**REHAU RAUPIANO PLUS Acoustic Drainage System**

**Specification guidelines**

1. GENERAL

RAUPIANO PLUS acoustic wastewater system made of mineral filled Polypropylene (PP-MD). Suitable for gravity wastewater and kitchen trade waste with temperature resistance up to 90°C (95°C short-term), pH 2 to 12. For chemical trade waste, contact REHAU for chemical resistance verification.

Pipes and fittings shall be supplied by one manufacturer throughout the project to maintain consistent quality and to avoid warranty implications.

1. STANDARDS AND APPROVALS

Required standards, certification and approvals for pipe and fittings: AS/NZS 3500.2, AS/NZS 5065, AS/NZS 7671, AS 2887, Watermark, BRANZ appraisal.

1. MATERIALS – Pipe, Fittings, Connections

The pipe and fittings shall be mineral filled polypropylene with a minimum density of 1.9g/cm3. Material must be halogen-free.

Bends shall have increased wall thickness in fluid impact zone to minimise noise levels.

Connections shall be a leak proof push-fit socket connection with SBR sealing ring and rated to 1 bar (10m) head pressure respectively 2 bar (20m) when using Push-fit Lock.

MATERIALS – Bracketing

Bracketing shall comply with the manufacturer’s recommendation to ensure it does not compromise the acoustic performance of the product.

Proprietary dual sound-dampening brackets with vibration-decoupling system for vertical stack. Horizontal and vertical brackets shall be rubber-lined to reduce the structure-borne noise transmitted from the waste water system.

1. ACOUSTIC PERFORMANCE

System acoustic performance for noise generated by toilet flush shall be verified to meet or exceed NCC (BCA) requirements for Sound Transmission and Insulation (NCC 2016 Volume 1 Part F5), F5.6 – Sound insulation rating of internal services.

System acoustic performance to be validated with real life Acoustic tests conducted in Australia based around ceiling constructions in the Australian Construction Industry.