

OMNIROC®

GENERAL PRODUCT INFORMATION

Appearance:

OMNIROC is classified as cement bonded particle board composed of Portland cement and mineralized wood particles. OMNIROC has been manufactured to achieve superior tolerances and results in a light gray surface appearance, smooth on all surfaces. When cut or broken, no wood particles are evident within the cement matrix. OMNIROC can be factory sealed on both sides and all edges with a clear acrylic based paint sealer for exterior applications.

Edge Treatments:

Square edges are standard on all sheets of OMNIROC. Special orders are available for chamfered or beveled edges. Thickness of 16mm (5/8") and higher are also available with tongue and groove or half-lap edges.

Sizes:

Standard production is 48" x 72" and 48" x 96". Maximum width available is 48" with a maximum length of 120". Stocked sizes are 48" x 72" and 48" x 96". Any lengths greater than 96" are special factory order. Any widths and lengths less than standard production can also be custom produced on special orders.

Thickness:

Standard thicknesses are metric with nominal inch equivalents shown in parentheses: 5mm (3/16"), 6mm (1/4"), 8mm (5/16") 10mm (3/8"), 12mm (1/2"), and 19mm (3/4"). Additional thicknesses available on factory direct shipments are 16mm (5/8"), 22mm (7/8"), 25mm (1"). Oversize thicknesses of 28mm (1-1/8"), 36mm (1-1/4"), and 38mm (1-1/2") and can be custom produced on special order.

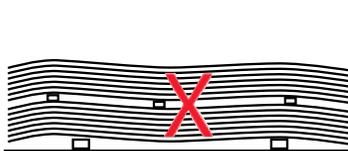
Tolerances:

Every sheet of OMNIROC is carefully manufactured to comply with strict tolerances without the need for further calibration or additional processing. You will not find odd or random measurements or uneven thicknesses in our product.

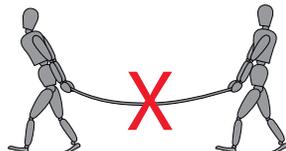
Width and length = (+/-) 0.1mm, Thickness = (+/-) 0.1mm

Transport:

OMNIROC is delivered on factory pallets of 20 to 40 sheets each, depending on thickness, and are wrapped with plastic sheet protection and edge protection against surface damage for side fork lift handling. When transporting loose sheets by truck, they must be laid flat, on level supports no more than 32" on centers fully protected against edge damage, and covered with tarps. When hand carrying single sheets, they must be carried on edge. (See examples below)



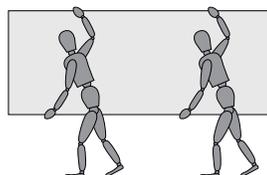
Wrong



Wrong



Right



Right

Storage:

OMNIROC should be stored indoors and laid flat on level supports no more than 32" on centers. Do not store sheets upright or on edges. If temporarily stored outdoors, a protective covering must be secured over the pallets. If not on original factory pallets, do not stack more than 2 pallets of 40 or 80 sheets high.

Acclimatization:

OMNIROC sheets are delivered from the factory with a moisture content of 4.5% (+/- 1%) and the sheets are stable at a temperature of 68° F. (20° C) with relative humidity of 50-60%. OMNIROC sheets are minimally water vapor permeable and will adapt slightly to the ambient humidity level in which they are stored. OMNIROC sheets should be allowed to acclimatize for 24-48 hours before installation in the working environment of their intended use. Do not install OMNIROC sheets if they are wet or damp.

Dimensional Stability:

Unsealed OMNIROC sheets are marginally vapor permeable to atmospheric humidity. Extreme variations of humidity and temperature may manifest slight dimensional changes in the sheets which should be considered in the design of intended applications. It is recommended to design for joints that will allow for slight movement.

Cutting:

OMNIROC is easily cut and installed using ordinary carpentry tools. Use common hand saws, jig saws with coarse blades, or circular power saws with 18 tooth cross-cut blades. For production or repetitive cutting process, a carbide tooth blade is recommended. Best results are achieved with a standard masonry blade. Cut in well ventilated area.

Fastening:

OMNIROC can be screwed or nailed to framing member supports using ordinary carpentry tools. Approved fasteners should be treated for corrosion resistance. OMNIROC contains Portland cement which is corrosive to unprotected metals. In conjunction with fasteners, an approved, non-shrinking polyurethane adhesive may be used where required.

Uses / Applications:

OMNIROC is a structural noncombustible sheathing used to construct durable fire-resistant roofs, floors, and walls.

Roofs:

When designing a roof assembly, OMNIROC provides a noncombustible solution to problems with fire-retardant treated (FRT) plywood. It can be used as a replacement to poured concrete over metal deck while maintaining all noncombustible assembly characteristics.

Floors:

OMNIROC has outstanding structural load carrying capacity and can be used as the load carrying floor deck in thicknesses of 3/4" or more and over maximum spacing of 24" on center floor framing supports.

Walls:

Interior and exterior walls and partitions, fire rated assemblies and elevator shafts, as a substrate for brick veneer, or Structural Insulated Panel Systems.

Fire Resistance:

Per ASTM E84, OMNIROC is rated as Class A for zero flame spread and zero smoke development, and is noncombustible, having passed the requirements of the modified ASTM E136 for a duration of 10 minutes.