

# Acoustical Performance

## Dynatrol II / Expansion Joints in Floor or Wall Construction

### ASTM E-90-99

#### Summary

- 1) Testing was performed on a pre-rated wall and floor system with STC values in excess of 45 (ref. ATI File # 01-41540).
- 2) A joint was then opened in this system with a total surface area of 0.69% relative to the total wall or floor surface. The resulting STC value was 18 with unfilled opening.
- 3) The opening was then filled with 4.0 pcf mineral wool, four inches in depth, at 50% compression. An additional one-half inch depth of Dynatrol II sealant was applied. **The resulting STC rating of the filled opening was 48.** (ref. ATI File # 01-41540.01E)
- 4) A rating was also determined with Pecora Dynatrol II without the presence of mineral wool and was found to produce an **STC rating of 45.** (ref. ATI File # 01-41540.02F)

#### Conclusion

An opening in a floor or wall assembly with an established STC value of at least 45 when sealed with Dynatrol II and mineral wool or Dynatrol II alone as outlined above will maintain the original STC value for the rated wall or floor system.

#### Results:

	STC Rating <sup>1</sup> Sound Transmission Class	OITC Rating <sup>2</sup> Outdoor-Indoor Transmission Class
<b>Dynatrol II and Mineral Wool All related UL Firestopping Designs</b>	48	33
<b>Dynatrol II</b>	45	32

<sup>1</sup> Calculated in accordance with ASTM E 413

<sup>2</sup> Calculated in accordance with ASTM E 1332

Independent laboratory test reports available upon request.