

# DURAPOST® COMMERCIAL REFLECTIVE ACOUSTIC FENCING SOLUTION



## DESCRIPTION

### Reflective Acoustic Fencing.

The acoustic fencing barrier solution provided by Birkdale offers a sound reduction of 27dB, as tested and compliant with the BS EN 1793-2:2018 standard. 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 225mm 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	1000kg / 9,810N
<i>Commercial DuraPost testing was carried out on 3.0m posts, with 2.4m above ground at 1.2m centres.</i>	

ACOUSTIC TIMBER TESTING	DATA
Acoustic Rating	27dB Minimum Reduction*
<i>*Additional acoustic material may be specified to further increase the acoustic absorbent properties.</i>	



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

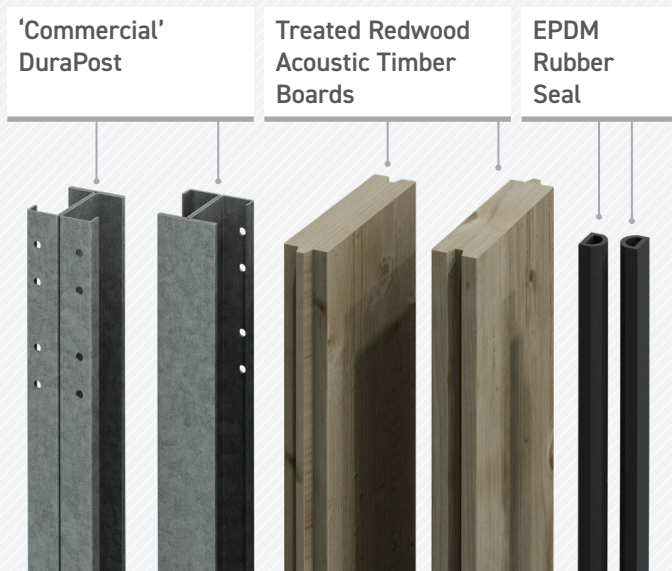
EPDM RUBBER SEAL TESTING	DATA
Temperature Range	-40°C to +80°C

WHISPER® ACOUSTIC FOAM TESTING	DATA
Traffic Noise barriers	EN 1794-2 Class 1
Nominal Density (ASTM D3575-08 Suffix W) ISO 845:2006	30 Kg/m³

## FINISH



**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.



**OPTIONAL WHISPER ACOUSTICS**

To increase absorbent noise reduction, the system may be fitted with the optional Whisper Acoustic foam, held in place by 'S' profile wire mesh, as shown in fig.2.

**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
Whisper® Cellular Acoustic Foam (optional)	2400 x 1200 x 50mm	(dependant on size of panel)
'S'-Profile Wire Mesh (optional)	2400 x 650 x 650mm	(Dependant on size of panel)
Large Washer for Foam (optional)	60mm Diameter	2 (per Whisper® section)

\*Different sizes & configurations available on consultation.



**SETTING THE POSTS**

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