

## **AST® S Acoustic Wall Panel**

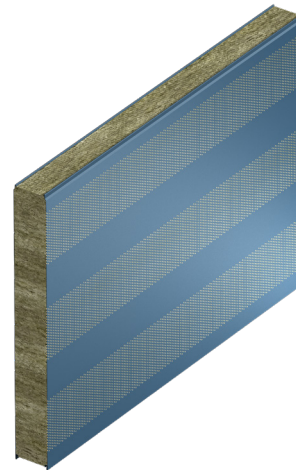
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# **Product Data Sheet**

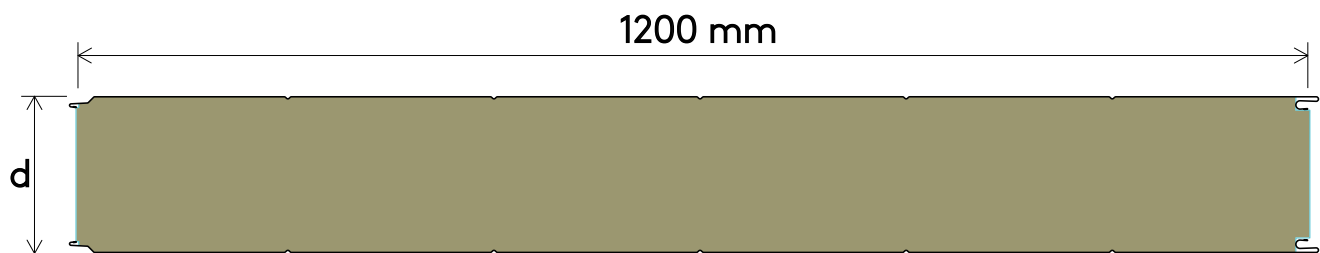
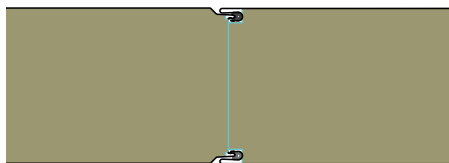


## Product Overview

Paroc Panel System's AST® S Acoustic panels have perforated steel facing on one side to provide better sound absorption. They are suitable for partition walls and ceilings in standard dry internal environments. In-ceiling installations, the perforated panel surface is positioned on the lower side. The AST® S stone wool core provides very good thermal performance up to 0,13 W/m<sup>2</sup>K, high fire resistance and tensile strength.



## Panel Cross Section



## Technical Parameters

| Module width / Cover width<br>[mm] | Nominal Thickness<br>[mm] | Mass<br>[kg/m <sup>2</sup> ] | Thermal Transmittance<br>(U-value) acc. EN 14509:2013<br>[W/m <sup>2</sup> K] | Airborne Sound Insulation<br>R <sub>a</sub> (C,C <sub>v</sub> ) | Weighted Sound Absorption Coefficient [α <sub>w</sub> ] | GWP for modules A1-A3<br>[kg CO <sub>2</sub> -eq./m <sup>2</sup> ] | GWP for modules A-C<br>[kg CO <sub>2</sub> -eq./m <sup>2</sup> ] |
|------------------------------------|---------------------------|------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|
| 1,200 / 1,196                      | 80                        | 16.49                        | 0.48                                                                          | 32 (-3; -4) dB                                                  | NPD                                                     | 28.5                                                               | 30.1                                                             |
|                                    | 100                       | 18.19                        | 0.38                                                                          | 32 (-3; -4) dB                                                  | NPD                                                     | 29.1                                                               | 30.8                                                             |
|                                    | 120                       | 19.89                        | 0.32                                                                          | 32 (-3; -4) dB                                                  | NPD                                                     | 30.1                                                               | 31.8                                                             |
|                                    | 150                       | 22.44                        | 0.26                                                                          | 32 (-3; -4) dB                                                  | NPD                                                     | 31                                                                 | 32.8                                                             |
|                                    | 175                       | 24.57                        | 0.22                                                                          | 32 (-3; -4) dB                                                  | NPD                                                     | 31.9                                                               | 33.8                                                             |
|                                    | 200                       | 26.69                        | 0.19                                                                          | 31 (-2; -3) dB                                                  | NPD                                                     | 32.9                                                               | 34.7                                                             |
|                                    | 240                       | 30.09                        | 0.16                                                                          | 30 (-1; -3) dB                                                  | NPD                                                     | 34.1                                                               | 36                                                               |
|                                    | 300                       | 35.19                        | 0.13                                                                          | 29 (-1; -3) dB                                                  | NPD                                                     | 36.3                                                               | 38.3                                                             |

