

Product Data Sheet Definition

A technical reference document that consolidates a product's key characteristics, available options, dimensions, performance data, aesthetic attributes, certifications, compliance information, and supporting resources. It is intended to provide architects, designers, contractors, and other project teams with the information needed to evaluate, specify, approve, and appropriately use the product.

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What is Abodo Vaaro® IR

Abodo Vaaro® IR (Vertical Grain) is created from thermally modified, rapidly renewable plantation timber that is pressure impregnated with a highly leach-resistant fire-retardant system. The thermal modification process and laminated vertical grain structure provide high durability, enhanced stability, and a consistent color range.

Abodo Vaaro® IR

Abodo Vaaro® IR is available in a range of products that combine color and surface texture to create distinct visual and tactile expressions. All products are Fine Sawn.

Fine Sawn

A lightly textured surface with subtle saw marks that add natural variation while maintaining a relatively refined appearance.



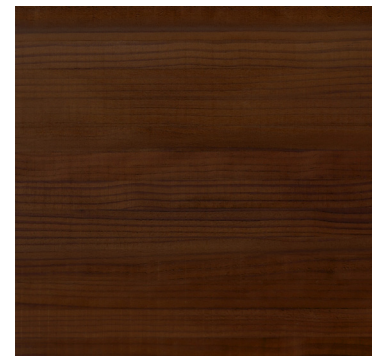
JANI
Exterior and interior Cladding



MINOF
Exterior and Interior Cladding



OKMOK
Exterior and Interior Cladding



SAJAMA
Exterior and Interior Cladding

Attributes | “What is it?”

Fixed, intrinsic facts about the product’s identity. These fields do not change based on use, environment, or application context.

Field	Data
Species	Radiata Pine (Pinus radiata)
Grade	Clear Vertical Grain (CVG)
Process	Laminted vertical grain, thermally modified on 230°C schedule, Pressure impregnated with Vaaro® thermosetting polymeric fire-retardant resin system (KDAT - Kiln dried after treatment)
Dimensions	Tongue & Groove (T&G): +/- 18mm (11/16”) thick x +/- 5” wide Applicable for T&G: • 6’-17.7’ random lengths • Inquire about custom dimensions
Moisture Content (MC)	Average 7.5% at equilibrium, (20°C, 65% RH) Standard pin meters may read +/- 5% due to modification of wood fiber
Average density	.65 g/cm ³ (40.6 lb/ft ³) at equilibrium
pH (approximate)	5.5

Performance | “How does it perform?”

Measurable, testable outcomes under real-world conditions. Ratings, test values, and expected behavior over time.

Field	Data
Brinell Hardness	25.0 N/mm ² (EN 153)
Dimentional Movement	Anti Swell Efficiency (Tangential) = 21.4% (DIN 52184); Anti Swell Efficiency (Radial) = 17.1% (DIN 52184)
Durability Class	Class 1, Class 1 (EN350-1 EN 350:2016, EN 113-2:2020 + water leaching procedure, EN 84:2020)
Warranty	40 year limited durability warranty
Modulus of Elasticity	14.831 MPa (=14.831 N/mm ² , EN 408)
Modulus of Rupture	51.9 MPa (=51.9 N/mm ² , EN 408)
Fire Rating	Class A (ASTM E84 and E2768-11:2018 extended to 30min, after standard rain test ASTM D 2898-10 Method A)

Aesthetics | “What does it look like?”

Sensory and visual qualities a designer or specifier evaluates when selecting a product.

Field	Data
Visual Grade Characteristics	Clear Vertical Grain (CVG) Best Face: • Birds eye fleck - medium • Sap stain - insufficient to obscure grain • Edge defect - one tight knot, resin or bark pocket in bottom two thirds of edge only • Very limited bow, crook, cup, twist • In 20% of boards one defect on best face as follows: - Small tight knot (<3/16" diameter) - Resin or bark pocket (<1/8" wide x 1-1/4" long) - Kiln check (<1/32" x 2" long) * Reverse face will may contain slightly more character and defects; Cladding profiles may contain skip marks and up to 5/32" undersized lamina on reverse face
Finish type	Oil: MINOF Waterborne Oil: JANI, OKMOK, SAJAMA
Texture	Finesawn: JANI, MINOF, OKMOK, SAJAMA
Weathering Behavior	Color and tone will naturally evolve with UV and weather exposure; the rate and appearance of weathering vary by finish, orientation, and environmental conditions. Weathering commonly results in lightening, graying and slight expression of purple undertones along grain lines. See RESAWN's Weathering + Maintenance Guidelines for product-specific guidance.

