

CERTIFICATE OF CONFORMITY

This is to certify that

Shandong Fushi Wood Co., Ltd

Is certified to manufacture products to:

AS/NZS 4357.0:2022 Structural laminated veneer lumber - Specifications



CMI ProdCert
PC10223

Certificate Holder

Shandong Fushi Wood Co., Ltd
South Ring Road, North Bohai Avenue
To The South, Yangkou Town,
Shouguang City, Shandong, China
262700 China

Product Description

Laminated Veneer Lumber (LVL)

Product Purpose or Use

Laminated Veneer Lumber (LVL)

Subject to the following Conditions & Limitations:

Nil

Certificate No: PC10223

Originally Certified: 19/03/2026

Updated: 19/03/2026

Expires: 19/03/2031

Talissa Ireland
CMI Certification Pty Ltd



Certification Body



CMI Certification Pty Ltd
ABN: 81 663 250 815
JAS-ANZ Accreditation No.
Z4450210AK
PO Box 273, Palmwoods Qld 4555,
Australia
Ph: +61 7 5445 2199
E: office@cmicert.com.au
W: <https://cmicert.com.au/>

- The Certificate is issued to and relates to the certification of the described product(s) to the requirements of the described relevant Standard(s) and is subject to the conditions and limitations as described hereupon. CMI Certification Pty Ltd (CMI) is an Accredited Product Certification Body and undertakes certification in accordance with ISO/IEC 17065. The CMI ProdCert Scheme is an ISO/IEC 17067 Type 5 Scheme applicable to products seeking to show conformity to a particular Standard. This certification is to be read, considered and used as a whole document and may only be reproduced in its entirety. For further information contact the certificate holder. Nothing in this certificate should be construed as a warranty or guarantee by CMI, and the only applicable warranties or guarantees will be those provided by the Certificate Holder. CMI by granting this certification shall have no responsibility or liability for infringement of, any patent or other proprietary right.
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AS/NZS 4357.0:2022 Structural laminated veneer lumber - Specifications

Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 27 – Thickness: 45mm - Width: 90mm																				
Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f_b' [MPa]	On Edge f_s' [MPa]	On Edge f_p' [MPa]	On Edge f_{sj}' [MPa]	On Flat E [MPa]	On Flat f_b' [MPa]	On Flat f_s' [MPa]	On Flat f_p' [MPa]	On Flat f_{sj}' [MPa]	Axial f_t' [MPa]	Axial f_c' [MPa]	Date Endorsed
Shandong Fushi LVL	90x45 F17	General Structural Use	F17	A	Phenolic Formaldehyde Resin	-	E ₀	17617	82.9	6.3	13.0	-	14627	80.0	5.5	6.0	-	55.1	50.5	19/03/2026

Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 37 – Thickness: 65mm - Width: 95mm																				
Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f_b' [MPa]	On Edge f_s' [MPa]	On Edge f_p' [MPa]	On Edge f_{sj}' [MPa]	On Flat E [MPa]	On Flat f_b' [MPa]	On Flat f_s' [MPa]	On Flat f_p' [MPa]	On Flat f_{sj}' [MPa]	Axial f_t' [MPa]	Axial f_c' [MPa]	Date Endorsed
Shandong Fushi LVL	95x65 F17	General Beam Use on Edge Only	F17	A	Phenolic Formaldehyde Resin	-	E ₀	15949	76.4	6.6	10.2	-	-	-	-	-	-	-	-	19/03/2026

Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 44 – Thickness: 77mm - Width: 150mm																				
Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f_b' [MPa]	On Edge f_s' [MPa]	On Edge f_p' [MPa]	On Edge f_{sj}' [MPa]	On Flat E [MPa]	On Flat f_b' [MPa]	On Flat f_s' [MPa]	On Flat f_p' [MPa]	On Flat f_{sj}' [MPa]	Axial f_t' [MPa]	Axial f_c' [MPa]	Date Endorsed
Shandong Fushi LVL	150x77 F17	General Beam Use on Edge Only	F17	A	Phenolic Formaldehyde Resin	-	E ₀	15158	68.7	5.5	9.2	-	-	-	-	-	-	-	-	19/03/2026

