

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Weight (psf) | Wind Vel. A (mph) | Wind Load A (psf) | Wind Vel. B (mph) | Wind Load B (psf) | Wind Vel. C (mph) | Wind Load C (psf) |
|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 10.0         | 190               | 75.4              | 40                | 4.6               | 115               | 31.0              |

Wind Load A = Extreme Building Code design speed

Wind Load B = Maximum wind speed while operating door

Wind Load C = Maximum wind speed while door open

Base Reaction = Reaction of jamb column into floor slab

Top reaction = Reaction of jamb column to building column/frame beam

Wind Exposure = C

Notes:

(+) Base Vertical Reaction = Down

(+) Top Vertical Reaction = Up

(+) Base Vertical Reaction = Down

(+) Top Horizontal Reaction = Inwards

\* - Reaction inward or outward

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| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 30         | 10          | 6396                 | 1500      | 4920             | 0         | 216                   | 1989      | 273              | 0         | 522                | 1500      | -522             | 0         |
| 30         | 12          | 7544                 | 1800      | 6035             | 0         | 346                   | 2386      | 240              | 0         | 667                | 1800      | -667             | 0         |
| 30         | 14          | 8688                 | 2100      | 7155             | 0         | 347                   | 2784      | 337              | 0         | 627                | 2100      | -627             | 0         |
| 30         | 16          | 9829                 | 2400      | 8277             | 0         | 342                   | 3182      | 439              | 0         | 577                | 2400      | -577             | 0         |
| 30         | 18          | 10968                | 2700      | 9401             | 0         | 419                   | 3580      | 461              | 0         | 641                | 2700      | -641             | 0         |
| 30         | 20          | 12106                | 3000      | 10527            | 0         | 454                   | 3977      | 523              | 0         | 646                | 3000      | -646             | 0         |
| 30         | 22          | 13243                | 3300      | 11654            | 0         | 476                   | 4375      | 599              | 0         | 632                | 3300      | -632             | 0         |
| 30         | 24          | 14379                | 3600      | 12781            | 0         | 511                   | 4773      | 661              | 0         | 635                | 3600      | -635             | 0         |
| 30         | 26          | 15514                | 3900      | 13909            | 0         | 546                   | 5170      | 724              | 0         | 638                | 3900      | -638             | 0         |
| 30         | 28          | 16649                | 4200      | 15037            | 0         | 581                   | 5568      | 787              | 0         | 641                | 4200      | -641             | 0         |
| 30         | 30          | 17783                | 4500      | 16166            | 0         | 616                   | 5966      | 850              | 0         | 643                | 4500      | -643             | 0         |
| 30         | 32          | 18917                | 4800      | 17296            | 0         | 651                   | 6364      | 912              | 0         | 645                | 4800      | -645             | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 32         | 10          | 6823                 | 1600      | 5248             | 0         | 230                   | 2121      | 291              | 0         | 557                | 1600      | -557             | 0         |
| 32         | 12          | 8047                 | 1920      | 6438             | 0         | 369                   | 2545      | 256              | 0         | 711                | 1920      | -711             | 0         |
| 32         | 14          | 9267                 | 2240      | 7632             | 0         | 370                   | 2970      | 359              | 0         | 669                | 2240      | -669             | 0         |
| 32         | 16          | 10484                | 2560      | 8829             | 0         | 365                   | 3394      | 469              | 0         | 616                | 2560      | -616             | 0         |
| 32         | 18          | 11699                | 2880      | 10028            | 0         | 447                   | 3818      | 492              | 0         | 684                | 2880      | -684             | 0         |
| 32         | 20          | 12913                | 3200      | 11229            | 0         | 484                   | 4242      | 558              | 0         | 689                | 3200      | -689             | 0         |
| 32         | 22          | 14125                | 3520      | 12430            | 0         | 508                   | 4667      | 639              | 0         | 674                | 3520      | -674             | 0         |
| 32         | 24          | 15337                | 3840      | 13633            | 0         | 546                   | 5091      | 705              | 0         | 678                | 3840      | -678             | 0         |
| 32         | 26          | 16548                | 4160      | 14836            | 0         | 583                   | 5515      | 772              | 0         | 681                | 4160      | -681             | 0         |
| 32         | 28          | 17758                | 4480      | 16040            | 0         | 620                   | 5939      | 839              | 0         | 683                | 4480      | -683             | 0         |
| 32         | 30          | 18968                | 4800      | 17244            | 0         | 657                   | 6364      | 906              | 0         | 686                | 4800      | -686             | 0         |
| 32         | 32          | 20178                | 5120      | 18449            | 0         | 695                   | 6788      | 973              | 0         | 688                | 5120      | -688             | 0         |

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| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 34         | 10          | 7249                 | 1700      | 5576             | 0         | 245                   | 2254      | 309              | 0         | 591                | 1700      | -591             | 0         |
| 34         | 12          | 8550                 | 2040      | 6840             | 0         | 392                   | 2705      | 273              | 0         | 756                | 2040      | -756             | 0         |
| 34         | 14          | 9847                 | 2380      | 8109             | 0         | 394                   | 3155      | 382              | 0         | 711                | 2380      | -711             | 0         |
| 34         | 16          | 11140                | 2720      | 9381             | 0         | 388                   | 3606      | 498              | 0         | 654                | 2720      | -654             | 0         |
| 34         | 18          | 12431                | 3060      | 10655            | 0         | 474                   | 4057      | 522              | 0         | 727                | 3060      | -727             | 0         |
| 34         | 20          | 13720                | 3400      | 11931            | 0         | 515                   | 4508      | 593              | 0         | 732                | 3400      | -732             | 0         |
| 34         | 22          | 15008                | 3740      | 13207            | 0         | 540                   | 4958      | 678              | 0         | 716                | 3740      | -716             | 0         |
| 34         | 24          | 16296                | 4080      | 14485            | 0         | 580                   | 5409      | 749              | 0         | 720                | 4080      | -720             | 0         |
| 34         | 26          | 17582                | 4420      | 15763            | 0         | 619                   | 5860      | 821              | 0         | 723                | 4420      | -723             | 0         |
| 34         | 28          | 18868                | 4760      | 17042            | 0         | 659                   | 6311      | 892              | 0         | 726                | 4760      | -726             | 0         |
| 34         | 30          | 20154                | 5100      | 18322            | 0         | 698                   | 6761      | 963              | 0         | 729                | 5100      | -729             | 0         |
| 34         | 32          | 21439                | 5440      | 19602            | 0         | 738                   | 7212      | 1034             | 0         | 731                | 5440      | -731             | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 36         | 10          | 7675                 | 1800      | 5904             | 0         | 259                   | 2386      | 327              | 0         | 626                | 1800      | -626             | 0         |
| 36         | 12          | 9053                 | 2160      | 7243             | 0         | 415                   | 2864      | 289              | 0         | 800                | 2160      | -800             | 0         |
| 36         | 14          | 10426                | 2520      | 8586             | 0         | 417                   | 3341      | 404              | 0         | 753                | 2520      | -753             | 0         |
| 36         | 16          | 11795                | 2880      | 9933             | 0         | 411                   | 3818      | 527              | 0         | 693                | 2880      | -693             | 0         |
| 36         | 18          | 13162                | 3240      | 11282            | 0         | 502                   | 4295      | 553              | 0         | 769                | 3240      | -769             | 0         |
| 36         | 20          | 14527                | 3600      | 12632            | 0         | 545                   | 4773      | 628              | 0         | 775                | 3600      | -775             | 0         |
| 36         | 22          | 15891                | 3960      | 13984            | 0         | 572                   | 5250      | 718              | 0         | 758                | 3960      | -758             | 0         |
| 36         | 24          | 17254                | 4320      | 15337            | 0         | 614                   | 5727      | 794              | 0         | 762                | 4320      | -762             | 0         |
| 36         | 26          | 18617                | 4680      | 16691            | 0         | 656                   | 6205      | 869              | 0         | 766                | 4680      | -766             | 0         |
| 36         | 28          | 19978                | 5040      | 18045            | 0         | 698                   | 6682      | 944              | 0         | 769                | 5040      | -769             | 0         |
| 36         | 30          | 21340                | 5400      | 19400            | 0         | 740                   | 7159      | 1020             | 0         | 771                | 5400      | -771             | 0         |
| 36         | 32          | 22700                | 5760      | 20755            | 0         | 781                   | 7636      | 1095             | 0         | 774                | 5760      | -774             | 0         |

