

Springfield Particleboard: **stability** *versatility* workability

innovation
creativity
technical
expertise
manufacturing
excellence

Springfield Particleboard

Springfield particleboard offers an impressive line of panel products. Manufactured primarily from Douglas Fir, it offers dimensional stability, higher bending properties and enhanced core strength.

Environmental Stewardship

SierraPine continues our long-term commitment to the responsible use of renewable resources. Among the first in the industry to receive certification at all of our manufacturing facilities SierraPine has been awarded certification by the following independent third-parties for using 100% recovered and recycled wood fiber content in all of our composite wood panel products.

- Composite Panel Association's Environmentally Preferable Product (EPP) - Grademark Certification Program
- Scientific Certification Systems (SCS)
- LEED Building Rating System by USGBC - Materials and Resources

Features/Benefits

Products

- M-S, M-2 or M-3 Industrial – Ideal for underlayment and industrial applications including cabinetry, millwork, and lamination
- Countertop Quality – Slightly higher density to ensure good bending strength and tight core consolidation for edge machining
- SierraPine can supply a range of products which meet the requirements of ANSI A208.1-1999 for grades M-1, M-S, M-2 and M-3

Performance Features

- Uniform thickness
- Smooth surface texture
- Ideal for high- and low- pressure laminates, wood veneers, vinyls, thin overlays and readily accepts paint and varnish

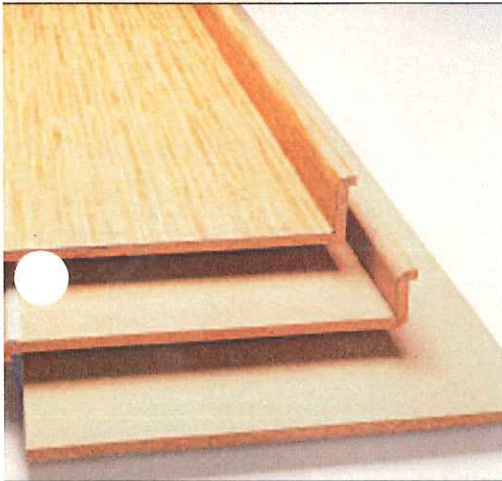
Mill Capabilities

- Sizes:
 - Standard 4' width comes in lengths of 6', 8', 10' and 12'
 - Standard 5' width comes in lengths of 6', 8', 10' and 12'
 - Other sizes available, minimums may apply
- Cut-to-size available*
- Special packaging available*

*Contact your sales representative for details.

Applications

- Countertops
- Underlayment
- Cabinetry
- Furniture components



SierraPine[™]
COMPOSITE SOLUTIONS

Handling/Installation

Springfield particleboard should be stored indoors on a flat, level surface with adequate support to prevent sagging. Springfield particleboard will readily accept and hold hardware including staples, screws and other fasteners.

Technical Data

Average Properties for 3/4"

| Imperial Units | | | |
|---------------------------------|----------------------------|----------------------------|----------------------------|
| Thicknesses from 3/8" – 1 1/16" | | | |
| | M3 Industrial | M2 Industrial | Countertop |
| Density | 47.1 lb/ft ³ | 45.0 lb/ft ³ | 47.2 lb/ft ³ |
| Internal Bond | 91 lb/in ² | 83 lb/in ² | 105 lb/in ² |
| Modulus of Rupture | 2561 lb/in ² | 2255 lb/in ² | 2517 lb/in ² |
| Modulus of Elasticity | 436,400 lb/in ² | 377,400 lb/in ² | 432,000 lb/in ² |
| Hardness | 700 lbs | 600 lbs | 700 lbs |
| Screw Holding, Face | 311 lbs | 272 lbs | 304 lbs |
| Screw Holding, Edge | 251 lbs | 230 lbs | 253 lbs |
| Thickness Tolerance | ± 0.005 in | ± 0.005 in | ± 0.005 in |
| Length/Width Tolerances | ± 1/16" | ± 1/16" | ± 1/16" |
| Squareness Tolerance | ± 1/16" | ± 1/16" | ± 1/16" |
| Squareness of Cut | ± 1/16" | ± 1/16" | ± 1/16" |

| Metric Units | | |
|------------------------------|------------------------|------------------------|
| Thicknesses from 9 – 36.5 mm | | |
| | M3 Industrial | M2 Industrial |
| Density | 755 kg/m ³ | 721 kg/m ³ |
| Internal Bond | 0.63 N/mm ² | 0.57 N/mm ² |
| Modulus of Rupture | 17.7 N/mm ² | 15.5 N/mm ² |
| Modulus of Elasticity | 3009 N/mm ² | 2602 N/mm ² |
| Hardness | 3113 N | 2669 N |
| Screw Holding, Face | 1383 N | 1210 N |
| Screw Holding, Edge | 1117 N | 1023 N |
| Thickness Tolerance | ± .102 mm | ± .102 mm |
| Length/Width Tolerances | ± 1.59 mm | ± 1.59 mm |
| Squareness Tolerance | ± 1.59 mm | ± 1.59 mm |
| Squareness of Cut | ± 1.59 mm | ± 1.59 mm |

| Other Data | |
|----------------------|--|
| Moisture Content | 8% maximum at time of shipment from mill |
| Linear Expansion | 0.35% maximum average |
| Sanding – Final Grit | 100 |

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Warning: Springfield particleboard contains formaldehyde, which may cause health problems including eye and respiratory irritation and may aggravate respiratory conditions or allergies. It should not be used in enclosed areas where formaldehyde could be a problem unless properly sealed. Information on effective sealing methods and materials is available from SierraPine.