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Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 22 – Thickness: 35mm - Width: 90mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	90x35 F17	General Structural Use	F17	A	Phenolic Formaldehyde Resin	-	E ₀	14416	54.9	5.2	10.1	-	14020	69.8	4.8	1.7	-	36.1	36.0	19/03/2026

Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 28 – Thickness: 45mm - Width: 240mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed	
Shandong Fushi LVL	240x45 F17	General Structural Use	F17	A	Phenolic Formaldehyde Resin	-	E ₀	15552	60.8	-	-	-	14329	64.3	-	-	-	-	-	-	19/03/2026

Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 28 – Thickness: 45mm - Width: 300mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	300x45 F17	General Structural Use	F17	A	Phenolic Formaldehyde Resin	-	E ₀	14572	66.1	5.1	10.0	-	14978	73.6	4.6	4.5	-	27.7	32.6	19/03/2026

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Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 19 – Thickness: 35mm - Width: 90mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	90x35 E13/F14	General Structural Use	E13 F14	A	Phenolic Formaldehyde Resin	-	Super E ₀	13100	71.0	6.0	13.1	-	16274	77.8	6.7	9.5	-	37.4	38.8	19/03/2026
								Nails			Screws			Bolts						
								Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Perpendicular Face							
								JD5 ⁵	JD5 ⁶	JD5 ⁹	JD5 ¹⁰	JD5 ¹³	JD5 ¹⁴							
								Lateral Parallel Edge	Lateral Perpendicular Edge	Lateral Parallel Edge	Lateral Perpendicular Edge									
								JD5 ⁷	JD5 ⁸	JD5 ¹¹	JD5 ¹²									
								Withdrawal Face	Withdrawal Edge	Withdrawal Face	Withdrawal Edge									
JD5 ¹	JD5 ²	JD5 ³	JD5 ⁴																	

1. Withdrawal Loads for Nails Driven into Face-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
2. Withdrawal Loads for Nails Driven into Edge-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
3. Withdrawal Loads for Screws Driven into Face-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
4. Withdrawal Loads for Screws Driven into Edge-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
5. Lateral Loaded Parallel to Grain, Driven into Face-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
6. Lateral Loaded Perpendicular to Grain, Driven into Face-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
7. Lateral Loaded Parallel to Grain, Driven into Edge-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)

8. Lateral Loaded Perpendicular to Grain, Driven into Edge-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
9. Lateral Loaded Parallel to Grain, Driven into Face-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
10. Lateral Loaded Perpendicular to Grain, Driven into Face-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
11. Lateral Loaded Parallel to Grain, Driven into Edge-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
12. Lateral Loaded Perpendicular to Grain, Driven into Edge-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
13. Lateral Loaded Parallel to Grain, Driven into Face-Bolt (M12 x 150mm)
14. Lateral Loaded Perpendicular to Grain, Driven into Face-Bolt (M12 x 150mm)

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Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 19 – Thickness: 35mm - Width: 120mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	120x35 E13/F14	General Beams Used on Edge Only	E13 F14	A	Phenolic Formaldehyde Resin	-	Super E0	13658	64.6	5.5	15.5	-	-	-	-	-	-	-	-	19/03/2026
								Nails			Screws		Bolts							
								Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Perpendicular Face							
								JD5 ⁵	JD5 ⁶	JD5 ⁹	JD5 ¹⁰	JD5 ¹³	JD5 ¹⁴							
								Lateral Parallel Edge	Lateral Perpendicular Edge	Lateral Parallel Edge	Lateral Perpendicular Edge									
								JD5 ⁷	JD5 ⁸	JD5 ¹¹	JD5 ¹²									
								Withdrawal Face	Withdrawal Edge	Withdrawal Face	Withdrawal Edge									
JD5 ¹	JD5 ²	JD5 ³	JD5 ⁴																	

1. Withdrawal Loads for Nails Driven into Face-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
2. Withdrawal Loads for Nails Driven into Edge-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
3. Withdrawal Loads for Screws Driven into Face-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
4. Withdrawal Loads for Screws Driven into Edge-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
5. Lateral Loaded Parallel to Grain, Driven into Face-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
6. Lateral Loaded Perpendicular to Grain, Driven into Face-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
7. Lateral Loaded Parallel to Grain, Driven into Edge-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)