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| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 38         | 10          | 0                    | 1900      | 6232             | 0         | 274                   | 2519      | 345              | 0         | 661                | 1900      | -661             | 0         |
| 38         | 12          | 0                    | 2280      | 7645             | 0         | 438                   | 3023      | 305              | 0         | 844                | 2280      | -844             | 0         |
| 38         | 14          | 0                    | 2660      | 9063             | 0         | 440                   | 3527      | 427              | 0         | 795                | 2660      | -795             | 0         |
| 38         | 16          | 0                    | 3040      | 10484            | 0         | 434                   | 4030      | 557              | 0         | 731                | 3040      | -731             | 0         |
| 38         | 18          | 0                    | 3420      | 11908            | 0         | 530                   | 4534      | 584              | 0         | 812                | 3420      | -812             | 0         |
| 38         | 20          | 0                    | 3800      | 13334            | 0         | 575                   | 5038      | 663              | 0         | 818                | 3800      | -818             | 0         |
| 38         | 22          | 0                    | 4180      | 14761            | 0         | 603                   | 5542      | 758              | 0         | 800                | 4180      | -800             | 0         |
| 38         | 24          | 0                    | 4560      | 16189            | 0         | 648                   | 6045      | 838              | 0         | 805                | 4560      | -805             | 0         |
| 38         | 26          | 0                    | 4940      | 17618            | 0         | 692                   | 6549      | 917              | 0         | 808                | 4940      | -808             | 0         |
| 38         | 28          | 0                    | 5320      | 19047            | 0         | 736                   | 7053      | 997              | 0         | 812                | 5320      | -812             | 0         |
| 38         | 30          | 0                    | 5700      | 20477            | 0         | 781                   | 7557      | 1076             | 0         | 814                | 5700      | -814             | 0         |
| 38         | 32          | 0                    | 6080      | 21908            | 0         | 825                   | 8061      | 1156             | 0         | 817                | 6080      | -817             | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 40         | 10          | 8528                 | 2000      | 6560             | 0         | 288                   | 2652      | 363              | 0         | 696                | 2000      | -696             | 0         |
| 40         | 12          | 10059                | 2400      | 8047             | 0         | 461                   | 3182      | 321              | 0         | 889                | 2400      | -889             | 0         |
| 40         | 14          | 11584                | 2800      | 9540             | 0         | 463                   | 3712      | 449              | 0         | 836                | 2800      | -836             | 0         |
| 40         | 16          | 13106                | 3200      | 11036            | 0         | 456                   | 4242      | 586              | 0         | 770                | 3200      | -770             | 0         |
| 40         | 18          | 14624                | 3600      | 12535            | 0         | 558                   | 4773      | 615              | 0         | 855                | 3600      | -855             | 0         |
| 40         | 20          | 16141                | 4000      | 14036            | 0         | 605                   | 5303      | 698              | 0         | 861                | 4000      | -861             | 0         |
| 40         | 22          | 17657                | 4400      | 15538            | 0         | 635                   | 5833      | 798              | 0         | 843                | 4400      | -843             | 0         |
| 40         | 24          | 19171                | 4800      | 17041            | 0         | 682                   | 6364      | 882              | 0         | 847                | 4800      | -847             | 0         |
| 40         | 26          | 20685                | 5200      | 18545            | 0         | 729                   | 6894      | 965              | 0         | 851                | 5200      | -851             | 0         |
| 40         | 28          | 22198                | 5600      | 20050            | 0         | 775                   | 7424      | 1049             | 0         | 854                | 5600      | -854             | 0         |
| 40         | 30          | 23711                | 6000      | 21555            | 0         | 822                   | 7955      | 1133             | 0         | 857                | 6000      | -857             | 0         |
| 40         | 32          | 25223                | 6400      | 23061            | 0         | 868                   | 8485      | 1217             | 0         | 860                | 6400      | -860             | 0         |

