

# Sound Product Charts

## Single Hollow Metal Doors Flush

| STC Rating Operable   | Max. Fire Rating | Hinges     | Locks                                    |
|-----------------------|------------------|------------|------------------------------------------|
| 56-66 - Communicating | No               | Cam Lift   | Cylindrical                              |
| 55 (2-1/4" thick)     | No               | Continuous | Cylindrical                              |
| 54                    | No               | Butt       | Cylindrical                              |
| 53                    | No               | Butt       | Cylindrical, Mortise                     |
| 52                    | 3 Hour           | Butt       | Cylindrical, Mortise                     |
| 51                    | 3 Hour           | Butt       | Cylindrical, Mortise, Rim Exit           |
| 50                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 49                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 48                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 47                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 46                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 45                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 44                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 43                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 42                    | 3 Hour           | Butt       | Cylindrical, Mortise, Military, Rim Exit |
| 41                    | 90 Minute        | Butt       | Cylindrical, Mortise                     |
| 41                    | 3 Hour           | Butt       | Cylindrical                              |
| 40                    | 90 Minute        | Butt       | Cylindrical, Mortise                     |
| 40                    | 3 Hour           | Butt       | Mortise                                  |
| 39                    | 90 Minute        | Butt       | Cylindrical, Mortise, Rim Exit           |
| 38                    | 3 Hour           | Butt       | Cylindrical, Mortise, Rim Exit           |
| 37                    | 3 Hour           | Butt       | Cylindrical, Mortise, Rim Exit           |
| 36                    | 3 Hour           | Butt       | Cylindrical, Mortise, Rim Exit           |
| 35                    | 3 Hour           | Butt       | Cylindrical, Mortise, Rim Exit           |
| 34                    | 3 Hour           | Butt       | Cylindrical, Mortise, Rim Exit           |
| 33                    | 3 Hour           | Butt       | Cylindrical, Mortise, Rim Exit           |
| 32                    | 3 Hour           | Butt       | Cylindrical, Mortise                     |

## Single Hollow Metal Glazed

| STC Rating Operable | Max. Fire Rating | Hinges | Locks                          | Max. Visible Area |
|---------------------|------------------|--------|--------------------------------|-------------------|
| 48                  | 90 Minute        | Butt   | Cylindrical                    | 100 Sq In         |
| 47                  | 90 Minute        | Butt   | Cylindrical, Mortise           | 100 Sq In         |
| 46                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 45                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 45                  | 90 Minute        | Butt   | Cylindrical                    | 288 Sq In         |
| 44                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 44                  | 90 Minute        | Butt   | Cylindrical, Mortise           | 288 Sq In         |
| 43                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 43                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 42                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 42                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 41                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 41                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 41                  | 90 Minute        | Butt   | Cylindrical                    | 720 Sq In         |
| 40                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 40                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 40                  | 90 Minute        | Butt   | Cylindrical, Mortise           | 720 Sq In         |
| 39                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 39                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 39                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 720 Sq In         |

# Sound Product Charts

## Single Hollow Metal Doors Cont.

| STC Rating Operable | Max. Fire Rating | Hinges | Locks                          | Max. Visible Area |
|---------------------|------------------|--------|--------------------------------|-------------------|
| 38                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 38                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 38                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 720 Sq In         |
| 37                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 37                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 37                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 720 Sq In         |
| 36                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 36                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 36                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 720 Sq In         |
| 35                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 35                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 35                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 720 Sq In         |
| 34                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 34                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 34                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 720 Sq In         |
| 33                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 33                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 33                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 720 Sq In         |
| 32                  | 3 Hour           | Butt   | Cylindrical, Mortise, Rim Exit | 100 Sq In         |
| 32                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 288 Sq In         |
| 32                  | 90 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 720 Sq In         |

