

## SOUND BARRIER WALLS

Composite Engineering's new modular Sound Barriers have been designed to reduce urban noise for close proximity housing and residential developments. Designed with simple installation in mind, the sound barriers can be installed without cranes or other heavy lifting equipment.

With spans of up to 6mtrs, each section can be carried into position by two installers. This is of particular benefit in high risk environments such as electrical substations and around electrical railway infrastructure, where overhead crane access is extremely limited.

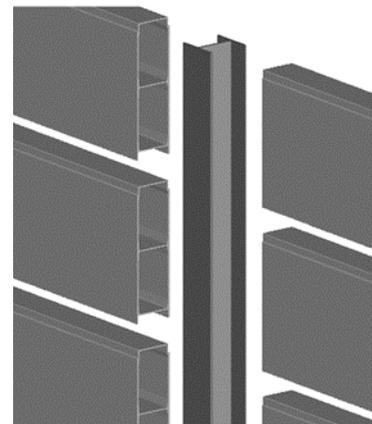


Composite Engineering's modular sound barriers carry a Class 30 endorsement for Sound Transmission testing when tested to ASTM E90, with further noise reductions possible with specific core and filling media. Offered with a selection of surface treatments including textured surfaces and graffiti resistant coatings, Composite Engineering's Sound Barrier Walls create an aesthetically pleasing acoustic barrier that will outlast all other materials.

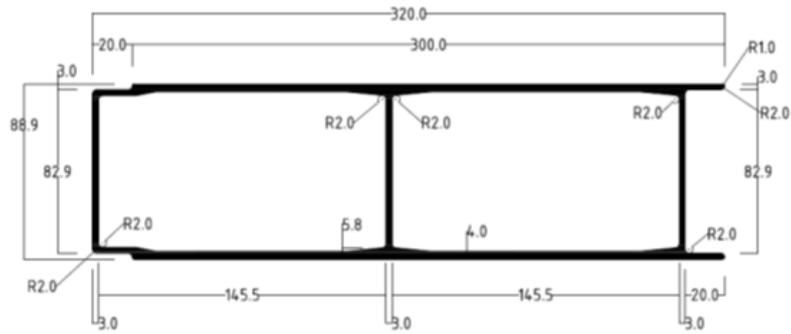
Simple to layout and assemble, installing this system could not be easier. Composite Engineering Sound Barrier Walls are also radio frequency transparent, so can be used to screen unsightly telecommunication equipment from roadsides and building facades, without any RF transmission performance loss.

### APPLICATIONS FOR SOUND BARRIER WALLS

- Highways, motorways and freeways
- Residential developments
- Power generation sites
- Railway visual barriers
- Water treatment plants
- Commercial sites
- Recreational facilities
- Electrical substations



# SOUND BARRIER WALLS



88.9mm x 320mm Hollow Profile  
Cross Section Area = 3349mm<sup>2</sup>

## BENEFITS OF COMPOSITE ENGINEERING SOUND BARRIERS

- Modular, lightweight components
- No heavy lifting equipment / cranes required for installation
- Lowest life-cycle service cost
- Will not corrode, rot, crack, rust or warp
- Structurally self-supporting - No footings under planks
- Non conductive - No earthing required in electrical applications
- Graffiti resistant coatings, multiple colour options
- Radio frequency transparent
- Blast rating available with modified internal reinforcement



Characteristics	Units	Test Reference
Tensile Strength	220Mpa	ASTM D1037-93
Modulus of Elasticity	21Gpa	ASTM D1037-93
Flexural Strength	280Mpa	ASTM D1037-93
Compressive Strength	145Mpa	ASTM D1037-93
Arc Resistance (LW)	120 Seconds	ASTM D495
Dielectric Strength (LW)	1.58kV/mm	ASTM D149
Sound Transmission Class	30	ASTM E90
Surface Burn (Flame Spread Index)	≤25	ASTM E84