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| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 42         | 10          | 8955                 | 2100      | 6888             | 0         | 303                   | 2784      | 382              | 0         | 730                | 2100      | -730             | 0         |
| 42         | 12          | 10562                | 2520      | 8450             | 0         | 484                   | 3341      | 337              | 0         | 933                | 2520      | -933             | 0         |
| 42         | 14          | 12163                | 2940      | 10017            | 0         | 486                   | 3898      | 472              | 0         | 878                | 2940      | -878             | 0         |
| 42         | 16          | 13761                | 3360      | 11588            | 0         | 479                   | 4455      | 615              | 0         | 808                | 3360      | -808             | 0         |
| 42         | 18          | 15356                | 3780      | 13162            | 0         | 586                   | 5011      | 645              | 0         | 898                | 3780      | -898             | 0         |
| 42         | 20          | 16948                | 4200      | 14738            | 0         | 636                   | 5568      | 732              | 0         | 904                | 4200      | -904             | 0         |
| 42         | 22          | 18540                | 4620      | 16315            | 0         | 667                   | 6125      | 838              | 0         | 885                | 4620      | -885             | 0         |
| 42         | 24          | 20130                | 5040      | 17893            | 0         | 716                   | 6682      | 926              | 0         | 889                | 5040      | -889             | 0         |
| 42         | 26          | 21719                | 5460      | 19472            | 0         | 765                   | 7239      | 1014             | 0         | 893                | 5460      | -893             | 0         |
| 42         | 28          | 23308                | 5880      | 21052            | 0         | 814                   | 7795      | 1101             | 0         | 897                | 5880      | -897             | 0         |
| 42         | 30          | 24896                | 6300      | 22633            | 0         | 863                   | 8352      | 1189             | 0         | 900                | 6300      | -900             | 0         |
| 42         | 32          | 26484                | 6720      | 24214            | 0         | 912                   | 8909      | 1277             | 0         | 903                | 6720      | -903             | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 44         | 10          | 9381                 | 2200      | 7216             | 0         | 317                   | 2917      | 400              | 0         | 765                | 2200      | -765             | 0         |
| 44         | 12          | 11065                | 2640      | 8852             | 0         | 507                   | 3500      | 353              | 0         | 978                | 2640      | -978             | 0         |
| 44         | 14          | 12743                | 3080      | 10494            | 0         | 509                   | 4083      | 494              | 0         | 920                | 3080      | -920             | 0         |
| 44         | 16          | 14416                | 3520      | 12140            | 0         | 502                   | 4667      | 645              | 0         | 847                | 3520      | -847             | 0         |
| 44         | 18          | 16087                | 3960      | 13789            | 0         | 614                   | 5250      | 676              | 0         | 940                | 3960      | -940             | 0         |
| 44         | 20          | 17755                | 4400      | 15439            | 0         | 666                   | 5833      | 767              | 0         | 948                | 4400      | -948             | 0         |
| 44         | 22          | 19423                | 4840      | 17092            | 0         | 699                   | 6417      | 878              | 0         | 927                | 4840      | -927             | 0         |
| 44         | 24          | 21089                | 5280      | 18745            | 0         | 750                   | 7000      | 970              | 0         | 932                | 5280      | -932             | 0         |
| 44         | 26          | 22754                | 5720      | 20400            | 0         | 801                   | 7583      | 1062             | 0         | 936                | 5720      | -936             | 0         |
| 44         | 28          | 24418                | 6160      | 22055            | 0         | 853                   | 8167      | 1154             | 0         | 940                | 6160      | -940             | 0         |
| 44         | 30          | 26082                | 6600      | 23711            | 0         | 904                   | 8750      | 1246             | 0         | 943                | 6600      | -943             | 0         |
| 44         | 32          | 27745                | 7040      | 25367            | 0         | 955                   | 9333      | 1338             | 0         | 946                | 7040      | -946             | 0         |

