

## Karona Fire Door Options & Restrictions

| All dimensions are in inches unless otherwise indicated. |   | 20 Minute Neutral  |          | 20 Minute Positive                                    |          | 45/60 Minute Positive                                    |          | 90 Minute Positive   |          |  |
|--|---|--|----------|---|----------|--|----------|--|----------|--|
|  |   | Min  | Max      | Min   | Max      | Min  | Max      | Min  | Max      |  |
| Door<br>Single   | Width                                     | 24   | 48       | 24  | 48       | 24   | 48       | 24   | 48       |  |
|  | Height                                    | 72   | 108      | 72  | 96       | 72   | 96       | 72   | 96       |  |
|  | Thickness                                 | 1.75   | 2.25     | 1.75  | 2.25     | 1.75   | 2.25     | 2.25   | 2.25     |  |
| Door<br>Pair   | Width                                     | 48   | 96       | 48  | 84       | 48   | 84       | 48   | 84       |  |
|  | Height                                    | 72   | 108      | 72  | 96       | 72   | 96       | 72   | 96       |  |
|  | Thickness                                 | 1.75   | 2.25     | 1.75  | 2.25     | 1.75   | 2.25     | 2.25   | 2.25     |  |
| Stiles & Rails   | Stiles                                    | 4  | 12       | 4   | 12       | 4  | 12       | 5  | 12       |  |
|  | Top Rail                                  | 4  | 12       | 4   | 12       | 4  | 12       | 5  | 12       |  |
|  | Bottom Rail                               | 4  | 18       | 6   | 18       | 6  | 18       | 6  | 18       |  |
|  | Center Rail & Mullions                    | 2  | 18       | 2   | 18       | 2  | 18       | 2  | 18       |  |
|  | Sticking Options                          | Ogee, Ovolo, Mission, Square, Classic, Special   |          | Ogee, Ovolo, Mission, Square, Classic, Special        |          | Ogee, Ovolo, Mission, Square, Classic, Special           |          | Ogee <sup>^</sup> , Ovolo, Mission, Square, Classic <sup>^</sup> , Special |          |  |
|  | Face Molding                              | Available  |          | Available   |          | Available  |          | Available  |          |  |
| Panels   | Raised Panel Width                        | 6  | 40       | 6   | 26       | 1  | 40       | 9.375  | 40       |  |
|  | Raised Panel Height                       | 6  | 85       | 6   | 51       | 1  | 88       | 6.125  | 88       |  |
|  | Flat Panel Width                          | 6  | 40       | 6   | 26       | 1  | 40       | 6.125  | 40       |  |
|  | Flat Panel Height                         | 6  | 85       | 6   | 51       | 1  | 88       | 9.375  | 88       |  |
|  | Panel Options                             | Raised, Flat, Step, Rim-Band, Arch, Radius, Lafayette  |          | Raised, Flat, Step, Rim-band, Arch, Radius, Lafayette |          | Raised, Flat, Step, Rim-band, Arch*, Radius*, Lafayette* |          | Raised, Flat, Step*, Rim-band*, Arch*, Radius*, Lafayette*                 |          |  |
|  | V-Groove Options                          | Raised, Step & Flat  |          | Raised, Step & Flat                                   |          | Raised, Step & Flat*                                     |          | Raised & Step  |          |  |
| Glass  | Glass Width                               | 4  | 26       | 4   | 25.75    | 4  | 54       | 4  | 36       |  |
|  | Glass Height                              | 4  | 40       | 4   | 39.75    | 4  | 54       | 4  | 36       |  |
|  | Glass Area (Sq. Inch)                     | 16   | 1040     | 16  | 988      | 16   | 1296     | 16   | 600      |  |
|  | Light to Lock Restriction                 | 5  | 48       | 1.188   | 48       | 1.188  | 48       | 1.188  | 48       |  |
|  | Glass Options                             | Open for glass option  | Wire     |   | Wire     |  | Wire     |  | Wire     |  |
|  |   | Must be 1/4" rated   | Firelite |   | Firelite |  | Firelite |  | Firelite |  |
| Fire clips mandatory                                     |   | Firelite Plus  |          | Firelite Plus   |          | Firelite Plus  |          | Firelite Plus  |          |  |
| Machining  | Machining Restrictions                    | Positive latching hardware with a listed surface mount closer or spring hinge must be used. Concealed closers available on 20-90 minute doors. |          |   |          |  |          |  |          |  |
|  |   | Concealed vertical rods (CVR) available up to 60 minute.   |          |   |          |  |          |  |          |  |
|  |   | Double egress pair available up to 90 minute.  |          |   |          |  |          |  |          |  |
|  |   | Wire race ways allowable in all doors  |          |   |          |  |          |  |          |  |
|  |   | AA & RR tops available up to 60 minutes  |          |   |          |  |          |  |          |  |
|  |   | Listed viewers can be used up to 1" diameter.  |          |   |          |  |          |  |          |  |
|  | Surface & Mortise auto bottoms (1 x 1.75) |  |          |   |          |  |          |  |          |  |
| Fire Treated EB-Pair?                                    | Yes                                       | No   | No       | No  | No       | No   | No       | No   |          |  |

<sup>^</sup> Ogee & Classic not available in 1.75" 90 min pair

(a) Not available in CC construction