

# RANGER BOARD PLATINUM MDF SPECIFICATIONS



MDF Properties	5/8"-7/8" (Imperial)	15MM-24MM (Metric)
Density	50 pcf	801 kg/m <sup>3</sup>
Internal Bond	175 psi	1.21 N/mm <sup>2</sup>
Modulus of Rupture	6,000 psi	41.37 N/mm <sup>2</sup>
Modulus of Elasticity	600,000 psi	4,137 N/mm <sup>2</sup>
Screw Holding-Face	450 lbs	2,000 N
Screw Holding-Edge	450 lbs	2,000 N
Thickness Swell	7%	7%
Linear Expansion	0.3%	0.3%
Thickness Tolerance	± 0.005 in.	± 0.127mm
Moisture Content	4-6%	4-6%

- Ranger Board is certified with:
  - Composite Panel Association Eco-Certified Composite Grademark Certification Program (ECC 4-19) and ANSI A208.2 – 2016
  - Scientific Certification Services (SCS – MC – 01444)
  - Forest Stewardship Council Standard for Chain of Custody Certification (FSC-STD-40-004 v2-1) and the Standard for Company Evaluation of FSC Controlled Wood (FSC-STD-40-005 v2-1)
- Formaldehyde emissions: Ranger Board MDF – EPA TSCA Title VI, CARB ATCM 93120.
- Surface Burning Characteristics: Testing completed on Ranger Board MDF, show material being Class III or C in accordance with ULC Standard CAN/ULC-S102.
- Standard finish 150 grit
- Finished sizes available:
  - Width: 48" to 73"
  - Length: 48" to 205"
  - Other sizes available upon request.
- All physical property values represent the compiled average of quality assurance testing conducted on Ranger Platinum MDF.
- Ranger Platinum MDF complies with ANSI A208.2 – 2016 using the prescribed test methods in ASTM D-1037.
- Ranger Platinum MDF is manufactured from 100% Western white softwoods. Appearance is a consistent light sandy color.

Ranger Board, a Division of West Fraser Mills Ltd.  
1250 Brownmiller Rd.  
Quesnel, B.C. V2J 6P5  
General sales phone #: 250-992-9254  
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(2019)



**West Fraser**

# RANGER BOARD

## PREMIUM PLUS MDF SPECIFICATIONS



MDF Properties (Imperial)	3/8" - 1/2"	9/16" - 7/8"	15/16" - 1 1/4"
Density	49 pcf	49 pcf	48 pcf
Internal Bond	140 psi	140 psi	130 psi
Modulus of Rupture	5,000 psi	5,000 psi	5,000 psi
Modulus of Elasticity	500,000 psi	500,000 psi	500,000 psi
Screw Holding-Face	450 lbs	450 lbs	450 lbs
Screw Holding-Edge	N/A	425 lbs	425 lbs
Thickness Swell	0.065 in.	7%	4%
Linear Expansion	0.3%		
Thickness Tolerance	± 0.005 in.		
Moisture Content	4-6%		

MDF Properties (Metric)	9mm-12mm	14mm-22mm	23mm-32mm
Density	785 kg/m <sup>3</sup>	785 kg/m <sup>3</sup>	769 kg/m <sup>3</sup>
Internal Bond	0.97 N/mm <sup>2</sup>	0.97 N/mm <sup>2</sup>	0.90 N/mm <sup>2</sup>
Modulus of Rupture	34.5 N/mm <sup>2</sup>	34.5 N/mm <sup>2</sup>	34.5 N/mm <sup>2</sup>
Modulus of Elasticity	3,450 N/mm <sup>2</sup>	3,450 N/mm <sup>2</sup>	3,450 N/mm <sup>2</sup>
Screw Holding-Face	2,000 N	2,000 N	2,000 N
Screw Holding-Edge	N/A	1,890 N	1,890 N
Thickness Swell	1.65mm	7%	4%
Linear Expansion	0.3%		
Thickness Tolerance	± 0.127mm		
Moisture Content	4-6%		

- Ranger Board is certified with:
  - Composite Panel Association Eco-Certified Composite Grademark Certification Program (ECC 4-19) and ANSI A208.2 – 2016
  - Scientific Certification Services (SCS – MC – 01444)
  - Forest Stewardship Council Standard for Chain of Custody Certification (FSC-STD-40-004 v2-1) and the Standard for Company Evaluation of FSC Controlled Wood (FSC-STD-40-005 v2-1)
- Formaldehyde emissions: Ranger Board MDF – EPA TSCA Title VI, CARB ATCM 93120.
- Surface Burning Characteristics: Testing completed on Ranger Board MDF, show material being Class III or C in accordance with ULC Standard CAN/ULC-S102.
- Standard finish 150 grit
- Finished sizes available:
  - Width: 48" to 73"
  - Length: 48" to 205"
  - Other sizes available upon request.
- All physical property values represent the compiled average of quality assurance testing conducted on Ranger Premium Plus MDF.
- Ranger Premium Plus MDF complies with ANSI A208.2 – 2016 using the prescribed test methods in ASTM D-1037.
- Ranger Premium Plus MDF is manufactured from 100% Western white softwoods. Appearance is a consistent light sandy color.