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| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 46         | 10          | 9808                 | 2300      | 7544             | 0         | 331                   | 3049      | 418              | 0         | 800                | 2300      | -800             | 0         |
| 46         | 12          | 11568                | 2760      | 9254             | 0         | 530                   | 3659      | 369              | 0         | 1022               | 2760      | -1022            | 0         |
| 46         | 14          | 13322                | 3220      | 10971            | 0         | 532                   | 4269      | 517              | 0         | 962                | 3220      | -962             | 0         |
| 46         | 16          | 15071                | 3680      | 12692            | 0         | 525                   | 4879      | 674              | 0         | 885                | 3680      | -885             | 0         |
| 46         | 18          | 16818                | 4140      | 14415            | 0         | 642                   | 5489      | 707              | 0         | 983                | 4140      | -983             | 0         |
| 46         | 20          | 18562                | 4600      | 16141            | 0         | 696                   | 6098      | 802              | 0         | 991                | 4600      | -991             | 0         |
| 46         | 22          | 20305                | 5060      | 17869            | 0         | 730                   | 6708      | 918              | 0         | 969                | 5060      | -969             | 0         |
| 46         | 24          | 22047                | 5520      | 19597            | 0         | 784                   | 7318      | 1014             | 0         | 974                | 5520      | -974             | 0         |
| 46         | 26          | 23788                | 5980      | 21327            | 0         | 838                   | 7928      | 1110             | 0         | 979                | 5980      | -979             | 0         |
| 46         | 28          | 25528                | 6440      | 23057            | 0         | 891                   | 8538      | 1206             | 0         | 982                | 6440      | -982             | 0         |
| 46         | 30          | 27267                | 6900      | 24788            | 0         | 945                   | 9148      | 1303             | 0         | 986                | 6900      | -986             | 0         |
| 46         | 32          | 29006                | 7360      | 26520            | 0         | 998                   | 9758      | 1399             | 0         | 989                | 7360      | -989             | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 48         | 10          | 10234                | 2400      | 7872             | 0         | 346                   | 3182      | 436              | 0         | 835                | 2400      | -835             | 0         |
| 48         | 12          | 12071                | 2880      | 9657             | 0         | 553                   | 3818      | 385              | 0         | 1067               | 2880      | -1067            | 0         |
| 48         | 14          | 13901                | 3360      | 11448            | 0         | 556                   | 4455      | 539              | 0         | 1004               | 3360      | -1004            | 0         |
| 48         | 16          | 15727                | 3840      | 13243            | 0         | 548                   | 5091      | 703              | 0         | 924                | 3840      | -924             | 0         |
| 48         | 18          | 17549                | 4320      | 15042            | 0         | 670                   | 5727      | 737              | 0         | 1026               | 4320      | -1026            | 0         |
| 48         | 20          | 19370                | 4800      | 16843            | 0         | 726                   | 6364      | 837              | 0         | 1034               | 4800      | -1034            | 0         |
| 48         | 22          | 21188                | 5280      | 18646            | 0         | 762                   | 7000      | 958              | 0         | 1011               | 5280      | -1011            | 0         |
| 48         | 24          | 23006                | 5760      | 20449            | 0         | 818                   | 7636      | 1058             | 0         | 1016               | 5760      | -1016            | 0         |
| 48         | 26          | 24822                | 6240      | 22254            | 0         | 874                   | 8273      | 1158             | 0         | 1021               | 6240      | -1021            | 0         |
| 48         | 28          | 26638                | 6720      | 24060            | 0         | 930                   | 8909      | 1259             | 0         | 1025               | 6720      | -1025            | 0         |
| 48         | 30          | 28453                | 7200      | 25866            | 0         | 986                   | 9545      | 1359             | 0         | 1029               | 7200      | -1029            | 0         |
| 48         | 32          | 30267                | 7680      | 27673            | 0         | 1042                  | 10182     | 1460             | 0         | 1032               | 7680      | -1032            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 50         | 10          | 10660                | 2500      | 8200             | 0         | 360                   | 3314      | 454              | 0         | 870                | 2500      | -870             | 0         |
| 50         | 12          | 12574                | 3000      | 10059            | 0         | 576                   | 3977      | 401              | 0         | 1111               | 3000      | -1111            | 0         |
| 50         | 14          | 14480                | 3500      | 11925            | 0         | 579                   | 4640      | 561              | 0         | 1045               | 3500      | -1045            | 0         |
| 50         | 16          | 16382                | 4000      | 13795            | 0         | 571                   | 5303      | 732              | 0         | 962                | 4000      | -962             | 0         |
| 50         | 18          | 18280                | 4500      | 15669            | 0         | 698                   | 5966      | 768              | 0         | 1068               | 4500      | -1068            | 0         |
| 50         | 20          | 20177                | 5000      | 17545            | 0         | 757                   | 6629      | 872              | 0         | 1077               | 5000      | -1077            | 0         |
| 50         | 22          | 22071                | 5500      | 19423            | 0         | 794                   | 7292      | 998              | 0         | 1053               | 5500      | -1053            | 0         |
| 50         | 24          | 23964                | 6000      | 21302            | 0         | 852                   | 7955      | 1102             | 0         | 1059               | 6000      | -1059            | 0         |
| 50         | 26          | 25856                | 6500      | 23182            | 0         | 911                   | 8617      | 1207             | 0         | 1064               | 6500      | -1064            | 0         |
| 50         | 28          | 27748                | 7000      | 25062            | 0         | 969                   | 9280      | 1311             | 0         | 1068               | 7000      | -1068            | 0         |
| 50         | 30          | 29638                | 7500      | 26944            | 0         | 1027                  | 9943      | 1416             | 0         | 1071               | 7500      | -1071            | 0         |
| 50         | 32          | 31528                | 8000      | 28826            | 0         | 1085                  | 10606     | 1521             | 0         | 1075               | 8000      | -1075            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 52         | 10          | 11087                | 2600      | 8528             | 0         | 375                   | 3447      | 472              | 0         | 904                | 2600      | -904             | 0         |
| 52         | 12          | 13077                | 3120      | 10461            | 0         | 600                   | 4136      | 417              | 0         | 1156               | 3120      | -1156            | 0         |
| 52         | 14          | 15059                | 3640      | 12402            | 0         | 602                   | 4826      | 584              | 0         | 1087               | 3640      | -1087            | 0         |
| 52         | 16          | 17037                | 4160      | 14347            | 0         | 593                   | 5515      | 762              | 0         | 1001               | 4160      | -1001            | 0         |
| 52         | 18          | 19012                | 4680      | 16296            | 0         | 726                   | 6205      | 799              | 0         | 1111               | 4680      | -1111            | 0         |
| 52         | 20          | 20984                | 5200      | 18247            | 0         | 787                   | 6894      | 907              | 0         | 1120               | 5200      | -1120            | 0         |
| 52         | 22          | 22954                | 5720      | 20199            | 0         | 826                   | 7583      | 1038             | 0         | 1095               | 5720      | -1095            | 0         |
| 52         | 24          | 24923                | 6240      | 22154            | 0         | 887                   | 8273      | 1146             | 0         | 1101               | 6240      | -1101            | 0         |
| 52         | 26          | 26891                | 6760      | 24109            | 0         | 947                   | 8962      | 1255             | 0         | 1106               | 6760      | -1106            | 0         |
| 52         | 28          | 28858                | 7280      | 26065            | 0         | 1008                  | 9651      | 1364             | 0         | 1111               | 7280      | -1111            | 0         |
| 52         | 30          | 30824                | 7800      | 28022            | 0         | 1068                  | 10341     | 1473             | 0         | 1114               | 7800      | -1114            | 0         |
| 52         | 32          | 32790                | 8320      | 29979            | 0         | 1129                  | 11030     | 1582             | 0         | 1118               | 8320      | -1118            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 54         | 10          | 11513                | 2700      | 8856             | 0         | 389                   | 3580      | 491              | 0         | 939                | 2700      | -939             | 0         |
| 54         | 12          | 13580                | 3240      | 10864            | 0         | 623                   | 4295      | 433              | 0         | 1200               | 3240      | -1200            | 0         |
| 54         | 14          | 15639                | 3780      | 12879            | 0         | 625                   | 5011      | 606              | 0         | 1129               | 3780      | -1129            | 0         |
| 54         | 16          | 17692                | 4320      | 14899            | 0         | 616                   | 5727      | 791              | 0         | 1039               | 4320      | -1039            | 0         |
| 54         | 18          | 19743                | 4860      | 16922            | 0         | 754                   | 6443      | 830              | 0         | 1154               | 4860      | -1154            | 0         |
| 54         | 20          | 21791                | 5400      | 18948            | 0         | 817                   | 7159      | 942              | 0         | 1163               | 5400      | -1163            | 0         |
| 54         | 22          | 23837                | 5940      | 20976            | 0         | 858                   | 7875      | 1077             | 0         | 1137               | 5940      | -1137            | 0         |
| 54         | 24          | 25881                | 6480      | 23006            | 0         | 921                   | 8591      | 1190             | 0         | 1144               | 6480      | -1144            | 0         |
| 54         | 26          | 27925                | 7020      | 25036            | 0         | 984                   | 9307      | 1303             | 0         | 1149               | 7020      | -1149            | 0         |
| 54         | 28          | 29967                | 7560      | 27067            | 0         | 1047                  | 10023     | 1416             | 0         | 1153               | 7560      | -1153            | 0         |
| 54         | 30          | 32009                | 8100      | 29099            | 0         | 1109                  | 10739     | 1529             | 0         | 1157               | 8100      | -1157            | 0         |
| 54         | 32          | 34051                | 8640      | 31132            | 0         | 1172                  | 11455     | 1642             | 0         | 1161               | 8640      | -1161            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 56         | 10          | 11940                | 2800      | 9184             | 0         | 403                   | 3712      | 509              | 0         | 974                | 2800      | -974             | 0         |
| 56         | 12          | 14083                | 3360      | 11266            | 0         | 646                   | 4455      | 449              | 0         | 1244               | 3360      | -1244            | 0         |
| 56         | 14          | 16218                | 3920      | 13356            | 0         | 648                   | 5197      | 629              | 0         | 1171               | 3920      | -1171            | 0         |
| 56         | 16          | 18348                | 4480      | 15451            | 0         | 639                   | 5939      | 820              | 0         | 1078               | 4480      | -1078            | 0         |
| 56         | 18          | 20474                | 5040      | 17549            | 0         | 781                   | 6682      | 860              | 0         | 1197               | 5040      | -1197            | 0         |
| 56         | 20          | 22598                | 5600      | 19650            | 0         | 848                   | 7424      | 977              | 0         | 1206               | 5600      | -1206            | 0         |
| 56         | 22          | 24720                | 6160      | 21753            | 0         | 889                   | 8167      | 1117             | 0         | 1180               | 6160      | -1180            | 0         |
| 56         | 24          | 26840                | 6720      | 23858            | 0         | 955                   | 8909      | 1234             | 0         | 1186               | 6720      | -1186            | 0         |
| 56         | 26          | 28959                | 7280      | 25963            | 0         | 1020                  | 9651      | 1351             | 0         | 1191               | 7280      | -1191            | 0         |
| 56         | 28          | 31077                | 7840      | 28070            | 0         | 1085                  | 10394     | 1469             | 0         | 1196               | 7840      | -1196            | 0         |
| 56         | 30          | 33195                | 8400      | 30177            | 0         | 1150                  | 11136     | 1586             | 0         | 1200               | 8400      | -1200            | 0         |
| 56         | 32          | 35312                | 8960      | 32285            | 0         | 1215                  | 11879     | 1703             | 0         | 1204               | 8960      | -1204            | 0         |



HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 58         | 10          | 12366                | 2900      | 9512             | 0         | 418                   | 3845      | 527              | 0         | 1009               | 2900      | -1009            | 0         |
| 58         | 12          | 14586                | 3480      | 11668            | 0         | 669                   | 4614      | 465              | 0         | 1289               | 3480      | -1289            | 0         |
| 58         | 14          | 16797                | 4060      | 13833            | 0         | 671                   | 5383      | 651              | 0         | 1213               | 4060      | -1213            | 0         |
| 58         | 16          | 19003                | 4640      | 16003            | 0         | 662                   | 6151      | 850              | 0         | 1116               | 4640      | -1116            | 0         |
| 58         | 18          | 21205                | 5220      | 18176            | 0         | 809                   | 6920      | 891              | 0         | 1239               | 5220      | -1239            | 0         |
| 58         | 20          | 23405                | 5800      | 20352            | 0         | 878                   | 7689      | 1012             | 0         | 1249               | 5800      | -1249            | 0         |
| 58         | 22          | 25602                | 6380      | 22530            | 0         | 921                   | 8458      | 1157             | 0         | 1222               | 6380      | -1222            | 0         |
| 58         | 24          | 27798                | 6960      | 24710            | 0         | 989                   | 9227      | 1278             | 0         | 1228               | 6960      | -1228            | 0         |
| 58         | 26          | 29993                | 7540      | 26891            | 0         | 1056                  | 9996      | 1400             | 0         | 1234               | 7540      | -1234            | 0         |
| 58         | 28          | 32187                | 8120      | 29072            | 0         | 1124                  | 10765     | 1521             | 0         | 1239               | 8120      | -1239            | 0         |
| 58         | 30          | 34380                | 8700      | 31255            | 0         | 1191                  | 11534     | 1643             | 0         | 1243               | 8700      | -1243            | 0         |
| 58         | 32          | 36573                | 9280      | 33438            | 0         | 1259                  | 12303     | 1764             | 0         | 1247               | 9280      | -1247            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 60         | 10          | 12792                | 3000      | 9840             | 0         | 432                   | 3977      | 545              | 0         | 1043               | 3000      | -1043            | 0         |
| 60         | 12          | 15089                | 3600      | 12071            | 0         | 692                   | 4773      | 481              | 0         | 1333               | 3600      | -1333            | 0         |
| 60         | 14          | 17376                | 4200      | 14310            | 0         | 694                   | 5568      | 674              | 0         | 1255               | 4200      | -1255            | 0         |
| 60         | 16          | 19658                | 4800      | 16554            | 0         | 685                   | 6364      | 879              | 0         | 1155               | 4800      | -1155            | 0         |
| 60         | 18          | 21936                | 5400      | 18803            | 0         | 837                   | 7159      | 922              | 0         | 1282               | 5400      | -1282            | 0         |
| 60         | 20          | 24212                | 6000      | 21054            | 0         | 908                   | 7955      | 1046             | 0         | 1292               | 6000      | -1292            | 0         |
| 60         | 22          | 26485                | 6600      | 23307            | 0         | 953                   | 8750      | 1197             | 0         | 1264               | 6600      | -1264            | 0         |
| 60         | 24          | 28757                | 7200      | 25562            | 0         | 1023                  | 9545      | 1323             | 0         | 1271               | 7200      | -1271            | 0         |
| 60         | 26          | 31028                | 7800      | 27818            | 0         | 1093                  | 10341     | 1448             | 0         | 1276               | 7800      | -1276            | 0         |
| 60         | 28          | 33297                | 8400      | 30075            | 0         | 1163                  | 11136     | 1574             | 0         | 1281               | 8400      | -1281            | 0         |
| 60         | 30          | 35566                | 9000      | 32333            | 0         | 1233                  | 11932     | 1699             | 0         | 1286               | 9000      | -1286            | 0         |
| 60         | 32          | 37834                | 9600      | 34591            | 0         | 1302                  | 12727     | 1825             | 0         | 1290               | 9600      | -1290            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 62         | 10          | 13219                | 3100      | 10168            | 0         | 447                   | 4110      | 563              | 0         | 1078               | 3100      | -1078            | 0         |
| 62         | 12          | 15592                | 3720      | 12473            | 0         | 715                   | 4932      | 497              | 0         | 1378               | 3720      | -1378            | 0         |
| 62         | 14          | 17955                | 4340      | 14787            | 0         | 718                   | 5754      | 696              | 0         | 1296               | 4340      | -1296            | 0         |
| 62         | 16          | 20314                | 4960      | 17106            | 0         | 708                   | 6576      | 908              | 0         | 1193               | 4960      | -1193            | 0         |
| 62         | 18          | 22668                | 5580      | 19429            | 0         | 865                   | 7398      | 952              | 0         | 1325               | 5580      | -1325            | 0         |
| 62         | 20          | 25019                | 6200      | 21756            | 0         | 938                   | 8220      | 1081             | 0         | 1335               | 6200      | -1335            | 0         |
| 62         | 22          | 27368                | 6820      | 24084            | 0         | 985                   | 9042      | 1237             | 0         | 1306               | 6820      | -1306            | 0         |
| 62         | 24          | 29716                | 7440      | 26414            | 0         | 1057                  | 9864      | 1367             | 0         | 1313               | 7440      | -1313            | 0         |
| 62         | 26          | 32062                | 8060      | 28745            | 0         | 1129                  | 10686     | 1496             | 0         | 1319               | 8060      | -1319            | 0         |
| 62         | 28          | 34407                | 8680      | 31077            | 0         | 1202                  | 11508     | 1626             | 0         | 1324               | 8680      | -1324            | 0         |
| 62         | 30          | 36751                | 9300      | 33410            | 0         | 1274                  | 12330     | 1756             | 0         | 1329               | 9300      | -1329            | 0         |
| 62         | 32          | 39095                | 9920      | 35744            | 0         | 1346                  | 13151     | 1886             | 0         | 1333               | 9920      | -1333            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 64         | 10          | 13645                | 3200      | 10496            | 0         | 461                   | 4242      | 581              | 0         | 1113               | 3200      | -1113            | 0         |
| 64         | 12          | 16094                | 3840      | 12876            | 0         | 738                   | 5091      | 513              | 0         | 1422               | 3840      | -1422            | 0         |
| 64         | 14          | 18535                | 4480      | 15264            | 0         | 741                   | 5939      | 719              | 0         | 1338               | 4480      | -1338            | 0         |
