

DURAPOST®

REFLECTIVE ACOUSTIC FENCING

DuraPost®
BY BIRKDALE



DESCRIPTION

Reflective Acoustic Fencing

The acoustic fencing barrier solution provided by Birkdale offers a sound reduction of up to 28dB, as tested and compliant with the BS EN 1793-2:2018 and BS EN 16272-2 : 2012 standards. This solution is well-suited for both commercial and residential applications that demand effective noise reduction capabilities. This fence system is built using 'Commercial' DuraPosts® and tongue and groove reflective acoustic timber boards. Rubber acoustic seals combine with the patented DuraPost® technology to provide an acoustic barrier.

CONSTRUCTION

Commercial DuraPost®

Constructed from cold rolled pre-galvanised (DX51D Z275NA-C) steel, manufactured to EN 10346. For powder coating please contact us, available on quantity demand.

Acoustic Timber Boards

Constructed from 70% PEFC Certified 200mm x 47mm slow-grown redwood boards. The rebated capping is constructed from 85mm x 35mm twice weathered 70% PEFC Certified slow-grown redwood.

Rubber Seal

10mm thick x 50mm wide Cellular Adhesive EPDM Sponge Strip. A general purpose sponge rubber with excellent resistance to

air, water, UV and weathering. Temperature range is -40 to +80 Degrees Celsius.

COMMERCIAL DURAPOST® TESTING	DATA
Static Load Testing	1447kg / 14.2kN
Commercial DuraPost testing was carried out on 3.4m posts, with 2.4m above ground at 2.4m centres	

ACOUSTIC TIMBER TESTING	DATA
Acoustic Rating	28dB Reduction
Mass/M² (Timber Boards)	23.7kg/M²



Tested and accredited by Acoustics Research Center, University of Salford, Manchester.

EPDM RUBBER SEAL TESTING	DATA
Temperature Range	-40°C to +80°C

FINISH

Galvanised
(Powder Coating Available)



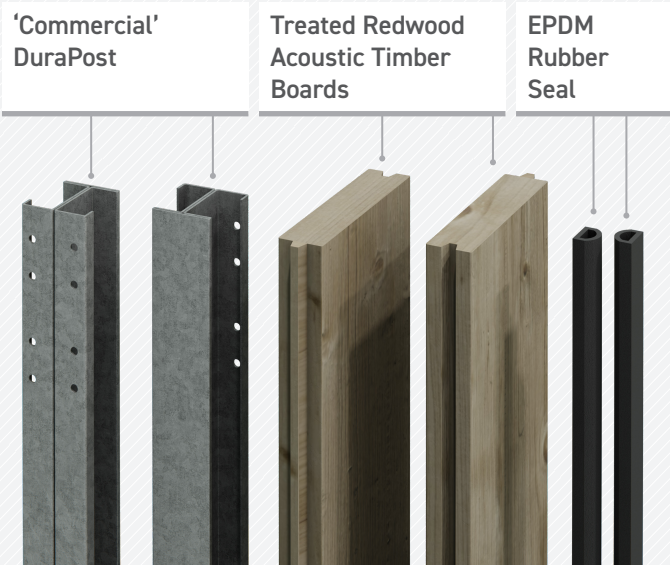
Slow-Grown Redwood



Black EPDM Sponge



PART LIST

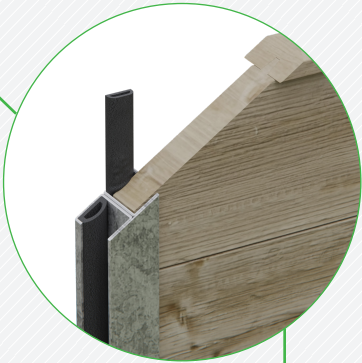


SLOW-GROWN REDWOOD

Redwood is a type of softwood known for its durability, resistance to decay, and natural beauty. Slow growth leads to tighter growth rings, denser wood fibers, and fewer knots. These characteristics contribute to improved strength, stability, and overall quality of the wood.

'COMMERCIAL' DURAPOST

The 'Commercial' DuraPost is combined with a EPDM rubber strip to create a compressed seal between the bays.



THE SYSTEM

COMPONENTS PER BAY		
COMPONENT	SIZE	QTY
'Commercial' DuraPost	Available Lengths: 2.4m, 3.0m, 3.4m, 4.0m & 5m*	1 (per bay + 1 extra per run)
Acoustic Reflective Timber Boards	Length: 2.4m* Height: 200mm (+ tongue) Width: 47mm	12 (for a 2.4m high bay)
Timber Capping	Length: 2.4m* Height: 35mm Width: 85mm	1 (per bay)
EPDM Black Sponge Seal	Thickness: 10mm Width: 50mm	2 (per post)
Hex Head Timber Fixings	M6 x 50mm	24

**Different sizes & configurations available on consultation.*



SETTING THE POSTS

As standard, we recommend a third of the post to be concreted below ground.