

**MATERIAL SAFETY DATA SHEET**  
**Polyisocyanurate PIR core wall sandwich panels**



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**PART 1: PRODUCT AND COMPANY IDENTIFICATION**

**IDENTIFICATION:** Polyisocyanurate PIR wall sandwich panels PIRTECH PWS – PIR – ST 120 mm

**COMPANY:** PRUSZYŃSKI Sp. z o. o.  
Aleje Jerozolimskie 214  
02 – 486 Warszawa

**FACTORY:** PRUSZYŃSKI Sp. z o. o.  
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tel. +48 22 738 60 00  
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**PART 2: COMPOSITION/INFORMATION ON INGREDIENTS**

**MATERIAL:** steel: S220GD – S280GD+Z275

**CORE:** Polyisocyanurate PIR foam: density 40 (+/-3) kg/m<sup>3</sup>

**PART 3: HAZARDS IDENTIFICATION**

**POTENTIAL HEALTH EFFECTS:** There are no Risk Phrases associated with this product

**SPECYFIC HAZARDS:** Not applicable

**PART 4: FIRST AID MEASURES**

**EYES:** Not applicable

**SKIN:** Not applicable

**INGESTION:** Not applicable

**INHALATION:** Not applicable

**PART 5: FIRE-FIGHTING MEASURES**

**FLAMMABLE LIMITS IN AIR, UPPER:** In the event of fire, it will evolve potentially toxic dust or fumes containing carbon monoxide from the coating; in case of fire crew put on a satisfactory and approved breathing equipment.

**PART 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES:** Not applicable

**PART 7: HANDLING AND STORAGE**

It is allowed to storage maximum 2 packages of panels with length up to 6m one on another, in case of packages with length higher than 6m these packages should be storage separately.

All packages should be storage on flat surface with possibility to discharging water.

During storage of panels on building site, packages should be protected against mechanical damages, UV rays, aggressive conditions(acids, fertilisers, salts and other corrosion factors), precipitations, strong wind etc.

It's recommended to storage packages under roof in ventilated facilities. Period of storage should not be bigger than 3 months.

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Storage of panels should be on flat surface(square, hall) on ground beam, styrofoam or wood sleepers, which should be put on maximum span 2,5m(for panels of length to 2,5m there should be min. 3 sleepers.)

Protective foils are used for additional protection of surface of panels. Protective foils don't discharge customer from responsibility of proper protection during storage.

It's recommended to remove protective foil before assembly of panels on building. Removing of foil should be carried on during temperature min. +10 C degree,

because in lower temperatures there is possibility to leave visible marks of glue on panels.

Protective foil should be removed during 1 month of production date, even when panels are not assembled yet.

Improper storage may cause difficulties when removing the protective foil and leave glue marks, in this case complaints won't be accepted by Producer.

### **PART 8: PHYSICAL AND CHEMICAL PROPERTIES**

<b>ODOR:</b>	None
<b>PHYSICAL STATE:</b>	Solid
<b>EFFECTIVE WIDTH:</b>	1150 mm
<b>TOTAL WIDTH:</b>	1169 mm
<b>LENGTH:</b>	2000 – 16000 mm
<b>CORE THICKNESS:</b>	120 mm,
<b>COATING:</b>	SP - polyester- 25 µm, matt polyester – 35 µm, HPS 200, PUR
<b>REACTION to Fire:</b>	B-s1, d0;
<b>FIRE RESITANCE</b>	EI30 (0↔i)

### **PART 9: STABILITY AND REACTIVITY**

**STABILITY:** None

**CONDITIONS TO AVOID (STABILITY):** Aceton (propanon), Solvents especially: Benzen and Toluene, alcohols

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None in normal condition of use. Decomposition of binder above 190°C may produce carbon dioxide and some trace gases. The duration of release is dependant upon the thickness of the insulation, binder content and the temperature applied.

### **PART 10: RECOMMENDATIONS FOR UNLOADING AND STORAGE TRANSPORT**

**TRUCK:** Recommended vehicle for transport sandwich panels is TIR truck (tractor + semitrailer of length not another than loaded panels), with an open semitrailer or a semitrailer enable to be load along both sides. Load weight cannot exceed permissible cargo capacity. Straps used for transport should be placed maximum every 3 meters, but no less than 2 straps per one package. The straps shouldn't be stretched too tight or else panels will be deformed.

**UNLOADING:** It's allowed to unload panels of length up to 6m with fork-lifting truck of minimal span of truck 1,2m. Packages longer than 6m should be unloaded with spreader beam with span of bels minimum 2m per one package. For packages of 7m minimum quantity of bels is 4. In contact spot with package should be used a protective spacers.

In case of handling unloading especially wall panels should be carried vertically. After opening package, panels should be packed carefully holding them bottom cladding. There should be paid special attention to not shear any cladding during carrying. After opening package, panels shouldn't be sloped on another, because of risk of scratching. Handling unloading can be carried on only for panels no longer than 6m.

In case of transport organizing by customer, Pruszyński company is not responsible for any potential transport damage. Pruszyński company is not responsible for damage of goods during unloading on building site.

### **PART 11: CONSERVATION**

**INSPECTION:** At least once a year (the best in spring) roof and wall inspection should be done, in order to detect any damages.

**CLEANING:** Roof and wall need to be cleaned at least once a year. Dirt may cause spotty decoloring and escalate sensitiveness for corrosion. Dirty places can be cleaned with soft brush and water (Max temperature = 60 °C) If it's necessary, soft detergents are tolerated (pH 6-7, max 10% mixture). Panels may be also sluiced by running water (max

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pressure 100 bar, no closer than 30 cm from surface). Water stream cannot be perpendicular to panel surface; drive water stream always downwards. Wall panels should be cleaned from the top to the bottom. Cleaned place must be immediately sluiced by running water. Using any scrubbing powders, nitro solvents, substances with chlorine, fragrant substances, sodium salts or any substances containing ammonium chloride is strictly prohibited!

**DAMAGES:** During warranty, all damages must be reported to roof or wall builder and may be fixed only with it's agreement. Small damages can are fixed only with varnish, which dry up on air. Painting of big areas is possible only with special paints, dedicated for cladding renovation. User should paint only necessary places (eg. Scratch, corrosion). All corrosion points must be removed, at best using brushes or sandpaper. Then user must remove all dust, fat and other dirt. Removed areas may get different color, than rest of surface, because of atmospheric conditions.

**CAUTION!** All work safety rules must be respected during any conservation works. Pruszyński Ltd is not responsible for any accidents during conservation works.

### PART 12: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** PIR core of sandwich panel chemically inert, toxicological impact on environment not stated. Product acceptable according to hygienic criteria - HYGIENIC CERTIFICATE checked by MEDICAL UNIVERSITY of GDANSK

### PART 13: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** This product is not toxic to air, water or soil, by composition

### PART 14: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Steel scrap - recycling

**RCRA HAZARD CLASS:** Not toxic and hazardous waste