

SUPERIOR DESIGN BY NATURE

DURABLE



QUALITY



PERFORMANCE



ENVIRONMENTALLY SENSITIVE



 **nexcem**<sup>®</sup>

PATENTED ACOUSTIC  
RAILWAY SILENCERS

[WWW.NEXCEMBUILD.COM](http://WWW.NEXCEMBUILD.COM)



# THE ADVANTAGE

When designers make technically superior decisions in a manner that is environmentally responsible, they are providing the best design solution for all stake holders. Choosing products like Nexcem reflects this commitment to our environment while building value, quality and performance for your client.

The first Nexcem products were insulated concrete forms manufactured to help rebuild post war Europe at a time when resources were scarce. Our product line has since expanded to include floor systems, noise barrier walls, railway silencers and retaining walls. With this proven history of versatility, performance and durability, your reputation can safely stand on ours.

## STRONG AND DURABLE

The Nexcem material has compressive strength of over 1MPa and each silencer is capable of resisting loads over 2000 kg / 4400 lbs. Our products are moisture resistant and free-draining with the first noise barrier panels installed over 35 years ago still in service today.

## SOUND PROTECTION

The sound absorptive properties of our material and our expertise in product configuration allows us to target specific peak frequencies as required by any given application; and achieve NRC / SAA /  $\alpha_w$  of up to 1.0

## FIRE RESISTANCE

The Nexcem material has flame spread and smoke spread rating of zero and ideal for non-combustible construction.

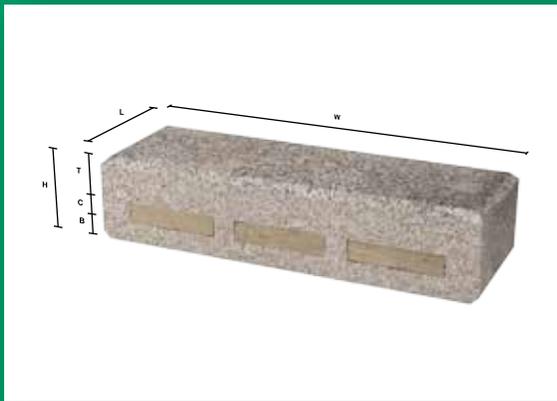
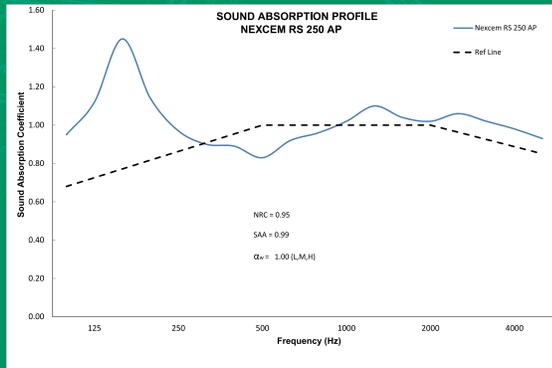


Nexcem Railway Silencers are typically 915 mm (36") wide (W) and 305 mm (12") long (L) as measured along the rail line. Various heights and absorption core sizes are available.



Nexcem is easily cut, nailed and screwed with simple carpentry tools.





### THE ADVANTAGE

- Lightweight
- Cut or modified with carpentry tools
- Free - draining material
- Faster construction
- Attach screws and construction adhesive to any part of material
- Fireproof (non-combustible construction)
  - Over Four Hour Fire Rating
  - Zero Flame Spread (won't burn)
  - Zero Smoke Developed
- Moisture resistant
- Rot and termite proof
- No VOCs or offgassing
- Unsurpassed sound attenuation
- 80% recycled content (by volume)
- Proven (over 55 years in service)

Nexcem Silencer Type	Total Height (H) mm / in	Top Layer Nexcem (T) mm / in	Absorptive Core (C) mm / in	Bottom Layer Nexcem (B) mm / in	Core Fill (Air / Ins)
RS 100	100 / 4	n/a - solid	n/a - solid	n/a - solid	n/a - solid
RS 150	150 / 6	n/a - solid	n/a - solid	n/a - solid	n/a - solid
RS 200	200 / 8	100 / 4	50 / 2	50 / 2	Air
RS 200 AP	200 / 8	100 / 4	50 / 2	50 / 2	Ins
RS 250	250 / 10	100 / 4	100 / 4	50 / 2	Air
RS 250 AP	250 / 10	100 / 4	100 / 4	50 / 2	Ins

