

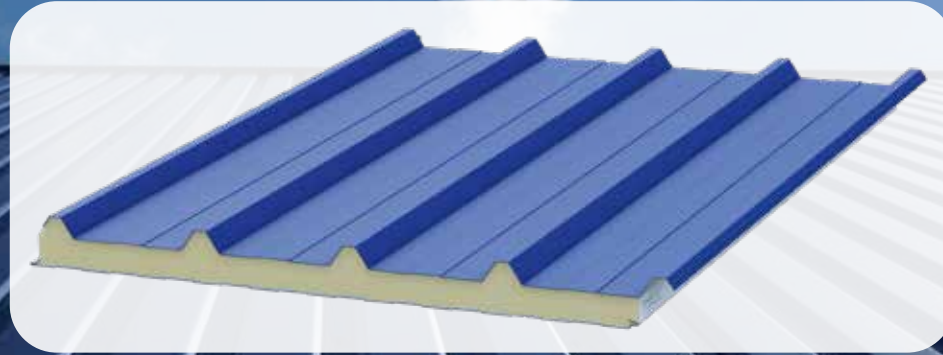
SmartCore

# NEXT GENERATION INSULATION TECHNOLOGY



SmartCore

**NEXT GENERATION  
INSULATION  
TECHNOLOGY**





## ABOUT ASSAN PANEL

Assan Panel, the leading organization in the sandwich panel industry, initiated its manufacturing operations in 1990 with its first factory in Tuzla, Istanbul which had a production capacity of 4 million m<sup>2</sup>/year. Having continued its investments to increase its capacity over the years, Assan Panel invested in its Iskenderun plant in 2004 with a manufacturing capacity of 3 million m<sup>2</sup>/year, Balikesir plant in 2009 with a manufacturing capacity of 3 million m<sup>2</sup>/year, and Jordan plant in 2012 with a manufacturing capacity of 4.5 million m<sup>2</sup>/year, respectively.

In 2015, accomplishing its investment in the second production line in Tuzla, Istanbul plant with a capacity of 3.5 million m<sup>2</sup>/year, it reached a total production capacity of 18 million m<sup>2</sup>/year. In 2021, realizing its first investment in Turkic Republics, it has initiated its operations in the Azerbaijan plant in cooperation with STP (Sumgait Technologies Park).

A key pioneer in the industry, Assan Panel contributes to the construction of sustainable and environmentally friendly buildings producing sandwich panels for cold room, roof, and wall applications ensuring fire safety provided by the PIR and mineral wool filling, as well as other products including panels with polyurethane filling, ready-made panels for solar system installation, project-specific custom-made accessories, polycarbonate skylights, fasteners consisting of a wide range of screws, and construction chemicals consisting of sealing and filling materials. In addition, Assan Panel offers application services of superior quality in collaboration with its domestic and international business partners and thanks to its high-quality, safe, innovative, and fire-resistant product range.

As a pioneer to set a number of records for the first time in the industry, Assan Panel is the leader manufacturer in Turkey, having FM approval without any height limit in buildings with its FM certification granted in 2015 as well as many other international certificates. Exporting to 85 countries and playing an active role in the global market, Assan Panel becomes a total solution partner for industrial buildings.

**TUZLA Plant**



**ISKENDERUN Plant**



**BALIKESIR Plant**



**JORDAN Plant**



**AZERBAIJAN Plant**



Assan Panel reserves the right to change the features of its products. Users should always take into account the latest edition of the Local Product Information Sheet for the relevant product, which can be obtained by contacting Assan Panel.





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**As Assan Panel, we facilitate access to renewable energy with our innovative, sustainable, energy efficient products and solutions.** We carry out all our production processes using eco-friendly methods and green technologies.

”





## NEXT GENERATION INSULATION TECHNOLOGY

With its 0,018 W/mK\* lambda ( $\lambda$ ) value, SmartCore offers thermal insulation by **110% more than mineral wool** and by 25% more than **PUR filling material**.

Therefore, it has **one of the best lambda value** that could be offered by any closed-cell insulating material. With SmartCore insulated panels, you can easily have **higher thermal performance with less thickness**. Panels manufactured by SmartCore technology reduce long hours of labor during assembly, ensure more predictable project planning and management, and **reduce installation time**.

- ✓ **Unique energy efficiency**
- ✓ **Superior fire safety**
- ✓ **Advanced environmental features**
- ✓ **The longest performance guarantee**

Offers the highest combined performance in the global industry with its unprecedented specifications.



\*The thermal conductivity value of SmartCore filled sandwich panel products was tested in an independent laboratory and measured as 0.018 ( $\pm 0.001$ ) W/mK.

