

Hangers

Selection Table – Limit States Design

| Axonometry | Number | Member dimensions | | | Hanger dimensions | | | | Fasteners ^(a, b) | | Resistances ^(c) | |
|--|--------|-------------------|--------------------------|--------------------------|-------------------|-----------|-----------|-----------|-----------------------------|-------------------|-------------------------------|-------------------------------|
| | | b (mm) | d _{min} (mm) | d _{max} (mm) | A (mm) | B (mm) | C (mm) | t (mm) | Face (nb - ø) | Joist (nb - ø) | Uplift ^(d) (kN) | Normal ^(e) (kN) |
| Hangers with annular ring nails | | | | | | | | | | | | |
| | sE011 | 86 | 222 | 318 | 88 | 218 | 110 | 3.0 | 16 - 6.0 | 8 - 6.0 | 20.8 | 36.3 |
| | sE012 | 86 | 362 | 546 | 88 | 358 | 110 | 3.0 | 32 - 6.0 | 16 - 6.0 | 41.7 | 58.6 |
| | sE013 | 86 | 502 | 737 | 88 | 458 | 110 | 3.0 | 44 - 6.0 | 24 - 6.0 | 62.6 | 58.6 |
| | sE014 | 86 | 597 | 921 | 88 | 578 | 110 | 3.0 | 56 - 6.0 | 32 - 6.0 | 67.4 | 58.6 |
| | sE015 | 137 | 222 | 318 | 139 | 218 | 110 | 3.0 | 16 - 6.0 | 8 - 6.0 | 24.5 | 36.3 |
| | sE016 | 137 | 362 | 546 | 139 | 358 | 110 | 3.0 | 32 - 6.0 | 16 - 6.0 | 49.1 | 72.6 |
| | sE017 | 137 | 502 | 737 | 139 | 458 | 110 | 3.0 | 42 - 6.0 | 24 - 6.0 | 73.6 | 93.3 |
| | sE018 | 137 | 597 | 921 | 139 | 578 | 110 | 3.0 | 54 - 6.0 | 32 - 6.0 | 98.2 | 93.3 |
| | sE019 | 184 | 222 | 318 | 186 | 218 | 110 | 3.0 | 16 - 6.0 | 8 - 6.0 | 24.5 | 36.3 |
| | sE020 | 184 | 362 | 546 | 186 | 358 | 110 | 3.0 | 32 - 6.0 | 16 - 6.0 | 49.1 | 72.6 |
| | sE021 | 184 | 502 | 737 | 186 | 458 | 110 | 3.0 | 42 - 6.0 | 24 - 6.0 | 73.6 | 95.3 |
| sE022 | 184 | 597 | 921 | 186 | 578 | 110 | 3.0 | 54 - 6.0 | 32 - 6.0 | 98.2 | 125.4 | |
| Hangers with bolts | | | | | | | | | | | | |
| | sE031 | 86 | 222 | 318 | 88 | 218 | 110 | 3.0 | 4 - 5/8" | 8 - 6.0 | 20.8 | 34.0 |
| | sE032 | 86 | 362 | 546 | 88 | 358 | 110 | 3.0 | 6 - 5/8" | 16 - 6.0 | 41.7 | 51.0 |
| | sE033 | 86 | 502 | 737 | 88 | 458 | 110 | 3.0 | 8 - 5/8" | 24 - 6.0 | 60.3 | 52.4 |
| | sE034 | 86 | 597 | 921 | 88 | 578 | 110 | 3.0 | 8 - 5/8" | 32 - 6.0 | 60.3 | 52.4 |
| | sE035 | 137 | 222 | 318 | 139 | 218 | 110 | 3.0 | 4 - 5/8" | 8 - 6.0 | 24.5 | 34.0 |
| | sE036 | 137 | 362 | 546 | 139 | 358 | 110 | 3.0 | 6 - 5/8" | 16 - 6.0 | 49.1 | 51.0 |
| | sE037 | 137 | 502 | 737 | 139 | 458 | 110 | 3.0 | 8 - 5/8" | 24 - 6.0 | 73.6 | 68.1 |
| | sE038 | 137 | 597 | 921 | 139 | 578 | 110 | 3.0 | 8 - 5/8" | 32 - 6.0 | 78.3 | 68.1 |
| | sE051 | 86 | 222 | 318 | 88 | 218 | 110 | 4.8 | 4 - 3/4" | 8 - 6.0 | 20.9 | 43.8 |
| | sE052 | 86 | 362 | 546 | 88 | 358 | 150 | 4.8 | 8 - 3/4" | 16 - 6.0 | 41.8 | 72.6 |
| | sE053 | 86 | 502 | 737 | 88 | 458 | 150 | 4.8 | 8 - 3/4" | 24 - 6.0 | 62.8 | 72.6 |
| | sE054 | 86 | 597 | 921 | 88 | 578 | 180 | 4.8 | 10 - 3/4" | 32 - 6.0 | 83.7 | 87.7 |
| | sE055 | 137 | 222 | 318 | 139 | 218 | 110 | 4.8 | 4 - 3/4" | 8 - 6.0 | 24.6 | 48.1 |
| | sE056 | 137 | 362 | 546 | 139 | 358 | 110 | 4.8 | 8 - 3/4" | 16 - 6.0 | 49.2 | 83.5 |
| sE057 | 137 | 502 | 737 | 139 | 458 | 150 | 4.8 | 10 - 3/4" | 24 - 6.0 | 73.9 | 115.7 | |
| sE058 | 137 | 597 | 921 | 139 | 578 | 150 | 4.8 | 10 - 3/4" | 32 - 6.0 | 98.5 | 115.7 | |
| sE059 | 184 | 222 | 318 | 186 | 218 | 110 | 4.8 | 4 - 3/4" | 8 - 6.0 | 24.6 | 48.1 | |
| sE060 | 184 | 362 | 546 | 186 | 358 | 110 | 4.8 | 8 - 3/4" | 16 - 6.0 | 49.2 | 96.2 | |
| sE061 | 184 | 502 | 737 | 186 | 458 | 130 | 4.8 | 10 - 3/4" | 24 - 6.0 | 73.9 | 120.3 | |
| sE062 | 184 | 597 | 921 | 186 | 578 | 130 | 4.8 | 12 - 3/4" | 32 - 6.0 | 98.5 | 133.8 | |

- a) Annular ring nails: ø 6 mm x L 60 mm (without pre-drilling); bolts: ø 5/8" or 3/4" x required length, ASTM A307 grade.
- b) Leave a clearance of 2 mm between the end of the supported element and the support element or hanger.
- c) Factored resistances are based on Nordic Lam members and are determined using calculations and/or static load tests. Testing is conducted under the supervision of an independent laboratory
- d) Factored uplift resistances are based on dry service conditions and short-term duration of load. Reduce by a factor of 1.15 for standard-term duration of load.
- e) Factored normal resistances are based on dry service conditions and standard-term duration of load. The perpendicular-to-grain splitting resistance and the resistance of the wood members shall be verified separately by the designer.

Notes:

1. Selection table for standard hangers; see shop drawings for manufacturing details.
2. For any other configuration, the design of the assemblies must conform to CSA O86 and CSA S16.
3. Additional requirements may apply for assemblies that require a fire-resistance rating.