## Pairs of Hollow Metal Doors Flush

| STC Rating Operable | Max. Fire Rating | Hinges | Locks                |
|---------------------|------------------|--------|----------------------|
| 49                  | 3 Hour           | Butt   | Cylindrical          |
| 48                  | 3 Hour           | Butt   | Cylindrical, Mortise |
| 47                  | 3 Hour           | Butt   | Cylindrical, Mortise |
| 47                  | 3 Hour           | Butt   | Mortise Panic        |
| 46                  | 3 Hour           | Butt   | Cylindrical, Mortise |
| 46                  | 3 Hour           | Butt   | Mortise Panic        |
| 45                  | 3 Hour           | Butt   | Cylindrical, Mortise |
| 45                  | 3 Hour           | Butt   | Mortise Panic        |
| 44                  | 3 Hour           | Butt   | Cylindrical, Mortise |
| 44                  | 3 Hour           | Butt   | Mortise Panic        |
| 43                  | 3 Hour           | Butt   | Cylindrical, Mortise |
| 43                  | 3 Hour           | Butt   | Mortise Panic        |
| 42                  | 3 Hour           | Butt   | Cylindrical, Mortise |
| 42                  | 3 Hour           | Butt   | Mortise Panic        |
| 41                  | 3 Hour           | Butt   | Cylindrical          |
| 40                  | 3 Hour           | Butt   | Cylindrical          |
| 39                  | 3 Hour           | Butt   | Cylindrical          |
| 38                  | 3 Hour           | Butt   | Cylindrical          |
| 37                  | 3 Hour           | Butt   | Cylindrical          |
| 36                  | 3 Hour           | Butt   | Cylindrical          |
| 35                  | 3 Hour           | Butt   | Cylindrical          |
| 34                  | 3 Hour           | Butt   | Cylindrical          |
| 33                  | 3 Hour           | Butt   | Cylindrical          |
| 32                  | 3 Hour           | Butt   | Cylindrical          |

# Sound Product Charts

## Pairs of Hollow Metal Doors Glazed

| STC Rating Operable | Max. Fire Rating | Hinges | Locks                               | Max. Visible Area |
|---------------------|------------------|--------|-------------------------------------|-------------------|
| 44                  | 3 Hour           | Butt   | Cylindrical                         | 100 Sq In         |
| 43                  | 3 Hour           | Butt   | Cylindrical, Mortise                | 100 Sq In         |
| 42                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 41                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 41                  | 90 Minute        | Butt   | Cylindrical                         | 288 Sq In         |
| 40                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 40                  | 90 Minute        | Butt   | Cylindrical, Mortise                | 288 Sq In         |
| 39                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 39                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 288 Sq In         |
| 38                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 38                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 288 Sq In         |
| 37                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 37                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 288 Sq In         |
| 37                  | 90 Minute        | Butt   | Cylindrical                         | 720 Sq In         |
| 36                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 36                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 288 Sq In         |
| 36                  | 90 Minute        | Butt   | Cylindrical, Mortise                | 720 Sq In         |
| 35                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 35                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 288 Sq In         |
| 35                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 720 Sq In         |
| 34                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 34                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 288 Sq In         |
| 34                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 720 Sq In         |
| 33                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 33                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 288 Sq In         |
| 33                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 720 Sq In         |
| 32                  | 3 Hour           | Butt   | Cylindrical, Mortise, Mortise Panic | 100 Sq In         |
| 32                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 288 Sq In         |
| 32                  | 90 Minute        | Butt   | Cylindrical, Mortise, Mortise Panic | 720 Sq In         |

## Single Flush Temperature Rise Doors

| STC Rating Operable | Max. Fire Rating | Hinges | Locks                |
|---------------------|------------------|--------|----------------------|
| 41                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 40                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 39                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 38                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 37                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 36                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 35                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 34                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 33                  | 90 Minute        | Butt   | Cylindrical, Mortise |
| 32                  | 90 Minute        | Butt   | Cylindrical, Mortise |

## Single Embossed Panel Doors Glazed

| STC Rating Operable | Max. Fire Rating | Hinges | Locks                          | Design         |
|---------------------|------------------|--------|--------------------------------|----------------|
| 48                  | 45 Minute        | Butt   | Cylindrical                    | 6 Panel        |
| 47                  | 45 Minute        | Butt   | Cylindrical                    | 6 Panel        |
| 47                  | 45 Minute        | Butt   | Cylindrical                    | 2 Panel HD     |
| 46                  | 45 Minute        | Butt   | Cylindrical, Mortise           | 6 Panel        |
| 46                  | 45 Minute        | Butt   | Cylindrical                    | 2 Panel HD     |
| 45                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 Panel        |
| 45                  | 45 Minute        | Butt   | Cylindrical, Mortise           | 2 Panel HD     |
| 44                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 43                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 42                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 41                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 40                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 39                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 38                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 37                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 36                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 35                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 34                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 33                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |
| 32                  | 45 Minute        | Butt   | Cylindrical, Mortise, Rim Exit | 6 & 2 panel HD |

## Testing and Certification

- Sound-Tech Xpress Systems are tested in accordance with:
- ASTM E90-04 and E90-09, Standard test method for laboratory measurement of airborne sound transmission loss of building partitions
- ASTM E413-04, Classification for rating sound insulation
- ASTM E1332-90, (Re-approved 2003) Standard classification for determination of outdoor-indoor transmission class
- ASTM E2235-04, Standard test method for determination of decay rates for use in sound insulation test methods



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