The technical data is valid for a face thickness of Ext / Int. 0.60 / 0.50 mm

## Fire Performance

Product technical specifications relating to fire classification are available from Paroc Panel System Technical Support.

| Module width / Cover width [mm] | Nominal Thickness [mm] | Reaction to Fire | Fire Resistance - Internal Wall - Horizontal | Fire Resistance - Internal Wall - Vertical |
|---------------------------------|------------------------|------------------|----------------------------------------------|--------------------------------------------|
| 1,200 / 1,196                   | 80                     | B-s1, d0         | NPD                                          | NPD                                        |
|                                 | 100                    | B-s1, d0         | NPD                                          | NPD                                        |
|                                 | 120                    | B-s1, d0         | NPD                                          | NPD                                        |
|                                 | 150                    | B-s1, d0         | NPD                                          | NPD                                        |
|                                 | 175                    | B-s1, d0         | NPD                                          | NPD                                        |
|                                 | 200                    | B-s1, d0         | NPD                                          | NPD                                        |
|                                 | 240                    | B-s1, d0         | NPD                                          | NPD                                        |
|                                 | 300                    | B-s1, d0         | NPD                                          | NPD                                        |

<sup>1</sup> See details in the relevant classification reports and/or in technical documentation available on request.

<sup>3</sup> Class is not defined in standard EN 13501-2 for this application, but the product meets its criteria.

## Dimensions

### Length

|                                     |            |
|-------------------------------------|------------|
| Shorter lengths (non-standard) [mm] | 200-1499   |
| Standard lengths [mm]               | 1500-9000  |
| Longer lengths (non-standard) [mm]  | 9001-12100 |

Additional costs and transport restrictions may apply for non-standard lengths.

### Width

Module width is 1,200 mm and cover width 1,196 mm.

## Product Tolerances

Product tolerances are measured according to the standard EN 14509:2013.

|                                         |            |                       |
|-----------------------------------------|------------|-----------------------|
| Length tolerance                        | L≤3m, -    | 5 mm                  |
| Length tolerance                        | L≤3m, +    | 5 mm                  |
| Length tolerance                        | L>3m, -    | 10 mm                 |
| Length tolerance                        | L>3m, +    | 10 mm                 |
| Cover width tolerance                   | -          | 2 mm                  |
| Cover width tolerance                   | +          | 2 mm                  |
| Thickness tolerance                     | -          | 2 mm                  |
| Thickness tolerance                     | +          | 2 mm                  |
| Thickness tolerance                     | D>100mm, - | 2 %                   |
| Thickness tolerance                     | D>100mm, + | 2 %                   |
| Deviation from squareness               |            | 0.006 x w             |
| Deviation from straightness (on length) |            | 1mm/m, maximum 5 mm/m |

## Materials

### Insulation Core

Paroc stone wool insulation core with a Thermal Conductivity (λ) of 0.040 W/m·K according to EN 14509:2013.

### External facing

The standard thicknesses of the coil coated steel sheet are 0.5 mm and 0.6 mm.

Standard coating: Spectrum®, PVDF.

### Internal facing

The standard thicknesses of the coil coated steel sheet are 0.5 mm and 0.6 mm.

On request also other steel sheet thicknesses are available.

Standard coating: Polyester SP25.

### Seals

Factory applied side joint seals. All side joints have a factory applied seal fitted into the groove to automatically seal the joint between panels.