# SMARTCORE NEXT GENERATION INSULATION TECHNOLOGY



Up to  
20-Year  
Warranty



Unprecedented  
Thermal  
Performance



Quick  
Installation



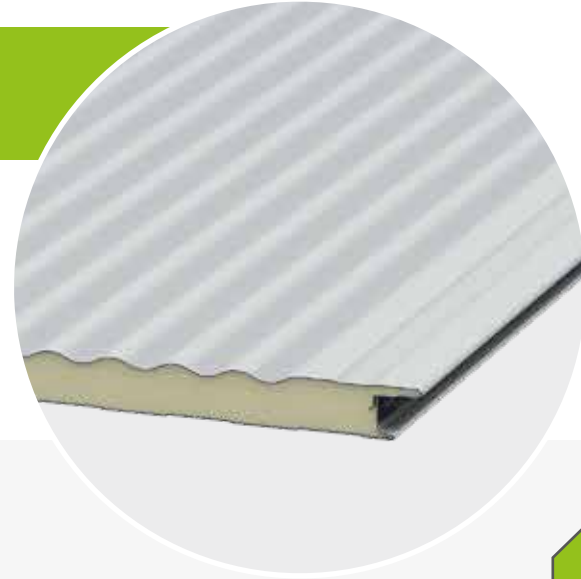
More  
Living Space



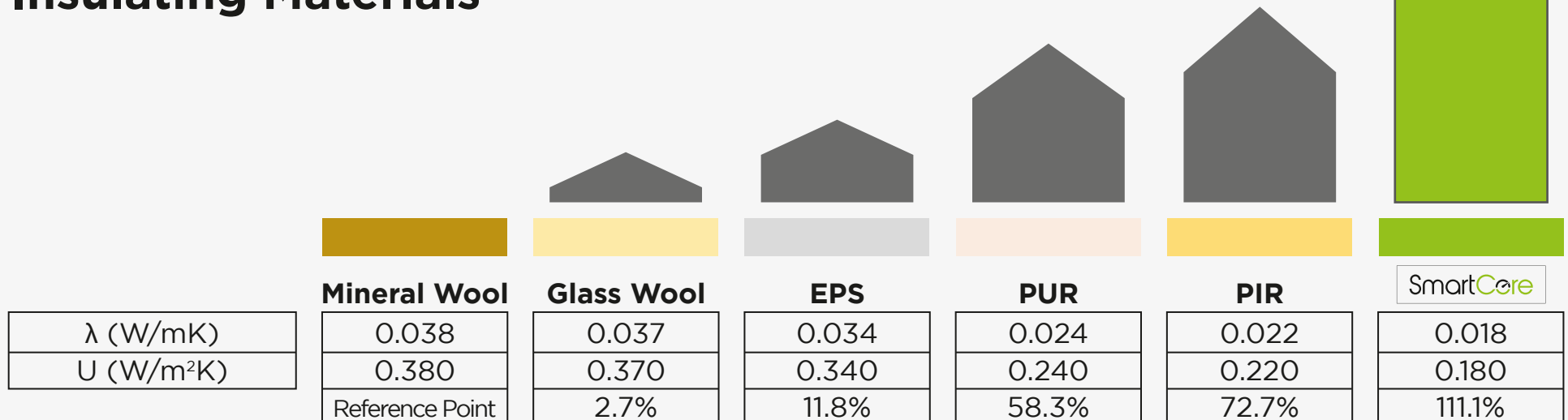
# UNPRECEDENTED THERMAL PERFORMANCE

## Unmatched Lambda ( $\lambda$ ) Value in its Class

With its 0,018 W/mK\* lambda ( $\lambda$ ) value, SmartCore offers thermal efficiency by **110% more than mineral wool** and by 25% more than **PUR filling material**. Therefore, it has one of the best lambda value that could be offered by any closed-cell insulating material.



## Insulating Materials



\*Reference Product Thickness: 100 mm

\*The thermal conductivity value of SmartCore filled sandwich panel products was tested in an independent laboratory and measured as 0.018 ( $\pm 0.001$ ) W/mK.

# SUPERIOR **FIRE INSULATION** PERFORMANCE

In addition to providing **excellent thermal insulation and lifelong performance**, our insulated panels manufactured with SmartCore technology also offer **superior fire insulation performance** with b-s2, d0 fire class as proven by reaction to fire testing.







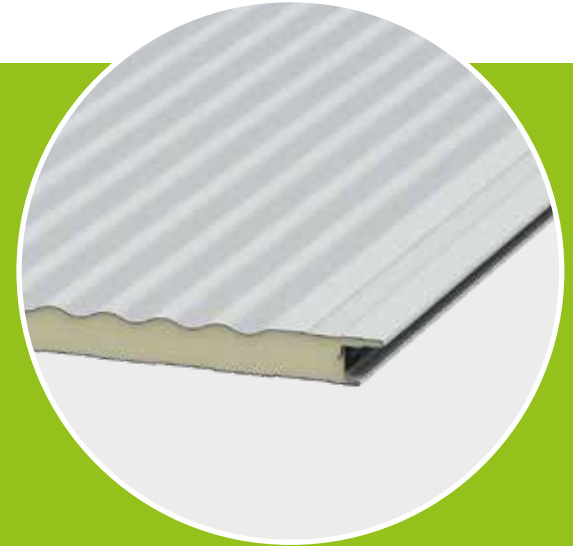
# SUSTAINABLE DESIGNS AND ECO-FRIENDLY BUILDINGS



Assan Panel's roof and exterior wall panels manufactured by SmartCore technology offer a higher thermal performance in less thickness. **With SmartCore insulated panels, we design high-performance buildings** that consume less energy, cause less carbon emissions, and **are more responsible towards the environment** during their economic life by adopting an integrated design approach.