Ranger Board, a Division of West Fraser Mills Ltd.  
 1250 Brownmiller Rd.  
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 (2019)



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# RANGER BOARD PREMIUM MDF SPECIFICATIONS



MDF Properties (Imperial)	3/8" - 1/2"	9/16" - 7/8"	15/16" - 1 1/4"
Density	48 pcf	47 pcf	46 pcf
Internal Bond	110 psi	110 psi	105 psi
Modulus of Rupture	4,500 psi	4,500 psi	4,000 psi
Modulus of Elasticity	450,000 psi	450,000 psi	450,000 psi
Screw Holding-Face	325 lbs	325 lbs	315 lbs
Screw Holding-Edge	N/A	300 lbs	300 lbs
Thickness Swell	0.065 in.	7%	4%
Linear Expansion	0.3%		
Thickness Tolerance	± 0.005 in.		
Moisture Content	4-6%		

MDF Properties (Metric)	9mm-12mm	14mm-22mm	23mm-32mm
Density	769 kg/m <sup>3</sup>	753 kg/m <sup>3</sup>	737 kg/m <sup>3</sup>
Internal Bond	0.76 N/mm <sup>2</sup>	0.76 N/mm <sup>2</sup>	0.72 N/mm <sup>2</sup>
Modulus of Rupture	31.03 N/mm <sup>2</sup>	31.03 N/mm <sup>2</sup>	27.6 N/mm <sup>2</sup>
Modulus of Elasticity	3,103 N/mm <sup>2</sup>	3,103 N/mm <sup>2</sup>	3,103 N/mm <sup>2</sup>
Screw Holding-Face	1,445 N	1,445 N	1,400 N
Screw Holding-Edge	N/A	1,334 N	1,334 N
Thickness Swell	1.65mm	7%	4%
Linear Expansion	0.3%		
Thickness Tolerance	± 0.127mm		
Moisture Content	4-6%		

- Ranger Board is certified with:
  - Composite Panel Association Eco-Certified Composite Grademark Certification Program (ECC 4-19) and ANSI A208.2 – 2016
  - Scientific Certification Services (SCS – MC – 01444)
  - Forest Stewardship Council Standard for Chain of Custody Certification (FSC-STD-40-004 v2-1) and the Standard for Company Evaluation of FSC Controlled Wood (FSC-STD-40-005 v2-1)
- Formaldehyde emissions: Ranger Board MDF – EPA TSCA Title VI, CARB ATCM 93120.
- Surface Burning Characteristics: Testing completed on Ranger Board MDF, show material being Class III or C in accordance with ULC Standard CAN/ULC-S102.
- Standard finish 150 grit
- Finished sizes available:
  - Width: 48" to 73"
  - Length: 48" to 205"
  - Other sizes available upon request.
- All physical property values represent the compiled average of quality assurance testing conducted on Ranger Premium MDF.
- Ranger Premium MDF complies with ANSI A208.2 – 2016 using the prescribed test methods in ASTM D-1037.
- Ranger Premium MDF is manufactured from 100% Western white softwoods. Appearance is a consistent light sandy color.

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 (2019)



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# RANGER BOARD

## STANDARD MDF SPECIFICATIONS



MDF Properties (Imperial)	7/16" - 1/2"	9/16" - 7/8"	15/16" - 1 1/4"
Density	47pcf	46 pcf	45 pcf
Internal Bond	95 psi	95 psi	95 psi
Modulus of Rupture	4,000 psi	4,000 psi	4,000 psi
Modulus of Elasticity	400,000 psi	400,000 psi	400,000 psi
Screw Holding-Face	320 lbs	320 lbs	320 lbs
Screw Holding-Edge	N/A	300 lbs	300 lbs
Thickness Swell	0.065 in.	< 10%	< 10%
Linear Expansion	0.3%		
Thickness Tolerance	± 0.005 in.		
Moisture Content	4-6%		

MDF Properties (Metric)	9mm-12mm	14mm-22mm	23mm-32mm
Density	753 kg/m <sup>3</sup>	737 kg/m <sup>3</sup>	721 kg/m <sup>3</sup>
Internal Bond	0.66 N/mm <sup>2</sup>	0.66 N/mm <sup>2</sup>	0.66 N/mm <sup>2</sup>
Modulus of Rupture	27.58 N/mm <sup>2</sup>	27.58 N/mm <sup>2</sup>	27.58 N/mm <sup>2</sup>
Modulus of Elasticity	2,758 N/mm <sup>2</sup>	2,758 N/mm <sup>2</sup>	2,758 N/mm <sup>2</sup>
Screw Holding-Face	1,420 N	1,420 N	1,420 N
Screw Holding-Edge	N/A	1,330 N	1,330 N
Thickness Swell	1.65mm	< 10%	< 10%
Linear Expansion	0.3%		
Thickness Tolerance	± 0.127mm		
Moisture Content	4-6%		

- Ranger Board is certified with:
  - Composite Panel Association Eco-Certified Composite Grademark Certification Program (ECC 4-19) and ANSI A208.2 – 2016
  - Scientific Certification Services (SCS – MC – 01444)
  - Forest Stewardship Council Standard for Chain of Custody Certification (FSC-STD-40-004 v2-1) and the Standard for Company Evaluation of FSC Controlled Wood (FSC-STD-40-005 v2-1)
- Formaldehyde emissions: Ranger Board MDF – EPA TSCA Title VI, CARB ATCM 93120.
- Surface Burning Characteristics: Testing completed on Ranger Board MDF, show material being Class III or C in accordance with ULC Standard CAN/ULC-S102.
- Standard finish 150 grit
- Finished sizes available:
  - Width: 48" to 73"
  - Length: 48" to 205"
  - Other sizes available upon request.
- All physical property values represent the compiled average of quality assurance testing conducted on Ranger Standard MDF.
- Ranger Standard MDF complies with ANSI A208.2 – 2016 using the prescribed test methods in ASTM D-1037.
- Ranger Standard MDF is manufactured from 100% Western white softwoods. Appearance is a consistent light sandy color.

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