

4 Architectural 5-Ply Specification

Technical Manual

June, 2011

Graham[®]
wood doors

ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions

GSD-SR35

Acoustical Core
STC 35
WDMA Extra Heavy Duty
SR5

Construction

Horizontal Edges:

- Bonded to core
- 3" minimum after factory trim
- No additional blocking required for thru bolted closers

Vertical Edges:

- Matching vertical edges
- Bonded to core
- Structural composite lumber (SCL) laminated with a matching veneer edge band

Core:

- Proprietary Sound Resistant material
- Contains no added Urea-formaldehyde

Fire Rating:

- 20 minute fire rating available
- Meets UL 10b and UL 10c requirements
- Available with factory installed lite (up to and including 100 in² visible area)

Acoustical Rating:

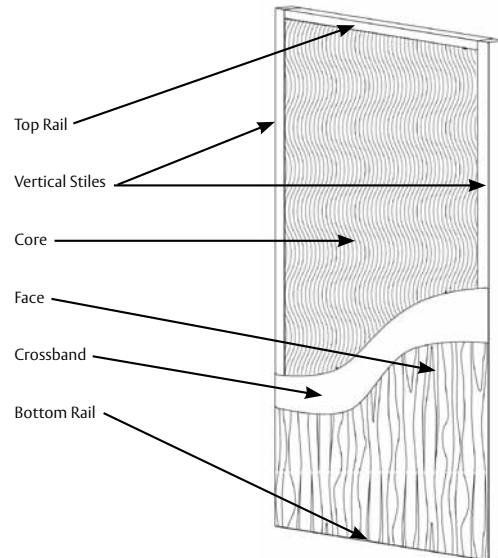
- Sound Transmission Class (STC) 35 operable
- Available with factory installed lite (up to and including 252 in² visible area)
- Required gasketing (with threshold) is included in price of door and provided by Graham
- Door thickness 1 3/4"
- Top clearance 1/8"
- Hinge side clearance 1/8"
- Lock side clearance 1/16"
- Undercut clearance (from finished floor) 3/8"
- Single swing, or Pair with mullion
- Uses standard or heavyweight hinges (4.5" or 5")
- For use with cylindrical locks, mortise locks, mortise card locks, and thru-bolted closers
- Minimum size - 2'0" x 6'0"
- Maximum size - 4'0" x 8'0"
- Tested in accordance with ASTM E90 and E413, in fully grouted hollow metal frame

Adhesive:

- Doors constructed using Type I adhesives which contain no added Urea-formaldehyde

Construction Grade:

- Performance: WDMA/AWS - Extra Heavy Duty Hinge Loading and Screw Holding (horizontal and vertical door edges)
- Aesthetic: WDMA - Premium Grade



Face Veneer:

- Available in a wide variety of vertical & horizontal grain wood species, Sketch Face, Medium Density Overlay (MDO), and Primed Hardboard
- WDMA/AWS "A" Grade, Book and Running Match, standard
- Slip, Balance, and Center Balance Match available upon request
- WDMA/AWS "AA" Grade available upon request

Crossband:

- 1/16" (1.6 mm) minimum high density engineered wood composite
- Optional with no added Urea-formaldehyde

Finish:

- UV cured factory finish meets or exceeds WDMA TR-6 and Architectural Woodwork Standards (AWS) First Edition - System #9
- Available in 28 standard colors and custom color match
- Available with MicroShield[®] Antimicrobial finish

Certifications and Sustainability:

- Optional LEED 3.0 credits available
 - IEQ 4.4 - Low-emitting Materials
 - IEQ 9 - Enhanced Acoustical Performance (LEED for schools) STC 35 operable (flush door)
- California Air Resources Board (CARB)

Lifetime Warranty

GSD-SR41

Acoustical Core
STC 41
WDMA Extra Heavy Duty
SR5

Construction

Horizontal Edges:

- Bonded to core
- 3" minimum after factory trim
- No additional blocking required for thru bolted closers

Vertical Edges:

- Matching vertical edges
- Bonded to core
- Structural composite lumber (SCL) laminated with a matching veneer edge band

Core:

- Heavy Duty Sound Resistant Core Material

Acoustical Rating:

- Sound Transmission Class (STC) 41 operable
- Available with factory installed lite (up to and including 252 in² visible area)
- Required gasketing (with threshold) is included in price of door and provided by Graham
- Door thickness 1 3/4"
- Top clearance 1/8"
- Hinge side clearance 1/8"
- Lock side clearance 1/16"
- Undercut clearance (from finished floor) 3/8"
- Single swing, or Pair with mullion
- Uses standard or heavyweight hinges (4.5" or 5")
- For use with cylindrical locks, mortise locks, mortise card locks, and thru-bolted closers
- Minimum size - 2'0" x 6'0"
- Maximum size - 4'0" x 8'0"
- Tested in accordance with ASTM E90 and E413, in fully grouted hollow metal frame

Adhesive:

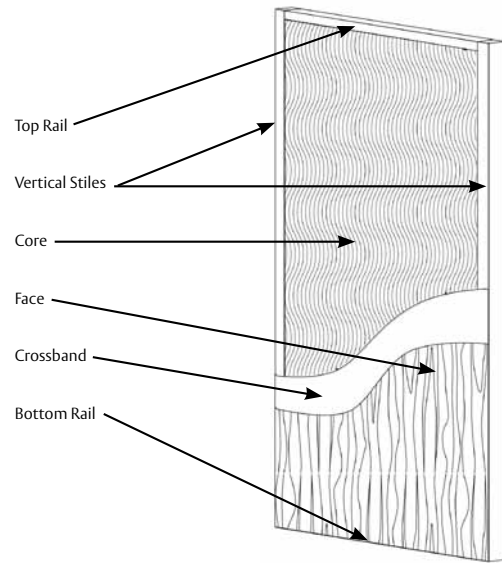
- Doors constructed using Type I adhesives which contain no added Urea-formaldehyde

Construction Grade:

- Performance: WDMA/AWS - Extra Heavy Duty Hinge Loading and Screw Holding (horizontal and vertical door edges)
- Aesthetic: WDMA - Premium Grade

Face Veneer:

- Available in a wide variety of vertical & horizontal grain wood species, Sketch Face, Medium Density Overlay (MDO), and Primed Hardboard
- WDMA/AWS "A" Grade, Book and Running Match, standard
- Slip, Balance, and Center Balance Match available upon request
- WDMA/AWS "AA" Grade available upon request



Crossband:

- 1/16" (1.6 mm) minimum high density engineered wood composite
- Optional with no added Urea-formaldehyde

Finish:

- UV cured factory finish meets or exceeds WDMA TR-6 and Architectural Woodwork Standards (AWS) First Edition - System #9
- Available in 28 standard colors and custom color match
- Available with MicroShield® Antimicrobial finish

Certifications and Sustainability:

- Optional LEED 3.0 credits available
 - IEQ 4.4 - Low-emitting Materials
 - IEQ 9 - Enhanced Acoustical Performance (LEED for schools) STC 35 operable (flush door)
- California Air Resources Board (CARB)

Lifetime Warranty

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wood doors

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GSD-SR42

Acoustical Core
STC 42
WDMA Extra Heavy Duty
SR5

Construction

Horizontal Edges:

- Bonded to core
- 3" minimum after factory trim
- No additional blocking required for thru bolted closers
- Optional closer and lock blocks available

Vertical Edges:

- Matching vertical edges
- Bonded to core
- Structural composite lumber (SCL) laminated with a matching veneer edge band

Core:

- Heavy Duty Sound Resistant Core Material

Fire Rating:

- 20 minute fire rating available
- Meets UL 10b and UL 10c requirements

Acoustical Rating:

