

# 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:** 28/04/2026

**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  
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- 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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# 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

| 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 <sub>0</sub> | 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 <sub>0</sub> | 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 <sub>0</sub> | 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 <sub>0</sub> | 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 <sub>0</sub> | 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 <sub>0</sub> | 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 E0       | 13100                 | 71.0                       | 6.0                   | 13.1                       | -                       | 16274                      | 77.8                 | 6.7                  | 9.5                  | -                       | 37.4               | 38.8               | 19/03/2026    |
|                    |                  |                        |                  |           |                             |           |                | <b>Nails</b>          |                            |                       | <b>Screws</b>              |                         |                            | <b>Bolts</b>         |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face   | Lateral Perpendicular Face |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                | JD5 <sup>5</sup>      | JD5 <sup>6</sup>           | JD5 <sup>9</sup>      | JD5 <sup>10</sup>          | JD5 <sup>13</sup>       | JD5 <sup>14</sup>          |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                | Lateral Parallel Edge | Lateral Perpendicular Edge | Lateral Parallel Edge | Lateral Perpendicular Edge |                         |                            |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                | JD5 <sup>7</sup>      | JD5 <sup>8</sup>           | JD5 <sup>11</sup>     | JD5 <sup>12</sup>          |                         |                            |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                | Withdrawal Face       | Withdrawal Edge            | Withdrawal Face       | Withdrawal Edge            |                         |                            |                      |                      |                      |                         |                    |                    |               |
| JD5 <sup>1</sup>   | JD5 <sup>2</sup> | JD5 <sup>3</sup>       | JD5 <sup>4</sup> |           |                             |           |                |                       |                            |                       |                            |                         |                            |                      |                      |                      |                         |                    |                    |               |

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    |
|                    |                  |                                 |                  |           |                             |           |                | <b>Nails</b>          |                            |                       | <b>Screws</b>              |                         | <b>Bolts</b>               |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face   | Lateral Perpendicular Face |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | JD5 <sup>5</sup>      | JD5 <sup>6</sup>           | JD5 <sup>9</sup>      | JD5 <sup>10</sup>          | JD5 <sup>13</sup>       | JD5 <sup>14</sup>          |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | Lateral Parallel Edge | Lateral Perpendicular Edge | Lateral Parallel Edge | Lateral Perpendicular Edge |                         |                            |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | JD5 <sup>7</sup>      | JD5 <sup>8</sup>           | JD5 <sup>11</sup>     | JD5 <sup>12</sup>          |                         |                            |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | Withdrawal Face       | Withdrawal Edge            | Withdrawal Face       | Withdrawal Edge            |                         |                            |                      |                      |                      |                         |                    |                    |               |
| JD5 <sup>1</sup>   | JD5 <sup>2</sup> | JD5 <sup>3</sup>                | JD5 <sup>4</sup> |           |                             |           |                |                       |                            |                       |                            |                         |                            |                      |                      |                      |                         |                    |                    |               |

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 <sub>0</sub> | 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 <sup>5</sup>      | JD5 <sup>6</sup>           | JD5 <sup>9</sup>      | JD5 <sup>10</sup>          | JD5 <sup>13</sup>          | JD5 <sup>14</sup>     |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                      | Lateral Parallel Edge | Lateral Perpendicular Edge | Lateral Parallel Edge | Lateral Perpendicular Edge |                            |                       |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                      | JD5 <sup>7</sup>      | JD5 <sup>8</sup>           | JD5 <sup>11</sup>     | JD5 <sup>12</sup>          |                            |                       |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                      | Withdrawal Face       | Withdrawal Edge            | Withdrawal Face       | Withdrawal Edge            |                            |                       |                      |                      |                      |                         |                    |                    |               |
| JD5 <sup>1</sup>   | JD5 <sup>2</sup> | JD5 <sup>3</sup>       | JD5 <sup>4</sup> |           |                             |           |                      |                       |                            |                       |                            |                            |                       |                      |                      |                      |                         |                    |                    |               |

