

STAIR OPTIONS

Sound-reduction Treatments

PRODUCT DESCRIPTION

Sound-isolating or sound-dampening treatments applied to internal/external stairs to reduce resonant foot traffic noise in noise sensitive environments.



TYPICAL USES / APPLICATIONS

- Fire Egress stairs
- Mezzanine floor access stairs
- Multi-unit stairs
- Apartment block internal stairs
- Airports
- Shopping malls
- Office complex stairs
- Noise sensitive environments

CHARACTERISTICS / ADVANTAGES

- **Sound-isolating treatment:**
 - Sylodyn Symer bearing isolation of the stair structure.
 - Utilises well-proven German engineered product, proven in Europe with lightweight residential stairs.
 - Highly resilient and efficient isolator.
 - Does not degrade or perish like rubber products.
 - Proven impact noise reduction of 29 dB.
 - Decoupling of low frequency ranges, even below 100Hz.
 - Sustainable dampening efficiency due to the excellent long-term behaviour of Sylomer[®]
- **Sound-dampening treatment:**
 - A constrained layer, visco-elastic dampening material that reduces structural vibration and sound transmission in lightweight materials. When applied to the back and underside of the stair treads and risers, it removes the resonant stair noise generated by foot traffic.
 - Allows the use of lightweight stairs in noise sensitive environments, based on international testing.

TECHNICAL DATA / MATERIALS

- **Sound-isolating treatment:** 12.5 and 25 mm thick Sylomer elastomer Isolation Bearings and washers used to isolate structural connections. Engineered to suit stair mounting and loadings.
- **Sound-dampening treatment:** 1.3 mm thick Viscoelastic material with aluminum layer on the inner surface and a high performance acrylic to bond to the stair structure (2.5 kg/m²).