Panels intended for external walls are usually delivered with an on the production line installed sealant in internal and external grooves.

Panels for high or vertically installed facades always have to be provided with sealant in both grooves of the joint.

### Profiles

For available profiles, see the supplementary overview available further down.

### Colours

For available colours, please refer to the "Colour Indications" brochure.

## Mechanical Resistance

For load / span tables, please refer to the "Technical Guide" brochure or contact Paroc Panel System Technical Support.

## Environmental Performance

Facilities located in Parainen generate renewable energy onsite which contributes to that sites energy mix.

Paroc Panel Systems procure steel that is made from 15-25% recycled content.

Paroc Panel Systems directly contribute to BREEAM® and LEED® credits.

## Quality

Paroc Panel System products are manufactured from the highest quality materials, using state of the art production equipment to rigorous quality control standards, complying with ISO 9001:2015 Quality management systems standards.

The panels are also being manufactured under Environmental management system certification EN ISO 14001:2015, Energy management system certification EN ISO 50001:2018 and safety certification EN ISO 45001:2018.

## Packing

### Standard Packing - Road Transportation

AST® S Acoustic Wall Panels stacked weather side to internal side.

The top, bottom, sides and ends are protected with foam and the entire palette is wrapped with protection film.

The number of panels in a pack depends on panel thickness and length.

Quantities are reduced for exceptionally long panels.

| Nominal Thickness<br>[mm] | 80 | 100 | 120 | 150 | 175 | 200 | 240 | 300 |
|---------------------------|----|-----|-----|-----|-----|-----|-----|-----|
| Number of Panels          | 15 | 12  | 10  | 8   | 7   | 6   | 5   | 4   |

## Delivery

All deliveries, unless indicated otherwise, are by road transport to a project site. Off-loading is the responsibility of the client.

### Sea Freight

Fully timber crated packs are available on projects requiring delivery by sea freight shipping, at additional costs.

Alternatively, steel containers can be used. Special loading charges apply.

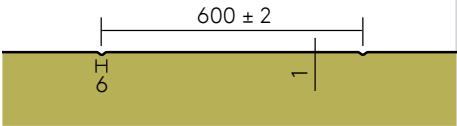
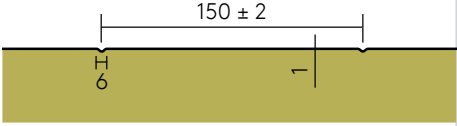
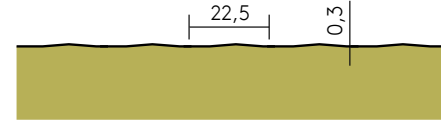
## Site Storage & Installation

Site storage and installation instructions are available from Paroc Panel System Technical Support.

## Warranty

Paroc Panel System's warranty are individually assessed for each project, especially depending on the aggressiveness of the environment and the type of surface treatment chosen.

## Profiles

| Profile            | External                                                                           | Internal                                                                           |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1 - Line 600       |   |                                                                                    |
| 5 - Line 200       |   |                                                                                    |
| 7 - Line 150       |   |                                                                                    |
| F - Smooth         |   |  |
| M - Micro profiled |  |                                                                                    |

## Contact Details



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Parainen, Fi-21600



[Click here](#) for the most up to date version of this document.

The information provided in this datasheet is accurate as of its date of publication and represents our commitment to quality and transparency. However, Paroc Panel System reserve the right to modify product specifications without prior notice to reflect advancements or improvements.

For applications not explicitly covered within this datasheet, consultation with our Technical Advisory Service is strongly advised to ensure the product meets your specific requirements.

Users are responsible for verifying the product's suitability for their particular needs and for ensuring compliance with all applicable laws and regulations.

For the most up to date and comprehensive product details, always refer to the latest version of this datasheet by scanning the QR code above.

We reserve the right to update this datasheet, and any other informational materials, at our discretion and without notice.

For the latest information, please visit: [www.parocpanels.com](http://www.parocpanels.com)