperature is set from around 5°C - 60°C and can be

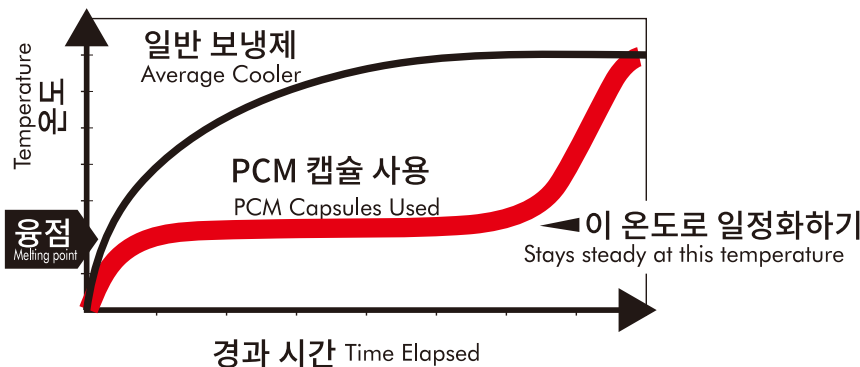
# 온도를 일정화 에너지 절약 효과

에너지 절약 건축 재료 보냉 용설 동결 방지 등 다양한 용도에

## Steady Temperature Energy Saving Results

For Energy Efficient Building Materials, Cooling, Snow Removal, Freezing Prevention, and Other Uses

온도 일정화의 이미지(보냉 용도의 경우)  
Illustration of Steady Temperature (when used for cooling)



### 제품 개발에 대해서 Ordering Procedure

- ① 고객의 요청사항을 귀담아 듣습니다
  - ② 요청사항에 맞추어 시제품을 만듭니다
  - ③ 시제품을 시험 및 평가합니다
  - ④ 시제품을 평가 받습니다
  - ⑤ 실용화를 위해 제안합니다
1. We listen to the customer's needs
  2. We make a prototype that meets those needs
  3. We test and evaluate the prototype
  4. We request evaluation of the prototype
  5. We make suggestions for practical use

# 蓄热板

## Heat Storage Board



### 特点 Features

- ① 蓄热量90kJ/m<sup>2</sup>以上 潜热量45kJ/m<sup>2</sup>以上
- ② 蓄热设定温度25° C (设定温度可商议)
- ③ 薄型轻量板
- ④ 可在施工现场进行切割加工 (可提供切割加工服务)
- ⑤ 可通过打钉、固定螺丝及黏着剂等方式施工

- 1. The board can store over 90 kJ/m<sup>2</sup> of heat, and over 45 kJ/m<sup>2</sup> of latent heat
- 2. The heat of the board is set to 25°C (consult with us regarding other temperatures)
- 3. The boards are thin and light
- 4. Can be cut on site during construction (consult with us regarding cutting)
- 5. Can be used with nails, screws, and adhesives

# 高蓄热潜热建材 节能效果

“次世代节能建材支援事业” 注册产品

Heat Storage and Latent Heat Building Material Energy Saving Results  
Product Registered under the "Next Generation of Energy Saving Building Materials Support Project"

### 蓄热板 产品规格

### Heat Storage Board Product Specs

注册号 Registration Number 产品编号 Product Number	厚度 Thickness	尺寸 Length	温度范围15°C~35°C Temperature Range 15°C-35°C		温度范围15°C~35°C Temperature Range 20°C-35°C		重量/张 Weight per board
			蓄热量 Heat Storage	潜热量 Latent Heat	蓄热量 Heat Storage	潜热量 Latent Heat	
JT0770001 PB-25-3 (无PET) Without PET	1.1mm	900 x 1800mm	97 KJ/m <sup>2</sup>	62 KJ/m <sup>2</sup>	84 KJ/m <sup>2</sup>	57 KJ/m <sup>2</sup>	1.6 Kg
JT0770002 PB-25-8 (有PET) With PET	2.9mm	900 x 1800mm	296 KJ/m <sup>2</sup>	194 KJ/m <sup>2</sup>	191 KJ/m <sup>2</sup>	113 KJ/m <sup>2</sup>	4.2 Kg

- ※注册号为“2018年度次世代节能建材支持事业”事业者一般社团法人环境共创发起人补助对象产品注册编号
- ※产品编号中的“PET”是指当需要防水、防湿等时，在板材表面粘贴聚酯薄膜(PET)的类型。是否需PET可商议
- ※規除了所标明的规格、尺寸外，可按照客户需求的尺寸，提供加工服务。数量可商议。
- ※可提供附带双面胶等黏着剂的产品

- \* The product registration number is the number used for products registered in the "2018 Next Generation of Energy Saving Building Materials Support Project" run by the general incorporated association Sustainable Open Innovation Initiative.
- \* The PET with the product number refers to boards where a polyester film (PET) has been applied to the back of the board to protect it from water and humidity. Please consult with us about including or excluding this film.
- \* Other than the sizes listed in the specs, we can also cut custom sizes. Please consult with us regarding the exact quantity.
- \* We can provide products with double-sided tape or other types of adhesives.