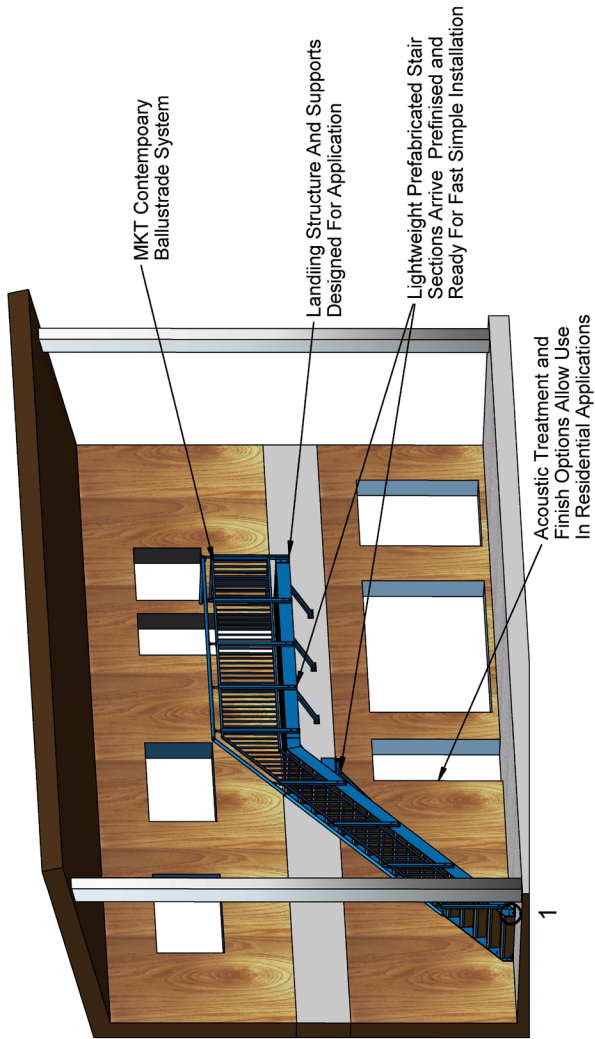
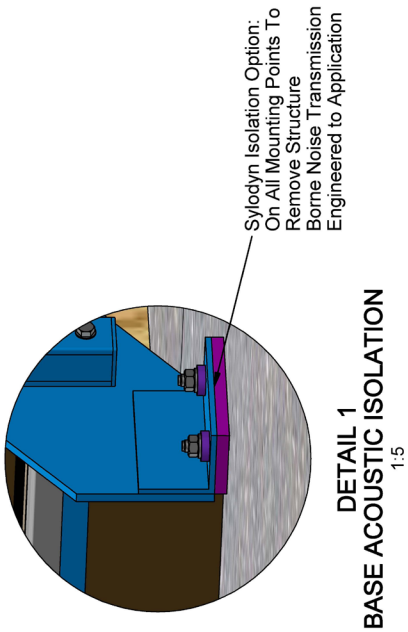
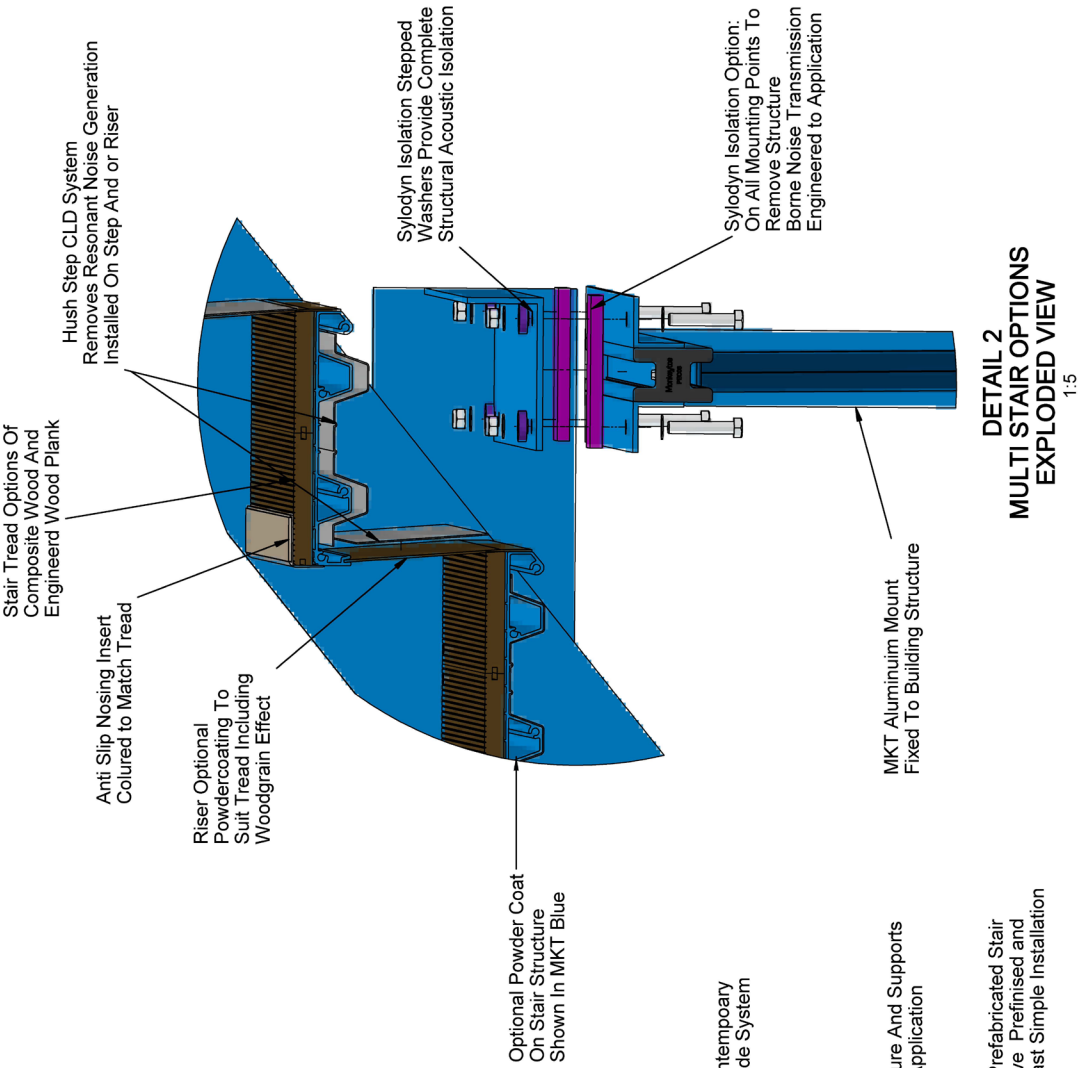
TESTS