| 64         | 16          | 20969                | 5120      | 17658            | 0         | 730                   | 6788      | 938              | 0         | 1232               | 5120      | -1232            | 0         |
| 64         | 18          | 23399                | 5760      | 20056            | 0         | 893                   | 7636      | 983              | 0         | 1368               | 5760      | -1368            | 0         |
| 64         | 20          | 25826                | 6400      | 22457            | 0         | 969                   | 8485      | 1116             | 0         | 1378               | 6400      | -1378            | 0         |
| 64         | 22          | 28251                | 7040      | 24861            | 0         | 1016                  | 9333      | 1277             | 0         | 1348               | 7040      | -1348            | 0         |
| 64         | 24          | 30674                | 7680      | 27266            | 0         | 1091                  | 10182     | 1411             | 0         | 1355               | 7680      | -1355            | 0         |
| 64         | 26          | 33096                | 8320      | 29672            | 0         | 1166                  | 11030     | 1544             | 0         | 1361               | 8320      | -1361            | 0         |
| 64         | 28          | 35517                | 8960      | 32080            | 0         | 1240                  | 11879     | 1678             | 0         | 1367               | 8960      | -1367            | 0         |
| 64         | 30          | 37937                | 9600      | 34488            | 0         | 1315                  | 12727     | 1812             | 0         | 1371               | 9600      | -1371            | 0         |
| 64         | 32          | 40356                | 10240     | 36897            | 0         | 1389                  | 13576     | 1947             | 0         | 1376               | 10240     | -1376            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 66         | 10          | 14072                | 3300      | 10824            | 0         | 475                   | 4375      | 600              | 0         | 1148               | 3300      | -1148            | 0         |
| 66         | 12          | 16597                | 3960      | 13278            | 0         | 761                   | 5250      | 529              | 0         | 1467               | 3960      | -1467            | 0         |
| 66         | 14          | 19114                | 4620      | 15741            | 0         | 764                   | 6125      | 741              | 0         | 1380               | 4620      | -1380            | 0         |
| 66         | 16          | 21624                | 5280      | 18210            | 0         | 753                   | 7000      | 967              | 0         | 1270               | 5280      | -1270            | 0         |
| 66         | 18          | 24130                | 5940      | 20683            | 0         | 921                   | 7875      | 1014             | 0         | 1410               | 5940      | -1410            | 0         |
| 66         | 20          | 26633                | 6600      | 23159            | 0         | 999                   | 8750      | 1151             | 0         | 1421               | 6600      | -1421            | 0         |
| 66         | 22          | 29134                | 7260      | 25638            | 0         | 1048                  | 9625      | 1317             | 0         | 1390               | 7260      | -1390            | 0         |
| 66         | 24          | 31633                | 7920      | 28118            | 0         | 1125                  | 10500     | 1455             | 0         | 1398               | 7920      | -1398            | 0         |
| 66         | 26          | 34130                | 8580      | 30600            | 0         | 1202                  | 11375     | 1593             | 0         | 1404               | 8580      | -1404            | 0         |
| 66         | 28          | 36627                | 9240      | 33082            | 0         | 1279                  | 12250     | 1731             | 0         | 1409               | 9240      | -1409            | 0         |
| 66         | 30          | 39123                | 9900      | 35566            | 0         | 1356                  | 13125     | 1869             | 0         | 1414               | 9900      | -1414            | 0         |
| 66         | 32          | 41617                | 10560     | 38050            | 0         | 1432                  | 14000     | 2007             | 0         | 1419               | 10560     | -1419            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 68         | 10          | 14498                | 3400      | 11152            | 0         | 490                   | 4508      | 618              | 0         | 1183               | 3400      | -1183            | 0         |
| 68         | 12          | 17100                | 4080      | 13680            | 0         | 784                   | 5409      | 545              | 0         | 1511               | 4080      | -1511            | 0         |
| 68         | 14          | 19693                | 4760      | 16218            | 0         | 787                   | 6311      | 764              | 0         | 1422               | 4760      | -1422            | 0         |
| 68         | 16          | 22279                | 5440      | 18762            | 0         | 776                   | 7212      | 996              | 0         | 1309               | 5440      | -1309            | 0         |
| 68         | 18          | 24861                | 6120      | 21310            | 0         | 949                   | 8114      | 1045             | 0         | 1453               | 6120      | -1453            | 0         |
| 68         | 20          | 27440                | 6800      | 23861            | 0         | 1029                  | 9015      | 1186             | 0         | 1464               | 6800      | -1464            | 0         |
| 68         | 22          | 30017                | 7480      | 26415            | 0         | 1080                  | 9917      | 1357             | 0         | 1432               | 7480      | -1432            | 0         |
| 68         | 24          | 32591                | 8160      | 28970            | 0         | 1159                  | 10818     | 1499             | 0         | 1440               | 8160      | -1440            | 0         |
| 68         | 26          | 35165                | 8840      | 31527            | 0         | 1239                  | 11720     | 1641             | 0         | 1447               | 8840      | -1447            | 0         |
| 68         | 28          | 37737                | 9520      | 34085            | 0         | 1318                  | 12621     | 1783             | 0         | 1452               | 9520      | -1452            | 0         |
| 68         | 30          | 40308                | 10200     | 36644            | 0         | 1397                  | 13523     | 1926             | 0         | 1457               | 10200     | -1457            | 0         |
| 68         | 32          | 42879                | 10880     | 39203            | 0         | 1476                  | 14424     | 2068             | 0         | 1461               | 10880     | -1461            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 70         | 10          | 14925                | 3500      | 11480            | 0         | 504                   | 4640      | 636              | 0         | 1217               | 3500      | -1217            | 0         |
| 70         | 12          | 17603                | 4200      | 14083            | 0         | 807                   | 5568      | 561              | 0         | 1556               | 4200      | -1556            | 0         |
| 70         | 14          | 20272                | 4900      | 16695            | 0         | 810                   | 6496      | 786              | 0         | 1464               | 4900      | -1464            | 0         |
| 70         | 16          | 22935                | 5600      | 19313            | 0         | 799                   | 7424      | 1025             | 0         | 1347               | 5600      | -1347            | 0         |
| 70         | 18          | 25593                | 6300      | 21936            | 0         | 977                   | 8352      | 1075             | 0         | 1496               | 6300      | -1496            | 0         |