8. Lateral Loaded Perpendicular to Grain, Driven into Edge-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
9. Lateral Loaded Parallel to Grain, Driven into Face-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
10. Lateral Loaded Perpendicular to Grain, Driven into Face-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
11. Lateral Loaded Parallel to Grain, Driven into Edge-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
12. Lateral Loaded Perpendicular to Grain, Driven into Edge-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
13. Lateral Loaded Parallel to Grain, Driven into Face-Bolt (M12 x 150mm)
14. Lateral Loaded Perpendicular to Grain, Driven into Face-Bolt (M12 x 150mm)

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Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 23 – Thickness: 45mm - Width: 90mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	90x45 E13/F14	General Structural Use	E13 F14	A	Phenolic Formaldehyde Resin	-	Super E ₀	15117	71.9	6.7	12.6	-	15453	69.4	5.2	11.1	-	36.0	40.3	19/03/2026
								Nails			Screws		Bolts							
								Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face							
								JD5 ⁵	JD5 ⁶	JD5 ⁹	JD5 ¹⁰	JD5 ¹³	JD5 ¹⁴							
								Lateral Parallel Edge	Lateral Perpendicular Edge	Lateral Parallel Edge	Lateral Perpendicular Edge									
								JD5 ⁷	JD5 ⁸	JD5 ¹¹	JD5 ¹²									
								Withdrawal Face	Withdrawal Edge	Withdrawal Face	Withdrawal Edge									
JD5 ¹	JD5 ²	JD5 ³	JD5 ⁴																	

1. Withdrawal Loads for Nails Driven into Face-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
2. Withdrawal Loads for Nails Driven into Edge-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
3. Withdrawal Loads for Screws Driven into Face-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
4. Withdrawal Loads for Screws Driven into Edge-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
5. Lateral Loaded Parallel to Grain, Driven into Face-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
6. Lateral Loaded Perpendicular to Grain, Driven into Face-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)

8. Lateral Loaded Perpendicular to Grain, Driven into Edge-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
9. Lateral Loaded Parallel to Grain, Driven into Face-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
10. Lateral Loaded Perpendicular to Grain, Driven into Face-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
11. Lateral Loaded Parallel to Grain, Driven into Edge-Screw (Self-Drilling Screws 100mm x Root Dia: 4.00mm)
12. Lateral Loaded Perpendicular to Grain, Driven into Edge-Screw (Self-Drilling Screws 100mm x Root Dia: 4.00mm)
13. Lateral Loaded Parallel to Grain, Driven into Face-Bolt (M12 x 150mm)

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Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 23 – Thickness: 45mm - Width: 200mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	200x45 E13	General Beams Used on Edge Only	E13	A	Phenolic Formaldehyde Resin	-	Super E ₀	13356	69.8	5.5	15.2	-	-	-	-	-	-	-	-	19/03/2026
								Nails			Screws			Bolts						
								Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Perpendicular Face							
								JD5 ⁵	JD5 ⁶	JD5 ⁹	JD5 ¹⁰	JD5 ¹³	JD5 ¹⁴							
								Lateral Parallel Edge	Lateral Perpendicular Edge	Lateral Parallel Edge	Lateral Perpendicular Edge									
								JD5 ⁷	JD5 ⁸	JD5 ¹¹	JD5 ¹²									
								Withdrawal Face	Withdrawal Edge	Withdrawal Face	Withdrawal Edge									
JD5 ¹	JD5 ²	JD5 ³	JD5 ⁴																	

1. Withdrawal Loads for Nails Driven into Face-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
2. Withdrawal Loads for Nails Driven into Edge-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
3. Withdrawal Loads for Screws Driven into Face-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
4. Withdrawal Loads for Screws Driven into Edge-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
5. Lateral Loaded Parallel to Grain, Driven into Face-Nail (Bullet Head Nails 120mm x Dia: 5.00mm)
6. Lateral Loaded Perpendicular to Grain, Driven into Face-Nail (Bullet Head Nails 120mm x Dia: 5.00mm)
7. Lateral Loaded Parallel to Grain, Driven into Edge-Nail (Bullet Head Nails 120mm x Dia: 5.00mm)

