

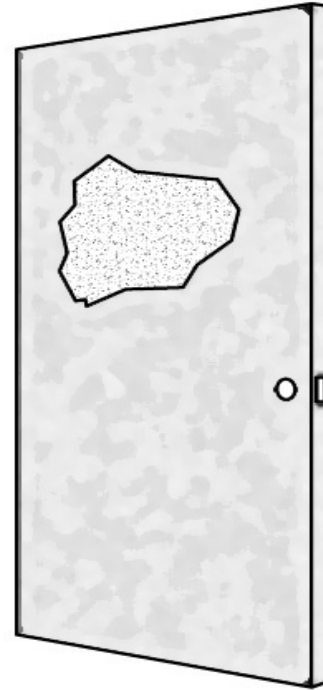
HT-HTF-CHT SERIES

URETHANE CORE LOCK SEAM AND SEAMWELDED DOOR

SERIES HT Lockseam and SERIES HTF -CHT Seamless

Specifications

- HT, HTF doors shall be formed from two 16 or 18 gage A60 Galvannealed steel per ASTM A924 and A653 sheets and shall be 1-3/4" thick.
- CHT doors shall be formed from two 14, 16 or 18 gage A60 Galvannealed steel ASTM A924 and A653 sheets and shall be 1-3/4" thick.
- Doors shall have a core of rigid Urethane, securely bonded to both face sheets developing a dense uniform structure of high insulation values and thermal barrier qualities, structural strength, impact resistance and sound retardation. The door achieved STC rating of 31 as a panel. The core shall have a nominal density of 1.90 #/ft³, with an "R" factor of 2.92. The door panel shall develop a "U" factor of 0.34 per ASTM C1363.
- HT doors shall have vertical mechanical interlocking seams on hinge and lock edges. There shall be no seams on the faces of door.
- HTF and CHT doors shall have no seams on the faces or edges of doors.
- Vertical edges of CHT doors shall be continuously seam-welded full height of the door.
- Vertical edges of HTF doors shall be tack welded and filled smooth for seamless appearance.
- Exterior doors shall be capped to retard moisture penetrating the door.
- All hinge reinforcements shall be 3/16" thick.
- All doors shall be internally reinforced with a 14 gage plate both sides of the door for application of surface applied door closures and holders.
- Glass light shall be Pioneer standard steel vision kits with no exposed screws on the secure side of door.
- All doors shall be cleaned and given one coat of rust-inhibitive metal primer in compliance with ANSI A 250.10.
- Doors shall be packaged to minimize damage in transit and handling.
- Door construction complies with ANSI A250.8. (SDI 100) $\alpha \hat{a} \hat{A}$ PTT $\hat{C} \hat{I} \hat{I}$
- Hardware reinforcements are in accordance with ANSI A250.6.
- HT, HTF or CHT Series Doors are not Fire Rated.



Insulation Values

Factor	Definition																				
K	The rate at which heat flows thru a material. Values for insulation are normally based on one inch thickness of a single homogeneous material and are expressed in BTU/ft ² /°F/hr/inch.																				
C	The rate at which heat flows thru a material of any given thickness. The "C" factor at one inch = "K" factor. The "C" factor of the same material at three inches is 1/3 of the "K" factor; at two inches the "C" factor is 1/2 the "K" factor.																				
U	The overall coefficient of heat transfer (conductivity) for all elements of construction (as well as environmental factors). A "U" factor is determined by adding the "C" factors of the various individual materials making up the composite structure. Units are expressed as BTU/ft ² /°F/hr.																				
R	A measure of the resistance to heat flow. As the thickness of the insulation material increases, the resistance to the heat flow increases. See the following common insulation materials for typical "R" factors.																				
	<table border="1"> <thead> <tr> <th>Material</th> <th>1" thick</th> <th>2" thick</th> <th>3" thick</th> </tr> </thead> <tbody> <tr> <td>Urethane</td> <td>7.0</td> <td>13.0</td> <td>20.0</td> </tr> <tr> <td>Polystyrene</td> <td>4.1</td> <td>8.0</td> <td>12.0</td> </tr> <tr> <td>Fiberglass (1# or less)</td> <td>4.0</td> <td>8.0</td> <td>12.0</td> </tr> <tr> <td>Vermiculite</td> <td>2.0</td> <td>3.6</td> <td>5.5</td> </tr> </tbody> </table>	Material	1" thick	2" thick	3" thick	Urethane	7.0	13.0	20.0	Polystyrene	4.1	8.0	12.0	Fiberglass (1# or less)	4.0	8.0	12.0	Vermiculite	2.0	3.6	5.5
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