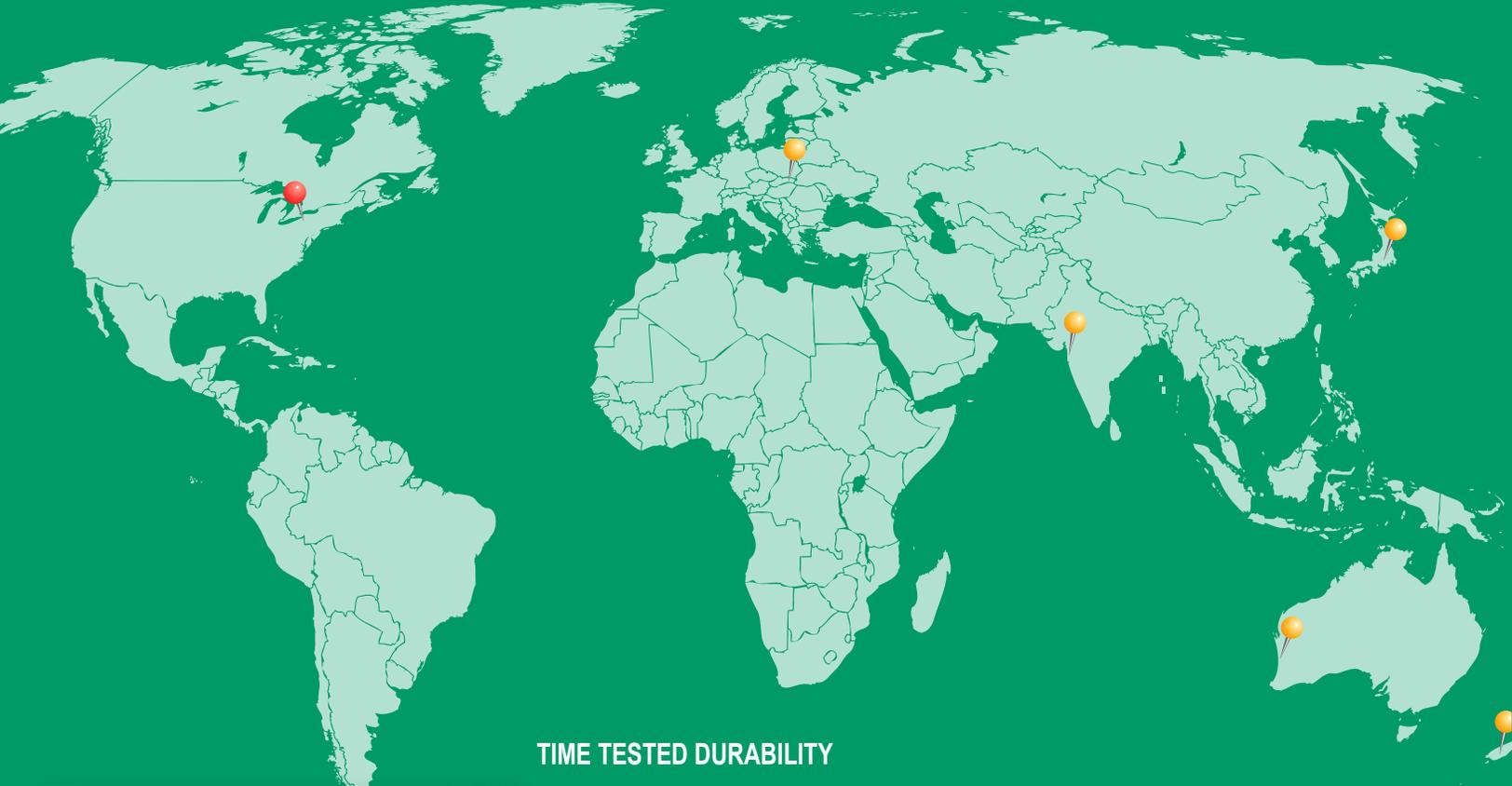
Nexcem Silencer Type	Tested NRC	Tested SAA	Tested $\alpha_w$	Peak Absorption Freq. Range (Hz)
RS 100	0,80	0,78	0,70 (M,H)	(450 - 950) , (1700 - 4000)
RS 150	0,95	0,91	0,95	(250 - 600) , (950 - 4000)
RS 200	0,90	0,90	0,80 (L,H)	(200 - 475) , (950 - 4000)
RS 200 AP	0,95	0,98	0,90 (L)	(125 - 500) , (1000 - 4000)
RS 250	0,95	0,89	0,75 (L,M,H)	(150 - 275) , (950 - 4000)
RS 250 AP	0,95	0,90	1,00	All Frequencies

Note:

- All Standard Silencers have a width (W) = 915mm / 36"
- All Standard Silencers have a length (L) = 305mm / 12" (along the track)
- Shape Indicators (L, M, H) signify absorption coefficients exceeding the reference value by min. 0.25 in the Low, Medium or High frequency ranges respectively



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### TIME TESTED DURABILITY

Nexcem products have been installed around the world for over sixty years. They have withstood hot and humid climates, freezing and thawing, termites, fungus and fire without loss of performance or surface damage.

Our Nexcem team provides technical support from the concept stage through installation. Assistance with installation techniques is provided as well as overseeing component assembly to ensure optimum efficiency in product performance.

We recommend construction techniques, assemblies and other complementary products that meet most budget and performance specifications. Our proven record of innovation, outstanding product performance and unsurpassed service has earned us an international reputation as a company with vision and integrity.



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