# UNRIVALED BUILDING PERFORMANCE

Our systems and solutions protected by industry-leading **warranty conditions** offer **unrivaled** performance with up to **20-year warranty**.





# QUICK INSTALLATION

With quick and easy installation, it reduces the time required for working at heights, makes project planning and management more predictable, and **saves time to be spent in installation.**

Quick  
Installation





# MORE LIVING SPACE

With its **0,018 W/mK\* lambda ( $\lambda$ ) value**, **SmartCore** offers better performance by 25% as compared to a PUR insulation of the same thickness without any decrease in the final U value to provide you with a finer and **larger living space**.

\*The thermal conductivity value of SmartCore filled sandwich panel products was tested in an independent laboratory and measured as 0.018 ( $\pm 0.001$ ) W/mK.



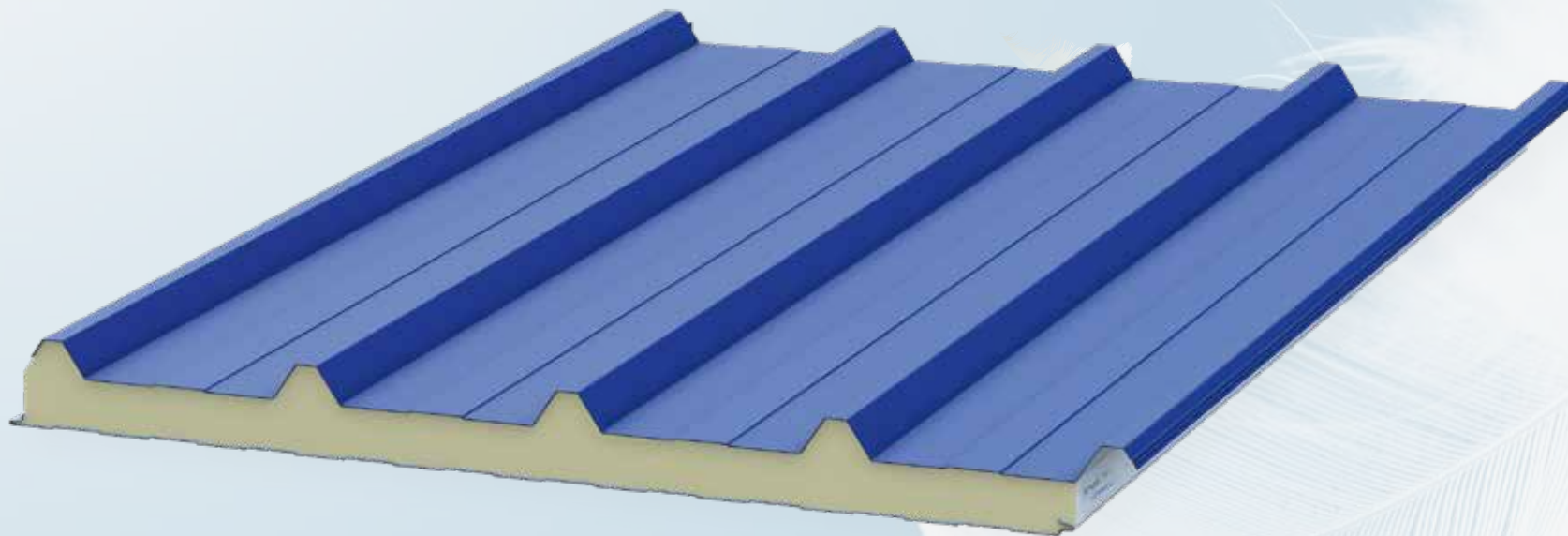
A white semi-truck with a long trailer is driving on a multi-lane highway. The trailer has the 'SmartCore' logo on its side. The background shows a line of green trees under a blue sky with some clouds. A green text box is overlaid on the right side of the image.

## LOWER COST OF TRANSPORTATION

By increasing the number of panels transported per truck, SmartCore Insulated Panels help you reduce the number of trucks that enter your site and therefore reduce the **cost of transportation**.

# FINER & HIGHER PERFORMANCE

With a finer and lighter solution, SmartCore offers higher thermal performance. With these characteristics, it offers **cost savings** during installation and **transportation**.





# SMARTCORE FOR MORE

**SmartCore Next Generation Insulation Technology** helps achieve better performance in “green building” rating systems.

SmartCore insulated panels offer a more modern solution as compared to the other insulating materials due to its characteristics such as **indoor space optimization as well as easy handling during transportation and installation.**

With its unique characteristics, it allows for optimization of resource productivity.







SmartCore

**NEXT GENERATION INSULATION TECHNOLOGY**