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 E0       | 13356                 | 69.8                       | 5.5                   | 15.2                       | -                       | -                          | -                    | -                    | -                    | -                       | -                  | -                  | 19/03/2026    |
|                    |                  |                                 |                  |           |                             |           |                | <b>Nails</b>          |                            |                       | <b>Screws</b>              |                         | <b>Bolts</b>               |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face   | Lateral Perpendicular Face |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | JD5 <sup>5</sup>      | JD5 <sup>6</sup>           | JD5 <sup>9</sup>      | JD5 <sup>10</sup>          | JD5 <sup>13</sup>       | JD5 <sup>14</sup>          |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | Lateral Parallel Edge | Lateral Perpendicular Edge | Lateral Parallel Edge | Lateral Perpendicular Edge |                         |                            |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | JD5 <sup>7</sup>      | JD5 <sup>8</sup>           | JD5 <sup>11</sup>     | JD5 <sup>12</sup>          |                         |                            |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                | Withdrawal Face       | Withdrawal Edge            | Withdrawal Face       | Withdrawal Edge            |                         |                            |                      |                      |                      |                         |                    |                    |               |
| JD5 <sup>1</sup>   | JD5 <sup>2</sup> | JD5 <sup>3</sup>                | JD5 <sup>4</sup> |           |                             |           |                |                       |                            |                       |                            |                         |                            |                      |                      |                      |                         |                    |                    |               |

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 <sub>0</sub> | 13148                 | 60.3                       | 5.6                   | 16.2                       | -                       | -                          | -                    | -                    | -                    | -                       | -                  | -                  | 19/03/2026    |
|                    |                  |                                 |                  |           |                             |           |                      | <b>Nails</b>          |                            |                       | <b>Screws</b>              |                         |                            | <b>Bolts</b>         |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                      | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face   | Lateral Perpendicular Face |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                      | JD5 <sup>5</sup>      | JD5 <sup>6</sup>           | JD5 <sup>9</sup>      | JD5 <sup>10</sup>          | JD5 <sup>13</sup>       | JD5 <sup>14</sup>          |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                      | Lateral Parallel Edge | Lateral Perpendicular Edge | Lateral Parallel Edge | Lateral Perpendicular Edge |                         |                            |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                      | JD5 <sup>7</sup>      | JD5 <sup>8</sup>           | JD5 <sup>11</sup>     | JD5 <sup>12</sup>          |                         |                            |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                                 |                  |           |                             |           |                      | Withdrawal Face       | Withdrawal Edge            | Withdrawal Face       | Withdrawal Edge            |                         |                            |                      |                      |                      |                         |                    |                    |               |
| JD5 <sup>1</sup>   | JD5 <sup>2</sup> | JD5 <sup>3</sup>                | JD5 <sup>4</sup> |           |                             |           |                      |                       |                            |                       |                            |                         |                            |                      |                      |                      |                         |                    |                    |               |

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 <sub>0</sub> | 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 <sup>5</sup>      | JD5 <sup>6</sup>           | JD5 <sup>9</sup>      | JD5 <sup>10</sup>          | JD5 <sup>13</sup>          | JD5 <sup>14</sup>     |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |
|                    |                  |                        |                  |           |                             |           |                | Lateral Parallel Edge | Lateral Perpendicular Edge | Lateral Parallel Edge | Lateral Perpendicular Edge |                            |                       |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |
|                    |                  |                        |                  |           |                             |           |                | JD5 <sup>7</sup>      | JD5 <sup>8</sup>           | JD5 <sup>11</sup>     | JD5 <sup>12</sup>          |                            |                       |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |
|                    |                  |                        |                  |           |                             |           |                | Withdrawal Face       | Withdrawal Edge            | Withdrawal Face       | Withdrawal Edge            |                            |                       |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |
| JD5 <sup>1</sup>   | JD5 <sup>2</sup> | JD5 <sup>3</sup>       | JD5 <sup>4</sup> |           |                             |           |                |                       |                            |                       |                            |                            |                       |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |

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 <sub>0</sub> | 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 <sup>5</sup>      | JD5 <sup>6</sup>           | JD5 <sup>9</sup>      | JD5 <sup>10</sup>          | JD5 <sup>13</sup>          | JD5 <sup>14</sup>     |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |
|                    |                  |                        |                  |           |                             |           |                | Lateral Parallel Edge | Lateral Perpendicular Edge | Lateral Parallel Edge | Lateral Perpendicular Edge |                            |                       |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |
|                    |                  |                        |                  |           |                             |           |                | JD5 <sup>7</sup>      | JD5 <sup>8</sup>           | JD5 <sup>11</sup>     | JD5 <sup>12</sup>          |                            |                       |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |
|                    |                  |                        |                  |           |                             |           |                | Withdrawal Face       | Withdrawal Edge            | Withdrawal Face       | Withdrawal Edge            |                            |                       |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |
| JD5 <sup>1</sup>   | JD5 <sup>2</sup> | JD5 <sup>3</sup>       | JD5 <sup>4</sup> |           |                             |           |                |                       |                            |                       |                            |                            |                       |                      |                      |                      |                         |                    |                    |               |  |  |  |  |  |

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 $f'_\rho$ [MPa] | On Edge $f'_{sj}$ [MPa] | On Flat E [MPa] | On Flat $f'_b$ [MPa] | On Flat $f'_s$ [MPa] | On Flat $f'_\rho$ [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 <sub>0</sub> | 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 $f'_\rho$ [MPa] | On Edge $f'_{sj}$ [MPa] | On Flat E [MPa] | On Flat $f'_b$ [MPa] | On Flat $f'_s$ [MPa] | On Flat $f'_\rho$ [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 <sub>0</sub> | 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 $f'_\rho$ [MPa] | On Edge $f'_{sj}$ [MPa] | On Flat E [MPa] | On Flat $f'_b$ [MPa] | On Flat $f'_s$ [MPa] | On Flat $f'_\rho$ [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 <sub>0</sub> | 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 E <sub>0</sub> | 11835                 | 59.6                       | 5.4                   | 14.4                       | -                          | 13004                 | 63.7                 | 3.9                  | 7.9                  | -                       | 28.3               | 31.7               | 19/03/2026    |
|                    |                  |                        |                  |           |                             |           |                      | <b>Nails</b>          |                            |                       | <b>Screws</b>              |                            |                       | <b>Bolts</b>         |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                      | Lateral Parallel Face | Lateral Perpendicular Face | Lateral Parallel Face | Lateral Parallel Face      | Lateral Perpendicular Face | Lateral Parallel Face |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                      | JD5 <sup>5</sup>      | JD5 <sup>6</sup>           | JD5 <sup>9</sup>      | JD5 <sup>10</sup>          | JD5 <sup>13</sup>          | JD5 <sup>14</sup>     |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                      | Lateral Parallel Edge | Lateral Perpendicular Edge | Lateral Parallel Edge | Lateral Perpendicular Edge |                            |                       |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                      | JD5 <sup>7</sup>      | JD5 <sup>8</sup>           | JD5 <sup>11</sup>     | JD5 <sup>12</sup>          |                            |                       |                      |                      |                      |                         |                    |                    |               |
|                    |                  |                        |                  |           |                             |           |                      | Withdrawal Face       | Withdrawal Edge            | Withdrawal Face       | Withdrawal Edge            |                            |                       |                      |                      |                      |                         |                    |                    |               |
| JD5 <sup>1</sup>   | JD5 <sup>2</sup> | JD5 <sup>3</sup>       | JD5 <sup>4</sup> |           |                             |           |                      |                       |                            |                       |                            |                            |                       |                      |                      |                      |                         |                    |                    |               |

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)

**Structural Laminated Veneer Lumber – Mixed Wood Species: Spruce & Radiata Pine – Plies: ≥ 23 – Thickness: 45mm - Width: 63mm**

| 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 | 63x45 F14 | General Structural Use | F14   | A         | Phenolic Formaldehyde Resin | -         | Super E <sub>0</sub> | 13164           | 63.5                 | 5.7                  | 12.4                 | -                       | 13894           | 58.8                 | 4.5                  | 7.8                  | -                       | 26.5               | 29.6               | 28/04/2026    |

**End of Record**

**Certificate No:** PC10223

**Originally Certified:** 19/03/2026

**Updated:** 28/04/2026

**Expires:** 19/03/2031

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