

# Upward-Acting Door Selection Criteria

| BUYING DECISION     | PRODUCT        | PRODUCT SPECIFICATION  | FEATURES   | BEST |
|---------------------|----------------|--|--|------|
| Operation           | Sectional Door | Torsion spring (high cycle available)  | <ul style="list-style-type: none"> <li>Door sections are hinged and sections are guided on door track with ball bearing rollers</li> <li>Applications: standard lift, high lift or full vertical lift, depending on headroom</li> <li>Door is balanced throughout the door travel; typically less than 30 pounds of force required throughout the door travel</li> <li>Spring exposed</li> </ul>   | ✓    |
|                     | Rolling Door   | Torsion spring (high cycle available)  | <ul style="list-style-type: none"> <li>Door curtain slides between heavy angle iron guides using end guide wear plates; curtain rolls into a "barrel" above door opening</li> <li>Door balance differs throughout the door travel</li> <li>Out of balance typically adjusted by operator mechanism (gearing changed for doors that are more out of balance)</li> <li>Designed for not more than 25 pounds of force</li> <li>Only small doors use manual push-up operation</li> <li>Able to configure large "special" doors for special applications</li> </ul> |      |
|                     | Sheet Door     | Torsion spring   | <ul style="list-style-type: none"> <li>Balance differs throughout the door travel</li> <li>Out of balance typically adjusted by operator mechanism</li> <li>Designed for not more than 25 pounds of force</li> <li>Doors are lighter than the rolling doors, therefore a larger range available in manual push-up</li> <li>Over 10' x 10' use chain hoist</li> </ul>   |      |
| Appearance          | Sectional Door | Typically 24" high sections hinged together  | <ul style="list-style-type: none"> <li>Very flexible in material (steel and aluminum) and steel gauges,</li> <li>Colors: baked-on enamel or custom finish</li> <li>Multiple exterior appearances (raised panels, flush sections, ribbed, full view glass), various window configurations</li> <li>Various options on insulation types and values</li> </ul>  | ✓    |
|                     | Rolling Door   | Typically 2-5/8" high slats hemmed together  | <ul style="list-style-type: none"> <li>Available in a variety of gauges and materials including aluminum and stainless steel</li> <li>1 or 2 slat profiles; uniform curtain thickness</li> <li>Foamed-in-place urethane insulation, R-value typically less than 8</li> <li>Perforated slats allow for air flow while still providing security</li> <li>Windows are riveted in place; typically 2" x 10"</li> </ul>   |      |
|                     | Sheet Door     | Typically 24" high sections hemmed together  | <ul style="list-style-type: none"> <li>Typically 26 gauge sheets; available in a variety of colors; best paint warranty in the industry (25 year)</li> <li>Small windows</li> <li>Foil covered "blanket" insulation available; R-value 3</li> </ul>  |      |
| Durability          | Sectional Door | More components  | <ul style="list-style-type: none"> <li>Sections hinged with individual hinges spaced no more than 48" on center</li> <li>Ball bearing rollers designed for size and weight of door</li> <li>Torsion spring power unit open; easily lubricated</li> <li>Lift cables designed for 7:1 safety factor</li> </ul>   |      |
|                     | Rolling Door   | Components comprise curtain, springs, guides and operator  | <ul style="list-style-type: none"> <li>Guides are heavy structural steel</li> <li>Springs are enclosed in barrel and hood (not visible)</li> <li>Curtain has continuous hinge (length of section); longer wear point</li> </ul>  | ✓    |
|                     | Sheet Door     | Typically 24" high sections hemmed together; components similar to rolling door                                  | <ul style="list-style-type: none"> <li>Roll-formed guides</li> <li>Enclosed barrel makes spring lubrication difficult</li> </ul>   |      |
| Cost of Maintenance | Sectional Door | More components  | <ul style="list-style-type: none"> <li>More moving components will result in higher maintenance cost</li> <li>Components are readily accessible, enabling routine maintenance and increasing the life of the door</li> <li>Replacement of components typically easier than rolling or sheet doors</li> </ul>   |      |
|                     | Rolling Door   | Components comprise curtain, springs, guides and operator  | <ul style="list-style-type: none"> <li>Guides are heavy structural steel; typically no maintenance required</li> <li>Springs are enclosed in barrel and hood (not visible) and difficult to change/maintain if one breaks</li> <li>Notched guide enables change of slat; difficult to remove and replace damaged slats</li> </ul>  | ✓    |
|                     | Sheet Door     | Typically 24" high sections hemmed together; components similar to rolling door                                  | <ul style="list-style-type: none"> <li>Typically replace entire door sheet</li> <li>Exchange entire barrel if spring is broken</li> </ul>  |      |
| Energy Efficiency   | Sectional Door | Expanded polystyrene; CFC-free urethane  | <ul style="list-style-type: none"> <li>Options for friction fit or sandwich (bonded) structure</li> <li>R-values up to 17.2</li> <li>U-values enabling government energy tax credits</li> <li>Vary by section thickness</li> </ul>   | ✓    |
|                     | Rolling Door   | CFC-free urethane insulation or mineral wool insulation in fire doors  | <ul style="list-style-type: none"> <li>Foamed-in-place between inside and outside slat cover; no thermal break</li> <li>R-value up to 8.1</li> <li>Mineral wool R-value up to 3</li> </ul>   |      |
|                     | Sheet Door     | Loose-fitting foil covered "blanket" of mineral wool   | <ul style="list-style-type: none"> <li>Foil covered mineral wool "blanket" held in place by "stays"</li> <li>Rolls onto curtain barrel; not protected from the environment on inside of door</li> </ul>  |      |
| Initial Cost        | Sectional Door | Modest initial material cost; modest installation cost   | <ul style="list-style-type: none"> <li>Different options determine initial cost of product; typically slightly higher than sheet door</li> <li>Depending on size of door, installation time and costs slightly higher than rolling steel or sheet doors because of the number of components and varying applications</li> </ul>  |      |
|                     | Rolling Door   | Initial cost higher; installation time and expense depends on size of door                                       | <ul style="list-style-type: none"> <li>Different options determine initial cost of product; typically slightly higher than sectional and sheet door</li> <li>Depending on size of door, installation time and costs slightly higher than sheet doors; weight of the door necessitates heavier equipment</li> </ul>   |      |
|                     | Sheet Door     | Initial cost similar to sectional door; installation time and expertise required typically least in the industry | <ul style="list-style-type: none"> <li>Different options determine initial cost of product; typically slightly less than sectional door</li> <li>Depending on size of door, installation time and costs less than sectional doors</li> </ul>   | ✓    |