

# Legion™ / Ultrador™

## Polystyrene Core

### Features

- 1-3/4" (44.4 mm) insulated full flush design - rated for light to extra-heavy-duty use
- Polystyrene core provides insulation characteristics and resistance to impact
- Core is chemically bonded to face sheets providing total surface support
- Mechanically interlocked, hemmed vertical edge seams (as shown) or center edge seam for added strength and rigidity.
- 7 gauge (4.2 mm) steel hinge reinforcement
- Inverted end channels welded to both face sheets
- Rust inhibitive prime paint base coat meets ANSI A250.10

### Available Options

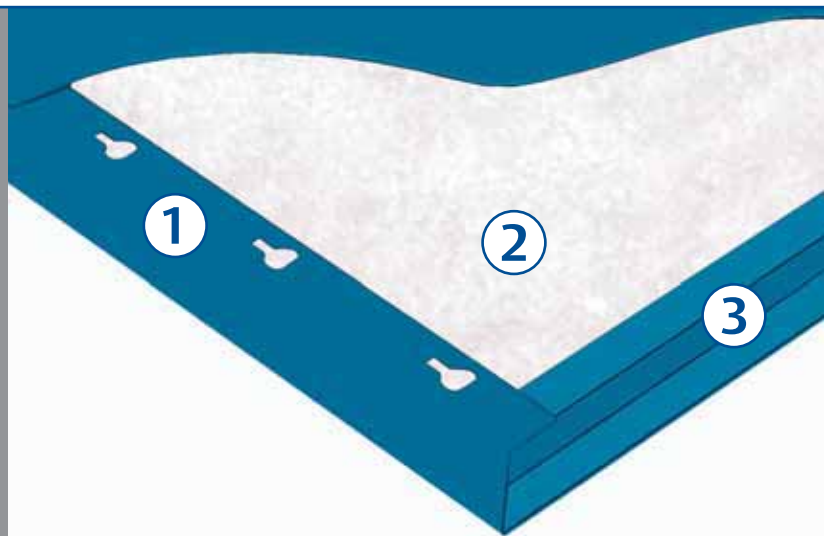
- 14 gauge (1.7mm) closer reinforcement
- Galvannealed, galvanized, or textured pattern steel
- Steel end channel filler cap
- Seamless design by application of epoxy filler or continuous welding
- Applied or flush-welded steel glass kits
- Factory installed insulated glazing
- Colorstyle factory finish (see page 46)
- ElectroLynx® pre-wired quick connect cable (see page 36)

### Legion™

- Handed as specified
- Lock edge beveled 1/8" in 2" (1:16)
- For any standard commercial template hardware

### UltraDor™

- Non-handed
- Square lock edge
- For any standard commercial template hardware



1. Mechanically interlocked, hemmed vertical edge seam for strength and rigidity.
2. Polystyrene core provides insulation characteristics and resistance to impact.
3. Core is chemically bonded providing total surface support.

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## Polystyrene Core

| DOOR LEVEL AVAILABILITY             |          |       |       |     |
|-------------------------------------|----------|-------|-------|-----|
| MODEL                               | TYPE     | GAUGE | DEC   | MM  |
| LEVEL 1 LIGHT COMMERCIAL            |          |       |       |     |
| 1                                   | Flush    | 20    | 0.032 | 0.8 |
| 2                                   | Seamless | 20    | 0.032 | 0.8 |
| LEVEL 2 HEAVY-DUTY COMMERCIAL       |          |       |       |     |
| 1                                   | Flush    | 18    | 0.042 | 1.0 |
| 2                                   | Seamless | 18    | 0.042 | 1.0 |
| LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL |          |       |       |     |
| 1                                   | Flush    | 16    | 0.053 | 1.3 |
| 2                                   | Seamless | 16    | 0.053 | 1.3 |
| LEVEL 4 MAXIM DUTY COMMERCIAL       |          |       |       |     |
| 1                                   | Flush    | 1.4   | 0.067 | 1.7 |
| 2                                   | Seamless | 1.4   | 0.067 | 1.7 |

## Performance

- Core Material: Polystyrene
- Thermal Characteristics: R Factor 6.35 (ASTM C518)
- Sound Transmission: STC 23 (18 gauge operable)
- Physical Endurance (Cycle Testing)



## Physical Endurance (Cycle Testing)

|          |         |                  |
|----------|---------|------------------|
| 20 gauge | Level C | 250,000 cycles   |
| 18 gauge | Level B | 500,000 cycles   |
| 16 gauge | Level A | 1,000,000 cycles |
| 14 gauge | Level A | 1,000,000 cycles |

Fire Label (Rating): see page 43 for additional information on fire doors

|   |            |
|---|------------|
| T | 20 minute  |
| C | 3/4 hour   |
| O | 1 hour     |
| B | 1-1/2 hour |
| A | 3 hour     |

## Maximum Size

|        |                            |
|--------|----------------------------|
| Single | 40 x 100 (1219mm x 3048mm) |
| Pair   | 80 x 100 (1219mm x 3048mm) |