

PLUSS[®]

TECHNOLOGY FOR
A BETTER WORLD

**Thermal
Energy Storage**

**Higher Comfort
Lower A/C Cost**

Passive PCM Climate Ceiling

**Thermal Energy Storage solutions
keeps Buildings Cool during the Day**

save[®] HS22

CLIMATE CEILING POUCH

Height: 14 mm

Length: 570 mm

Width: 270 mm

Pouch Material: 125-Micron metallized foil

Energy storage: 1811,76 kJ/m²

PCM: save[®] HS22 mix of hydrated salts

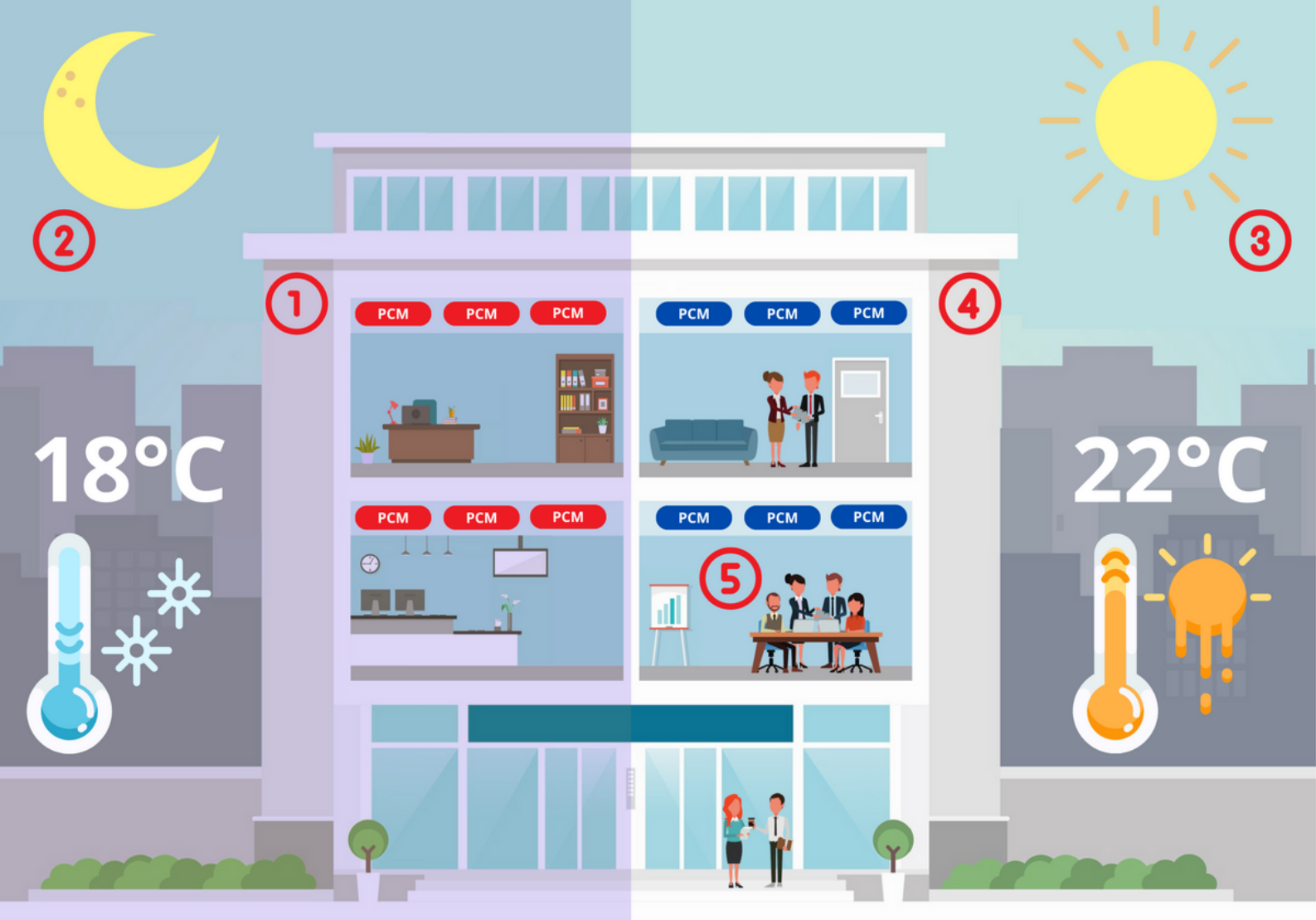
Melting Temperature: 22°C

Freezing Temperature: 18°C

Lifespan: 3000+ cycles | 25 year

Safety: Non-toxic & Non-flammable EN-13501-1





How it works

- ① The PCM pouches are placed on suspended ceilings
- ② At night when the ambient temperature falls below 18°C. The PCM in the pouch freezes with the free-cold air ventilation.
- ③ During the day, sunlight, people and equipment increase the room temperature.
- ④ This warm air rises and is absorbed by the PCM pouches and causes the PCM to melt.
- ⑤ Due to the heat absorbing capacity of the PCM pouches, the room remains at a stable temperature.

Every night this cycle repeats

Why Pluss Advanced Technologies

PLUSS is a **materials research** and **manufacturing** company involved in the field of **Phase Change Materials (PCMs)** for **thermal energy storage**.

A **sustainable** concept with endless **energy-saving applications**.



Your partner in PCM supply



European warehousing and encapsulating in the Netherlands



Custom solutions for special needs by strong research and development



15+ years of experience

Pluss Advanced Technologies B.V.

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