MARSHALL DAY A C O U S T I C S



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31 August, 2004

Holdfast Manufacturing Ltd PO Box 4206 State Highway 1 Hamilton

Attention: Stuart Humphrey

Dear Stuart,

Acoustical Performance of Sealants

As requested, Marshall Day Acoustics has assessed the performance of two sealants:

Holdfast® Firecryl™ Holdfast® Pro Gaps®

for use as sealants for sound rated walls.

The following characteristics are important when considering the use of a sealant for acoustical purposes.

- Density should be similar to the lining materials.
- Sealant should not be porous.
- It should not set rigidly and should allow joint movement of \pm 15 20% minimum.
- Will adhere to the construction materials from which the sound rated wall is constructed (typically timber, plasterboard, concrete), preferably without the use of a primer, and will adhere to a damp substrate.
- Does not shrink by more than 10 15% when it dries.
- Will easily flow into gaps of 3-10mm width and does not require a backing rod for gaps of 10mm or less.



We have examined the physical properties of the above two sealants and consider that they would be suitable for use on timber frame plasterboard walls which achieve performances up to STC 60. Typical Winstone Wallboard systems that the sealants would be suitable for are given in the table below (reference: Gib® Noise Control Systems, Feb 2000). Winstone Wallboards installation instruction and Holdfast instructions for use must be followed.

Winstone Wallboard	STC rating
System	31 C rating
GBTLA60	59
GBTLA60	55
GBTLA90a	58
GBSLA30a	56
GBSLA60a	55
GBDFA30	56
GBFA60	57
GBSCA30	57
GBSCA60	55
GBSCA60a	59

These examples are informative only. Constructions incorporating equivalent materials of a different brand would be expected to yield similar results.

We trust this information is satisfactory. If you have any queries or require any further assistance please do not hesitate to contact us.

Yours faithfully

Marshall Day Acoustics Ltd

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