| 70         | 20          | 28247                | 7000      | 24563            | 0         | 1059                  | 9280      | 1221             | 0         | 1507               | 7000      | -1507            | 0         |
| 70         | 22          | 30899                | 7700      | 27192            | 0         | 1112                  | 10208     | 1397             | 0         | 1474               | 7700      | -1474            | 0         |
| 70         | 24          | 33550                | 8400      | 29822            | 0         | 1193                  | 11136     | 1543             | 0         | 1482               | 8400      | -1482            | 0         |
| 70         | 26          | 36199                | 9100      | 32454            | 0         | 1275                  | 12064     | 1689             | 0         | 1489               | 9100      | -1489            | 0         |
| 70         | 28          | 38847                | 9800      | 35087            | 0         | 1357                  | 12992     | 1836             | 0         | 1495               | 9800      | -1495            | 0         |
| 70         | 30          | 41494                | 10500     | 37721            | 0         | 1438                  | 13920     | 1982             | 0         | 1500               | 10500     | -1500            | 0         |
| 70         | 32          | 44140                | 11200     | 40356            | 0         | 1519                  | 14848     | 2129             | 0         | 1504               | 11200     | -1504            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 72         | 10          | 15351                | 3600      | 11808            | 0         | 519                   | 4773      | 654              | 0         | 1252               | 3600      | -1252            | 0         |
| 72         | 12          | 18106                | 4320      | 14485            | 0         | 830                   | 5727      | 577              | 0         | 1600               | 4320      | -1600            | 0         |
| 72         | 14          | 20851                | 5040      | 17172            | 0         | 833                   | 6682      | 808              | 0         | 1505               | 5040      | -1505            | 0         |
| 72         | 16          | 23590                | 5760      | 19865            | 0         | 822                   | 7636      | 1055             | 0         | 1386               | 5760      | -1386            | 0         |
| 72         | 18          | 26324                | 6480      | 22563            | 0         | 1005                  | 8591      | 1106             | 0         | 1539               | 6480      | -1539            | 0         |
| 72         | 20          | 29054                | 7200      | 25265            | 0         | 1090                  | 9545      | 1256             | 0         | 1551               | 7200      | -1551            | 0         |
| 72         | 22          | 31782                | 7920      | 27968            | 0         | 1143                  | 10500     | 1437             | 0         | 1517               | 7920      | -1517            | 0         |
| 72         | 24          | 34508                | 8640      | 30674            | 0         | 1228                  | 11455     | 1587             | 0         | 1525               | 8640      | -1525            | 0         |
| 72         | 26          | 37233                | 9360      | 33381            | 0         | 1311                  | 12409     | 1738             | 0         | 1532               | 9360      | -1532            | 0         |
| 72         | 28          | 39957                | 10080     | 36090            | 0         | 1395                  | 13364     | 1888             | 0         | 1538               | 10080     | -1538            | 0         |
| 72         | 30          | 42679                | 10800     | 38799            | 0         | 1479                  | 14318     | 2039             | 0         | 1543               | 10800     | -1543            | 0         |
| 72         | 32          | 45401                | 11520     | 41509            | 0         | 1563                  | 15273     | 2190             | 0         | 1547               | 11520     | -1547            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 74         | 10          | 15777                | 3700      | 12136            | 0         | 533                   | 4905      | 672              | 0         | 1287               | 3700      | -1287            | 0         |
| 74         | 12          | 18609                | 4440      | 14887            | 0         | 853                   | 5886      | 593              | 0         | 1644               | 4440      | -1644            | 0         |
| 74         | 14          | 21431                | 5180      | 17649            | 0         | 857                   | 6867      | 831              | 0         | 1547               | 5180      | -1547            | 0         |
| 74         | 16          | 24245                | 5920      | 20417            | 0         | 844                   | 7848      | 1084             | 0         | 1424               | 5920      | -1424            | 0         |
| 74         | 18          | 27055                | 6660      | 23190            | 0         | 1033                  | 8830      | 1137             | 0         | 1581               | 6660      | -1581            | 0         |
| 74         | 20          | 29861                | 7400      | 25966            | 0         | 1120                  | 9811      | 1291             | 0         | 1594               | 7400      | -1594            | 0         |
| 74         | 22          | 32665                | 8140      | 28745            | 0         | 1175                  | 10792     | 1477             | 0         | 1559               | 8140      | -1559            | 0         |
| 74         | 24          | 35467                | 8880      | 31526            | 0         | 1262                  | 11773     | 1631             | 0         | 1567               | 8880      | -1567            | 0         |
| 74         | 26          | 36199                | 9620      | 34309            | 0         | 1348                  | 12754     | 1786             | 0         | 1574               | 9620      | -1574            | 0         |
| 74         | 28          | 38847                | 10360     | 37092            | 0         | 1434                  | 13735     | 1941             | 0         | 1580               | 10360     | -1580            | 0         |
| 74         | 30          | 41494                | 11100     | 39877            | 0         | 1520                  | 14716     | 2096             | 0         | 1586               | 11100     | -1586            | 0         |
| 74         | 32          | 44140                | 11840     | 42662            | 0         | 1606                  | 15697     | 2251             | 0         | 1590               | 11840     | -1590            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 76         | 10          | 16204                | 3800      | 12464            | 0         | 547                   | 5038      | 690              | 0         | 1322               | 3800      | -1322            | 0         |
| 76         | 12          | 19112                | 4560      | 15290            | 0         | 876                   | 6045      | 609              | 0         | 1689               | 4560      | -1689            | 0         |
| 76         | 14          | 22010                | 5320      | 18126            | 0         | 880                   | 7053      | 853              | 0         | 1589               | 5320      | -1589            | 0         |
| 76         | 16          | 24900                | 6080      | 20969            | 0         | 867                   | 8061      | 1113             | 0         | 1463               | 6080      | -1463            | 0         |
| 76         | 18          | 27786                | 6840      | 23817            | 0         | 1061                  | 9068      | 1168             | 0         | 1624               | 6840      | -1624            | 0         |
| 76         | 20          | 30668                | 7600      | 26668            | 0         | 1150                  | 10076     | 1325             | 0         | 1637               | 7600      | -1637            | 0         |
| 76         | 22          | 33548                | 8360      | 29522            | 0         | 1207                  | 11083     | 1516             | 0         | 1601               | 8360      | -1601            | 0         |
| 76         | 24          | 36426                | 9120      | 32378            | 0         | 1296                  | 12091     | 1675             | 0         | 1609               | 9120      | -1609            | 0         |