8. Lateral Loaded Perpendicular to Grain, Driven into Edge-Nail (Bullet Head Nails 120mm x Dia: 5.00mm)
9. Lateral Loaded Parallel to Grain, Driven into Face-Screw (Self-Drilling Screws 120mm x Root Dia: 5.00mm)
10. Lateral Loaded Perpendicular to Grain, Driven into Face-Screw (Self-Drilling Screws 120mm x Root Dia: 5.00mm)
11. Lateral Loaded Parallel to Grain, Driven into Edge-Screw (Self-Drilling Screws 120mm x Root Dia: 5.00mm)
12. Lateral Loaded Perpendicular to Grain, Driven into Edge-Screw (Self-Drilling Screws 120mm x Root Dia: 5.00mm)
13. Lateral Loaded Parallel to Grain, Driven into Face-Bolt (M12 x 150mm)
14. Lateral Loaded Perpendicular to Grain, Driven into Face-Bolt (M12 x 150mm)

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Structural Laminated Veneer Lumber - Wood Species: Larch – Plies: ≥ 33 – Thickness: 63mm - Width: 300mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed	
Shandong Fushi LVL	300x63 E13	General Beams Used on Edge Only	E13	A	Phenolic Formaldehyde Resin	-	Super E ₀	13148	60.3	5.6	16.2	-	-	-	-	-	-	-	-	-	19/03/2026
								Nails			Screws		Bolts								
								Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Perpendicular Face								
								JD5 ⁵	JD5 ⁶	JD5 ⁹	JD5 ¹⁰	JD5 ¹³	JD5 ¹⁴								
								Lateral Parallel Edge	Lateral Perpendicular Edge	Lateral Parallel Edge	Lateral Perpendicular Edge										
								JD5 ⁷	JD5 ⁸	JD5 ¹¹	JD5 ¹²										
								Withdrawal Face	Withdrawal Edge	Withdrawal Face	Withdrawal Edge										
JD5 ¹	JD5 ²	JD5 ³	JD5 ⁴																		

1. Withdrawal Loads for Nails Driven into Face-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
2. Withdrawal Loads for Nails Driven into Edge-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
3. Withdrawal Loads for Screws Driven into Face-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
4. Withdrawal Loads for Screws Driven into Edge-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
5. Lateral Loaded Parallel to Grain, Driven into Face-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
6. Lateral Loaded Perpendicular to Grain, Driven into Face-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
7. Lateral Loaded Parallel to Grain, Driven into Edge-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)

8. Lateral Loaded Perpendicular to Grain, Driven into Edge-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
9. Lateral Loaded Parallel to Grain, Driven into Face-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
10. Lateral Loaded Perpendicular to Grain, Driven into Face-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
11. Lateral Loaded Parallel to Grain, Driven into Edge-Screw (Self-Drilling Screws 100mm x Root Dia: 4.00mm)
12. Lateral Loaded Perpendicular to Grain, Driven into Edge-Screw (Self-Drilling Screws 100mm x Root Dia: 4.00mm)
13. Lateral Loaded Parallel to Grain, Driven into Face-Bolt (M12 x 150mm)
14. Lateral Loaded Perpendicular to Grain, Driven into Face-Bolt (M12 x 150mm)

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Structural Laminated Veneer Lumber – Mixed Wood Species: Radiata Pine & Larch – Plies: ≥ 19 – Thickness: 35mm - Width: 90mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed					
Shandong Fushi LVL	90x35 F11	General Structural Use	F11	A	Phenolic Formaldehyde Resin	-	E ₀	13427	65.1	5.8	9.4	-	10722	55.6	4.9	6.7	-	36.2	35.5	19/03/2026					
								Nails			Screws		Bolts												
								Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face												
								JD5 ⁵	JD5 ⁶	JD5 ⁹	JD5 ¹⁰	JD5 ¹³	JD5 ¹⁴												
								Lateral Parallel Edge	Lateral Perpendicular Edge	Lateral Parallel Edge	Lateral Perpendicular Edge														
								JD5 ⁷	JD5 ⁸	JD5 ¹¹	JD5 ¹²														
								Withdrawal Face	Withdrawal Edge	Withdrawal Face	Withdrawal Edge														
JD5 ¹	JD5 ²	JD5 ³	JD5 ⁴																						