Certifications, Compliance + Sustainability | “What supports it?”

Third party certifications, testing, code-related documentation, and environmental declarations used to support specification and compliance review.

Field	Data
WUI	Ignition Resistant Vaaro® IR has achieved Class A classification when tested to ASTM E84 and E2768-11(2018) extended to 30 minutes proceeded by accelerated weathering according to ASTM D 2898-10 Method A.
FSC Certification	RESAWN is FSC® Chain of Custody certified and supplies Vaaro® IR with an FSC® Mix Credit claim. - Certificate Code: SCS-COC-005058 - Trademark License Code: FSC-C122513
LEED Contribution	May contribute to LEED v5 Building Product Selection + Procurement through eligible FSC documentation. Interior applications may also contribute to Low Emitting Materials requirements, subject to the selected finish system and project specific criteria. Applicable to LEED v5 BD+C and ID+C. Project teams are responsible for determining credit applicability and documenting compliance.
Plantation Sourcing	Wood stock for Vaaro® IR is sourced from FSC® certified plantation forests in New Zealand
Adhesive Content	Polyurethane Exterior Type 1 (AS/NZS4364). Approved for Service Class 3 (exposed exterior applications) D4 (EN204) - Formaldehyde Emissions: 0.2 mg/L JIS A1460 – Super E0/F****, E1 (EN717-1) - VOC Emissions: TVOC – <0.5 mg/m3 – PASS (CDPH-IAQ V1.1 2010, CDPH-IAQ V1.2 2017 and ISO 10580:2010)
Finish VOC Content	Zero VOC and Low VOC finishes based on current finish documentation. - Zero VOC: MINOF - Low VOC (50 g/L): JANI, OKMOK, SAJAMA

Special Notes – Support and Services

Supporting References

- Material Characteristics + Expectations Guide: General information on natural wood characteristics, variation, and expected appearance.
- Exterior Wood Cladding Installation Guide: Installation requirements and recommendations for exterior applications.
- Interior Wall Cladding Installation Guides: Separate guidance for Charred and Prefinished products.
- Maintenance Guides: Cleaning, recoating, touch up, and end sealer guidance, as applicable to the selected product and finish.
- Weathering Guides: Product specific guidance on expected color and appearance changes from UV exposure and environmental conditions.
- 3 Part Specification: Project specific specification language prepared by RESAWN upon request to support open bid or closed bid procurement.

Services

- Design Assist Services: Fee-based, project-specific technical and design support available through RESAWN for product integration, detailing, constructability, attachment strategy, mockup planning, specification support, and related project needs.

Special Notes – Product

Acclimation

- For interior applications, acclimate Vaaro® IR for at least 5 days by storing it in the humidity conditions in which it will be installed. The face of the cladding should be protected during storage, but any tight wrap should be removed.

Handling

- Vaaro® IR cladding and saw dust from the product should be handled similarly to pressure-treated (MCA impregnated) wood products. Vaaro® IR cladding should not be used where it may come into contact with drinking water, except for uses involving incidental contact such as with freshwater docks. Do not use Vaaro® IR in any application where it may become a component of food, animal feed or bee hives.

Consultation

- Consult with a fire engineer and design professional as needed before specification or installation of the product for projects with specific fire-related code requirements.

Standard Dimensions + Milling | Custom dimensions and milling may be available upon request

Drawings shown below are not to scale and are provided for reference only to illustrate general configuration and design intent.

Tongue and Groove (T&G): +/- 18mm (11/16") thick x +/- 5" wide x 6'-17.7' random lengths

