

# DURABELLA

## DATA SHEET D.S.1.1

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### DESIGNADECK ISOLATING SUB STRUCTURE FOR ROOF DECKS

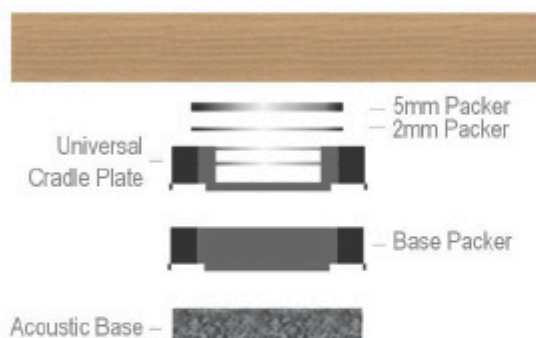
Airborne and impact noise transmission is a growing concern in the residential market place; recent reports have indicated an increase in domestic noise complaints with high numbers of residential acoustic test failures. The Durabella low impact external cradle support system has been designed to greatly reduce the transmission of sound through to inhabited environments below.



The unique low pressure resilient impact pad reduces the shock of any footsteps transmitting through to the substrate. In addition, it's unique reduced pressure footprint prevents any damage to the waterproof membranes which may have been applied to the substrate.

Effective acoustic control is a statutory requirement of the Building Regulations Approved Document E (1st July 2003).

Durabella Cradle and Batten systems have undergone extensive independent testing for members of the Pre-Cast Flooring Federation (PFF), as part of the Robust Standard Detail programme, to determine the Airborne and Impact sound transmission of various floor types and constructions. Durabella Cradle and Batten applications are an effective solution when dealing with acoustic control for new build and refurbishment projects.

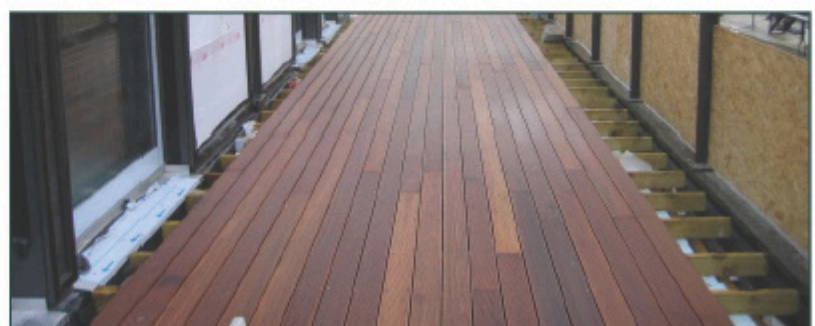


The Durabella Cradle System is designed for applications where the substrate is laid to fall to facilitate rainwater removal, the cradle support system will allow the installation of a level deck.

Durabella Cradle and Batten systems have the ability to resist compression under load whilst providing a continuing level of sound insulation.

The Cradle System is particularly effective in overcoming difficult site problems and can be laid with an overall depth between 55mm and 500mm.

Hardwood Decking on cradles to insulated balconies



**CRADLE GRID FOR BATTEN SPACING & FINISHED FLOOR HEIGHTS**

Board Size Thickness (mm)	Batten Depth (mm)	Batten Centres (mm)	Cradle Centres (mm)	F.F.H. Minimum (mm)	F.F.H. Maximum (mm)	Low Pressure Cradle Base (mm)
21mm+	25mm	400mm	300mm	58mm	70mm	12mm
21mm+	25mm	400mm	300mm	68mm	80mm	22mm
21mm+	35mm	400mm	450mm	78mm	90mm	22mm
21mm+	45mm	400mm	600mm	88mm	100mm	22mm
21mm+	55mm	400mm	600mm	98mm	110mm	22mm
21mm+	65mm	400mm	600mm	108mm	120mm	22mm
21mm+	75mm	400mm	600mm	118mm	130mm	22mm
21mm+	85mm	400mm	600mm	128mm	140mm	22mm
21mm+	95mm	400mm	600mm	138mm	150mm	22mm
21mm+	105mm	400mm	600mm	148mm	160mm	22mm

NOTE: When using 25mm+ deck boards, battens can be spaced at 600mm centres, cradle spacing remains the same. The minimum and maximum finished floor heights will be increased by 4mm.

Additional packing can be achieved by utilising the Durabella macro base packers, which can elevate the above configurations by 20mm increments; fine adjustment is made with 2mm and 5mm micro packers, within the cradle, up to 15mm. All Durabella roof deck battens are treated hazard class 3 and 46mm wide, supplied in 1.800 metre lengths.

The cradles, packers and battens can be completely bonded to the substrate using Durabella flexible adhesive if required. No mechanical fixings are necessary.



DECK DETAIL FOR ROOF DECKING WITH SHOCK ABSORBING LEVELLING CRADLE

This system can be anchored through the ledger or remain free standing