1. Withdrawal Loads for Nails Driven into Face-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
2. Withdrawal Loads for Nails Driven into Edge-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
3. Withdrawal Loads for Screws Driven into Face-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
4. Withdrawal Loads for Screws Driven into Edge-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
5. Lateral Loaded Parallel to Grain, Driven into Face-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
6. Lateral Loaded Perpendicular to Grain, Driven into Face-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
7. Lateral Loaded Parallel to Grain, Driven into Edge-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)

8. Lateral Loaded Perpendicular to Grain, Driven into Edge-Nail (Bullet Head Nails 70mm x Dia: 3.00mm)
9. Lateral Loaded Parallel to Grain, Driven into Face-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
10. Lateral Loaded Perpendicular to Grain, Driven into Face-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
11. Lateral Loaded Parallel to Grain, Driven into Edge-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
12. Lateral Loaded Perpendicular to Grain, Driven into Edge-Screw (Self-Drilling Screws 70mm x Root Dia: 3.50mm)
13. Lateral Loaded Parallel to Grain, Driven into Face-Bolt (M12 x 150mm)
14. Lateral Loaded Perpendicular to Grain, Driven into Face-Bolt (M12 x 150mm)

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Structural Laminated Veneer Lumber – Mixed Wood Species: Radiata Pine & Larch – Plies: ≥ 24 – Thickness: 45mm - Width: 90mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	90x45 F11	General Structural Use	F11	A	Phenolic Formaldehyde Resin	-	E ₀	14323	64.3	5.2	9.6	-	10847	59.1	6.3	7.2	-	33.7	38.9	19/03/2026
								Nails			Screws				Bolts					
								Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	JD5 ¹³	JD5 ¹⁴					
								JD5 ⁵	JD5 ⁶	JD5 ⁹	JD5 ¹⁰									
								Lateral Parallel Edge	Lateral Perpendicular Edge	Lateral Parallel Edge	Lateral Perpendicular Edge									
								JD5 ⁷	JD5 ⁸	JD5 ¹¹	JD5 ¹²									
								Withdrawal Face	Withdrawal Edge	Withdrawal Face	Withdrawal Edge	JD5 ¹³	JD5 ¹⁴							
JD5 ¹	JD5 ²	JD5 ³	JD5 ⁴																	

1. Withdrawal Loads for Nails Driven into Face-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
2. Withdrawal Loads for Nails Driven into Edge-Nail (Bullet Head Nails 50mm x Dia: 2.46mm)
3. Withdrawal Loads for Screws Driven into Face-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
4. Withdrawal Loads for Screws Driven into Edge-Screw (Self-Drilling Screws 50mm x Root Dia: 3.00mm)
5. Lateral Loaded Parallel to Grain, Driven into Face-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
6. Lateral Loaded Perpendicular to Grain, Driven into Face-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
7. Lateral Loaded Parallel to Grain, Driven into Edge-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)

8. Lateral Loaded Perpendicular to Grain, Driven into Edge-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
9. Lateral Loaded Parallel to Grain, Driven into Face-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
10. Lateral Loaded Perpendicular to Grain, Driven into Face-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
11. Lateral Loaded Parallel to Grain, Driven into Edge-Screw (Self-Drilling Screws 100mm x Root Dia: 4.00mm)
12. Lateral Loaded Perpendicular to Grain, Driven into Edge-Screw (Self-Drilling Screws 100mm x Root Dia: 4.00mm)
13. Lateral Loaded Parallel to Grain, Driven into Face-Bolt (M12 x 150mm)
14. Lateral Loaded Perpendicular to Grain, Driven into Face-Bolt (M12 x 150mm)

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Structural Laminated Veneer Lumber – Mixed Wood Species: Radiata Pine & Larch – Plies: ≥ 24 – Thickness: 45mm - Width: 300mm																				
Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_ρ [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_ρ [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	300x45 F11	General Structural Use	F11	A	Phenolic Formaldehyde Resin	-	E ₀	12949	65.5	6.0	10.5	-	10747	60.0	5.0	7.9	-	33.9	38.0	19/03/2026

Structural Laminated Veneer Lumber – Mixed Wood Species: Radiata Pine & Larch – Plies: ≥ 38 – Thickness: 63mm - Width: 95mm																				
Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_ρ [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_ρ [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	95x63 F11/F14	General Structural Use	F11 F14	A	Phenolic Formaldehyde Resin	-	E ₀	12372	56.91	4.2	9.0	-	12564	60.9	3.6	4.7	-	24.7	30.2	19/03/2026

