

Many KnollTextiles products are ideal for acoustical applications, whether you're looking for sound absorption or sound transparency properties.

The industry recognized test for acoustic fabric is the ASTM C423 and results are expressed in the form of a Noise Reduction Coefficient (NRC) rating. This measures the amount of sound that is absorbed into a fabric. For example, an NRC of 0.10 means that 10% of the sound is absorbed and 90% travels through the fabric.

Note that sound reflective fabrics are not considered good candidates for any acoustic use; these are fabrics with a tight construction, hard surface and heavy backing, and may distort sound. Contact your local representative for specific manufacturers' approvals.

## Sound Absorption Fabrics

Sound absorption fabrics are best used for application to solid walls or where sound absorption is desired. Defining characteristics of sound absorption fabrics are excellent absorption values, surface texture, soft surface and thick construction or backing.

|               |            |
|---------------|------------|
| Bankshot      | Narnia     |
| Bauhaus Block | Perception |
| Circle Line   | Periphery  |
| Clarkson      | Ultrasuede |
| Field Day     |            |
| Illume        |            |

## Sound Transparent Fabrics

Sound transparent fabrics are best used for wrapped applications on acoustic panels or where sound needs to travel through the fabric and be absorbed by a substrate. A simple test to determine transparency is whether you can blow through the fabric. Defining characteristics of sound transparent fabrics are an open weave, flat surface, lightweight and thin construction (unbacked or light backing).

|                |              |                    |             |
|----------------|--------------|--------------------|-------------|
| Allegory       | Foil Rap     | Mezzo              | Tailor Made |
| Amplify        | Foundation   | Micro              | Transition  |
| Analogy        | Gem          | Outback            | Twilight    |
| Backdrop       | Giza         | Presto             | Versatility |
| Bandwidth      | Glam         | Progression        | Walkabout   |
| Banyan         | Glaze        | Progression Striae | Weave Three |
| Basket Draft   | Glisten      | Raku Cloth         |             |
| Boardwalk      | Growth Spurt | Reflect            |             |
| Bollywood      | Hard Rock    | Regency            |             |
| Broadcloth     | Harmony      | Relay              |             |
| Clarity        | Heavy Metal  | Resolution         |             |
| Criss Cross    | Macro        | Ricochet           |             |
| Double Feature | Match Point  | Sequel             |             |
| Dristi         | Melbourne    | Solid Crepe        |             |
| Flow           | Metaphor     | Symbolic Details   |             |

In addition to being acoustic textiles, the patterns listed in this document have alternate applications. Please refer to the KnollTextiles price list for details.