

DURABELLA

DATA SHEET

R.S.1.1.

Durabella Acoustics Limited
 Windhill Old Station, Dock Lane
 Shipley, West Yorks BD18 1BU
 tel 01274 533311 fax 01274 533366
 enquiries@durabella.com
 www.durabella.com

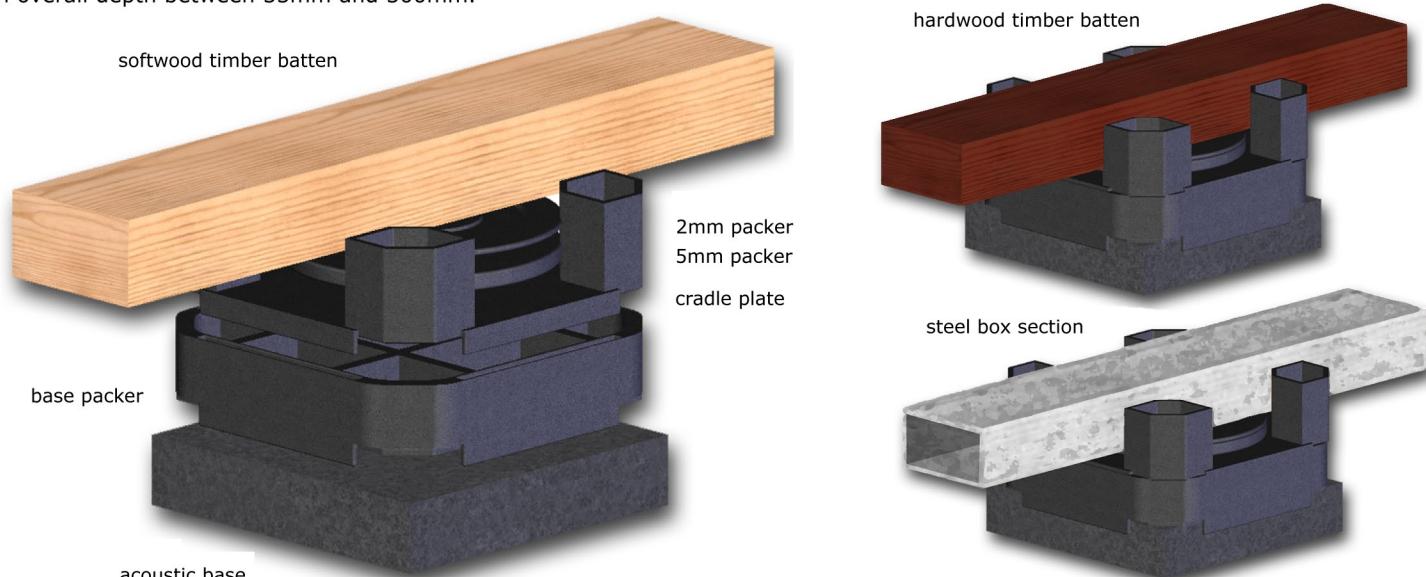
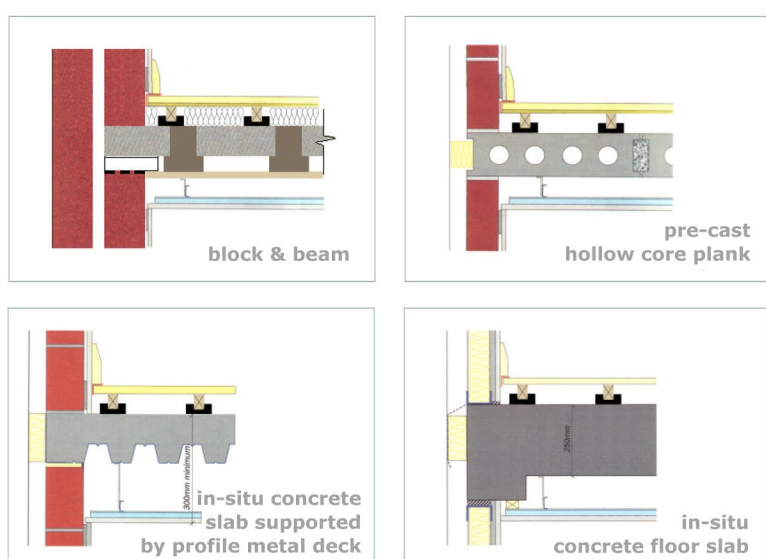
SEPARATING FLOORS : CONCRETE

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, so choosing the right system to meet current standards is a pre-requisite when dealing with separating party floors. Effective acoustic control is a statutory requirement of the Building Regulations Approved Document E (1st July 2003).

THE SOLUTION

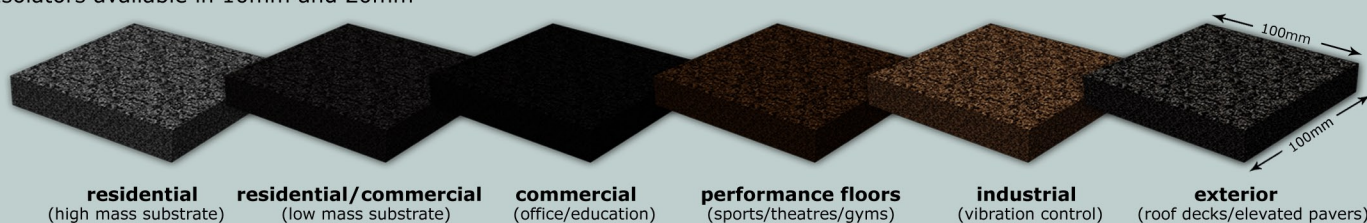
Durabella Cradle & Batten systems have undergone extensive independent testing for members of the Pre-Cast Flooring Federation (PFF), as part of the Robust Standard Detail Programme, to determine the airborne and impact sound transmission of various floor types and constructions. Durabella Cradle and 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 sub-floor is out of level tolerance or uneven and is an extension of the principle applied to the batten system. Durabella Cradle & 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.



The cradle is available in a standard robust plastic configuration or heavy duty metal section dependant on application. It is important to note that the various applications utilise different isolators to accommodate end-user requirements.

Isolators available in 10mm and 20mm



The straight lay acoustic batten system can be used in conjunction with screed finishes or where the sub-base has a reasonable level tolerance. In both cases, insulation runs between the battens and a perimeter seal is recommended to improve acoustic performance and help rectify any inadequacies pertaining to poor grouting and help seal weak acoustic passages which may not be apparent.

The key to effective acoustic control is to ensure that the correct construction method is adopted for each sub-base floor type, and built correctly, in conjunction with ceiling treatment details. Attention to wall type construction is also of importance to eliminate the element of flanking.

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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)	Acoustic Cradle Base (mm)
18mm	25mm	400mm	300mm	55mm	70mm	12mm
18mm	25mm	400mm	300mm	65mm	80mm	22mm
18mm	35mm	400mm	450mm	75mm	90mm	22mm
18mm	45mm	400mm	600mm	85mm	100mm	22mm
18mm	55mm	400mm	600mm	95mm	110mm	22mm
18mm	65mm	400mm	600mm	105mm	120mm	22mm
18mm	75mm	400mm	600mm	115mm	130mm	22mm
18mm	85mm	400mm	600mm	125mm	140mm	22mm
18mm	95mm	400mm	600mm	135mm	150mm	22mm
18mm	105mm	400mm	600mm	145mm	160mm	22mm

NOTE: When using 22mm overlay 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 battens are 46mm wide and supplied in 1.800 metre lengths.