Structural Laminated Veneer Lumber – Mixed Wood Species: Radiata Pine & Larch – Plies: ≥ 28 – Thickness: 45mm - Width: 240mm																					
Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_ρ [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_ρ [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed	
Shandong Fushi LVL	240x45 F11/F14	General Structural Use	F11 F14	A	Phenolic Formaldehyde Resin	-	E ₀	12305	55.0	-	-	-	12942	53.3	-	-	-	-	-	-	19/03/2026

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Structural Laminated Veneer Lumber – Mixed Wood Species: Radiata Pine & Larch – Plies: ≥ 33 – Thickness: 63mm - Width: 65mm

Brand	Model	Use	Grade	Bond Type	Adhesive	Treatment	Emission Class	On Edge E [MPa]	On Edge f'_b [MPa]	On Edge f'_s [MPa]	On Edge f'_p [MPa]	On Edge f'_{sj} [MPa]	On Flat E [MPa]	On Flat f'_b [MPa]	On Flat f'_s [MPa]	On Flat f'_p [MPa]	On Flat f'_{sj} [MPa]	Axial f'_t [MPa]	Axial f'_c [MPa]	Date Endorsed
Shandong Fushi LVL	65x63 E11	General Structural Use	E11	A	Phenolic Formaldehyde Resin	-	Super E0	11835	59.6	5.4	14.4	-	13004	63.7	3.9	7.9	-	28.3	31.7	19/03/2026
								Nails				Screws				Bolts				
								Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	Lateral Parallel Face	Lateral Perpendicular Face	Lateral Parallel Face	JD5 ¹³	JD5 ¹⁴					
								JD5 ⁵	JD5 ⁶	JD5 ⁹	JD5 ¹⁰									
								Lateral Parallel Edge	Lateral Perpendicular Edge	Lateral Parallel Edge	Lateral Perpendicular Edge									
								JD5 ⁷	JD5 ⁸	JD5 ¹¹	JD5 ¹²									
								Withdrawal Face	Withdrawal Edge	Withdrawal Face	Withdrawal Edge									
JD5 ¹	JD5 ²	JD5 ³	JD5 ⁴																	

1. Withdrawal Loads for Nails Driven into Face-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
2. Withdrawal Loads for Nails Driven into Edge-Nail (Bullet Head Nails 90mm x Dia: 3.67mm)
3. Withdrawal Loads for Screws Driven into Face-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
4. Withdrawal Loads for Screws Driven into Edge-Screw (Self-Drilling Screws 90mm x Root Dia: 4.00mm)
5. Lateral Loaded Parallel to Grain, Driven into Face-Nail (Bullet Head Nails 120mm x Dia: 5.00mm)
6. Lateral Loaded Perpendicular to Grain, Driven into Face-Nail (Bullet Head Nails 120mm x Dia: 5.00mm)
7. Lateral Loaded Parallel to Grain, Driven into Edge-Nail (Bullet Head Nails 120mm x Dia: 5.00mm)

8. Lateral Loaded Perpendicular to Grain, Driven into Edge-Nail (Bullet Head Nails 120mm x Dia: 5.00mm)
9. Lateral Loaded Parallel to Grain, Driven into Face-Screw (Self-Drilling Screws 120mm x Root Dia: 5.00mm)
10. Lateral Loaded Perpendicular to Grain, Driven into Face-Screw (Self-Drilling Screws 120mm x Root Dia: 5.00mm)
11. Lateral Loaded Parallel to Grain, Driven into Edge-Screw (Self-Drilling Screws 120mm x Root Dia: 5.00mm)
12. Lateral Loaded Perpendicular to Grain, Driven into Edge-Screw (Self-Drilling Screws 120mm x Root Dia: 5.00mm)
13. Lateral Loaded Parallel to Grain, Driven into Face-Bolt (M12 x 150mm)
14. Lateral Loaded Perpendicular to Grain, Driven into Face-Bolt (M12 x 150mm)

End of Record

Certificate No: PC10223

Originally Certified: 19/03/2026

Updated: 19/03/2026

Expires: 19/03/2031

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