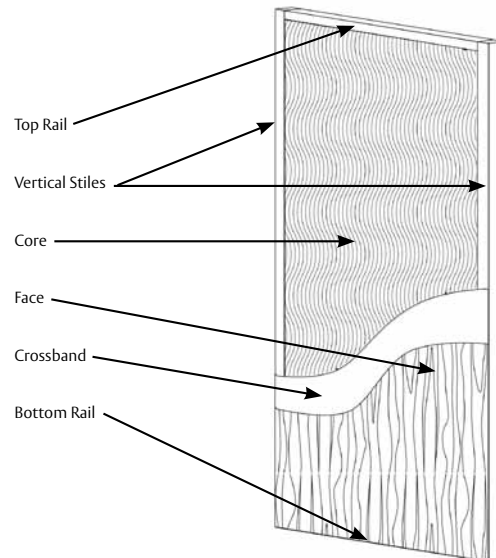
- Sound Transmission Class (STC) 42 operable
- Required gasketing (with threshold) is included in price of door and provided by Graham
- Door thickness 1 3/4"
- Top clearance 1/8"
- Hinge side clearance 1/8"
- Lock side clearance 1/16"
- Undercut clearance (from finished floor) 3/8"
- Single swing, or Pair with mullion
- Uses standard or heavyweight hinges (4.5" or 5")
- For use with cylindrical locks, mortise locks, mortise card locks, and thru-bolted closers
- Minimum size - 2'0" x 6'0"
- Maximum size - 4'0" x 8'0"
- Tested in accordance with ASTM E90 and E413, in fully grouted hollow metal frame

Adhesive:

- Doors constructed using Type I adhesives which contain no added Urea-formaldehyde

Construction Grade:

- Performance: WDMA/AWS - Extra Heavy Duty Hinge Loading and Screw Holding (horizontal and vertical door edges)
- Aesthetic: WDMA - Premium Grade



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- Slip, Balance, and Center Balance Match available upon request
- WDMA/AWS "AA" Grade available upon request

Crossband:

- 1/16" (1.6 mm) minimum high density engineered wood composite
- Optional with no added Urea-formaldehyde

Finish:

- UV cured factory finish meets or exceeds WDMA TR-6 and Architectural Woodwork Standards (AWS) First Edition - System #9
- Available in 28 standard colors and custom color match
- Available with MicroShield[®] Antimicrobial finish

Certifications and Sustainability:

- Optional LEED 3.0 credits available
 - IEQ 4.4 - Low-emitting Materials
 - IEQ 9 - Enhanced Acoustical Performance (LEED for schools) STC 35 operable (flush door)
- California Air Resources Board (CARB)

Lifetime Warranty

GSD-SR46
Acoustical Core
STC 46
WDMA Extra Heavy Duty
SR5

Construction

Horizontal Edges:

- Bonded to core
- 3" minimum after factory trim
- No additional blocking required for thru bolted closers
- Optional closer and lock block available

Vertical Edges:

- Matching vertical edges
- Bonded to core
- Structural composite lumber (SCL) laminated with a matching veneer edge band

Core:

- Proprietary Sount Resistant material
- Contains no added Urea-formaldehyde

Acoustical Rating:

- Sound Transmission Class (STC) 46 operable
- Required gasketing (with threshold) is included in price of door and provided by Graham
- Door thickness 1 3/4"
- Top clearance 1/8"
- Hinge side clearance 1/8"
- Lock side clearance 1/16"
- Undercut clearance (from finished floor) 3/8"
- Single swing, or Pair with mullion
- Uses standard or heavyweight hinges (4.5" or 5")
- For use with cylindrical locks, mortise locks, mortise card locks, and thru-bolted closers
- Minimum size - 2'0" x 6'0"
- Maximum size - 4'0" x 8'0"
- Tested in accordance with ASTM E90 and E413, in fully grouted hollow metal frame

Adhesive:

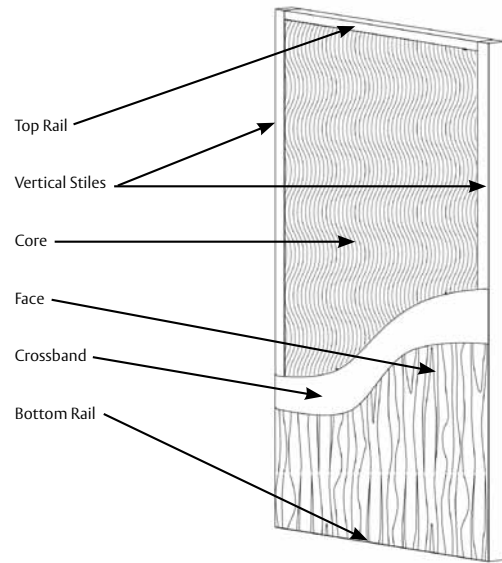
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