APPROVALS / STANDARDS

- **Sound-isolating treatment:**
 - ISO 717-2, ISO 11925-2, EN 12667, ISO 8307, ISO 1856 2
 - DNV type approval
- **Sound-dampening treatment:**
 - ISO 6721-3, ISO 5660, ISO 5659
 - DNV type approval

WARRANTY

- 15 years product warranty
- Product Warranty is valid in accordance to the PS1 Engineering Standard that it has been designed to

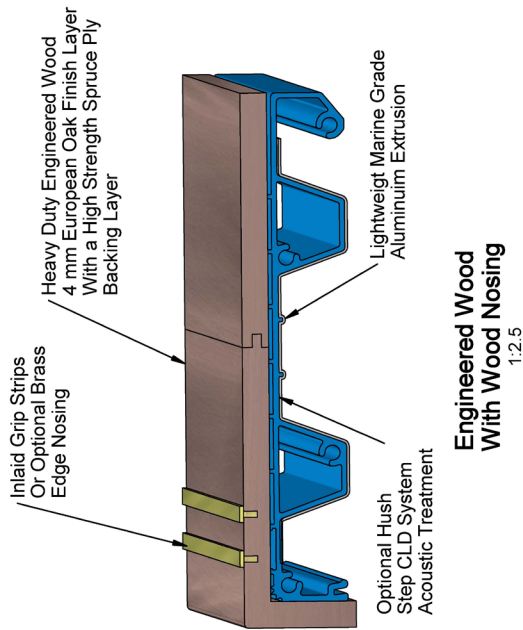
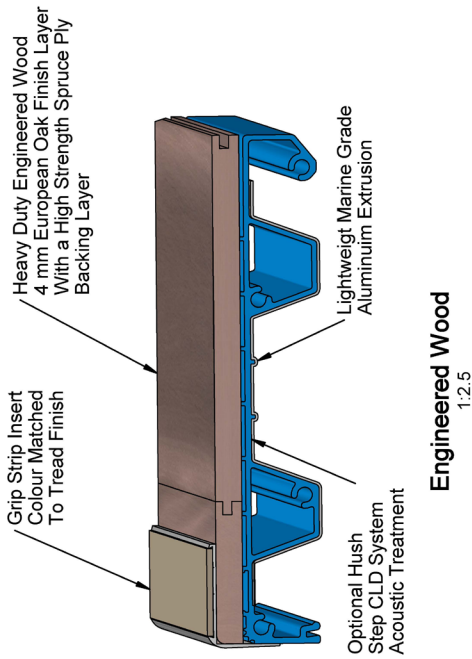
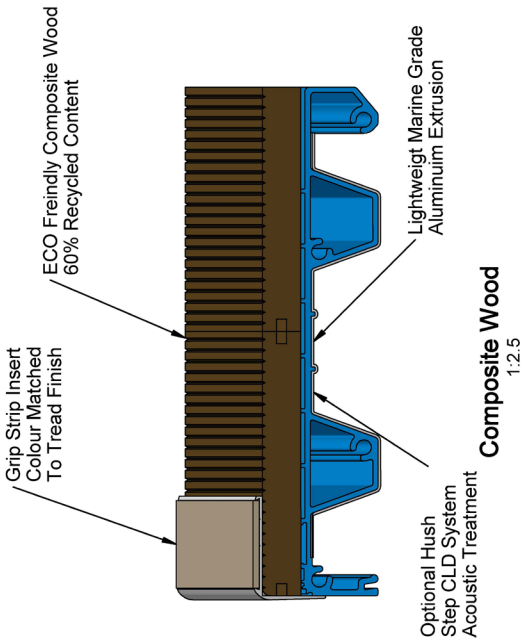


Architectural Stair Systems			
MONKEYTOE GROUP			
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ARCHITECTUAL TREAD OPTIONS

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DWG No: 2003-ASMD-1	15/10/2020
SHEET 2 OF 2	A3
SCALE: 1:1	REV:01
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