| 76         | 26          | 39302                | 9880      | 35236            | 0         | 1384                  | 13098     | 1834             | 0         | 1617               | 9880      | -1617            | 0         |
| 76         | 28          | 42176                | 10640     | 38095            | 0         | 1473                  | 14106     | 1993             | 0         | 1623               | 10640     | -1623            | 0         |
| 76         | 30          | 45050                | 11400     | 40955            | 0         | 1561                  | 15114     | 2152             | 0         | 1629               | 11400     | -1629            | 0         |
| 76         | 32          | 47923                | 12160     | 43815            | 0         | 1650                  | 16121     | 2312             | 0         | 1633               | 12160     | -1633            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 78         | 10          | 16630                | 3900      | 12792            | 0         | 562                   | 5170      | 709              | 0         | 1357               | 3900      | -1357            | 0         |
| 78         | 12          | 19615                | 4680      | 15692            | 0         | 899                   | 6205      | 625              | 0         | 1733               | 4680      | -1733            | 0         |
| 78         | 14          | 22589                | 5460      | 18603            | 0         | 903                   | 7239      | 876              | 0         | 1631               | 5460      | -1631            | 0         |
| 78         | 16          | 25556                | 6240      | 21521            | 0         | 890                   | 8273      | 1143             | 0         | 1501               | 6240      | -1501            | 0         |
| 78         | 18          | 28517                | 7020      | 24443            | 0         | 1089                  | 9307      | 1198             | 0         | 1667               | 7020      | -1667            | 0         |
| 78         | 20          | 31475                | 7800      | 27370            | 0         | 1181                  | 10341     | 1360             | 0         | 1680               | 7800      | -1680            | 0         |
| 78         | 22          | 34431                | 8580      | 30299            | 0         | 1239                  | 11375     | 1556             | 0         | 1643               | 8580      | -1643            | 0         |
| 78         | 24          | 37384                | 9360      | 33230            | 0         | 1330                  | 12409     | 1719             | 0         | 1652               | 9360      | -1652            | 0         |
| 78         | 26          | 40336                | 10140     | 36163            | 0         | 1421                  | 13443     | 1882             | 0         | 1659               | 10140     | -1659            | 0         |
| 78         | 28          | 43286                | 10920     | 39097            | 0         | 1512                  | 14477     | 2046             | 0         | 1666               | 10920     | -1666            | 0         |
| 78         | 30          | 46236                | 11700     | 42032            | 0         | 1602                  | 15511     | 2209             | 0         | 1671               | 11700     | -1671            | 0         |
| 78         | 32          | 49184                | 12480     | 44968            | 0         | 1693                  | 16545     | 2372             | 0         | 1676               | 12480     | -1676            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 80         | 10          | 17057                | 4000      | 13121            | 0         | 576                   | 5303      | 727              | 0         | 1391               | 4000      | -1391            | 0         |
| 80         | 12          | 20118                | 4800      | 16094            | 0         | 922                   | 6364      | 641              | 0         | 1778               | 4800      | -1778            | 0         |
| 80         | 14          | 23168                | 5600      | 19080            | 0         | 926                   | 7424      | 898              | 0         | 1673               | 5600      | -1673            | 0         |
| 80         | 16          | 26211                | 6400      | 22072            | 0         | 913                   | 8485      | 1172             | 0         | 1540               | 6400      | -1540            | 0         |
| 80         | 18          | 29249                | 7200      | 25070            | 0         | 1116                  | 9545      | 1229             | 0         | 1710               | 7200      | -1710            | 0         |
| 80         | 20          | 32283                | 8000      | 28072            | 0         | 1211                  | 10606     | 1395             | 0         | 1723               | 8000      | -1723            | 0         |
| 80         | 22          | 35314                | 8800      | 31076            | 0         | 1270                  | 11667     | 1596             | 0         | 1685               | 8800      | -1685            | 0         |
| 80         | 24          | 38343                | 9600      | 34082            | 0         | 1364                  | 12727     | 1763             | 0         | 1694               | 9600      | -1694            | 0         |
| 80         | 26          | 41370                | 10400     | 37090            | 0         | 1457                  | 13788     | 1931             | 0         | 1702               | 10400     | -1702            | 0         |
| 80         | 28          | 44396                | 11200     | 40100            | 0         | 1550                  | 14848     | 2098             | 0         | 1708               | 11200     | -1708            | 0         |
| 80         | 30          | 47421                | 12000     | 43110            | 0         | 1643                  | 15909     | 2266             | 0         | 1714               | 12000     | -1714            | 0         |
| 80         | 32          | 50445                | 12800     | 46121            | 0         | 1736                  | 16970     | 2433             | 0         | 1719               | 12800     | -1719            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 82         | 10          | 17483                | 4100      | 13449            | 0         | 591                   | 5436      | 745              | 0         | 1426               | 4100      | -1426            | 0         |
| 82         | 12          | 20621                | 4920      | 16497            | 0         | 945                   | 6523      | 657              | 0         | 1822               | 4920      | -1822            | 0         |
| 82         | 14          | 23747                | 5740      | 19557            | 0         | 949                   | 7610      | 921              | 0         | 1715               | 5740      | -1715            | 0         |
| 82         | 16          | 26866                | 6560      | 22624            | 0         | 936                   | 8697      | 1201             | 0         | 1578               | 6560      | -1578            | 0         |
| 82         | 18          | 29980                | 7380      | 25697            | 0         | 1144                  | 9784      | 1260             | 0         | 1752               | 7380      | -1752            | 0         |
| 82         | 20          | 33090                | 8200      | 28774            | 0         | 1241                  | 10871     | 1430             | 0         | 1766               | 8200      | -1766            | 0         |
| 82         | 22          | 36197                | 9020      | 31853            | 0         | 1302                  | 11958     | 1636             | 0         | 1727               | 9020      | -1727            | 0         |
| 82         | 24          | 39301                | 9840      | 34934            | 0         | 1398                  | 13045     | 1807             | 0         | 1736               | 9840      | -1736            | 0         |
| 82         | 26          | 42404                | 10660     | 38018            | 0         | 1494                  | 14133     | 1979             | 0         | 1744               | 10660     | -1744            | 0         |
| 82         | 28          | 45506                | 11480     | 41102            | 0         | 1589                  | 15220     | 2151             | 0         | 1751               | 11480     | -1751            | 0         |
| 82         | 30          | 48607                | 12300     | 44188            | 0         | 1685                  | 16307     | 2322             | 0         | 1757               | 12300     | -1757            | 0         |
| 82         | 32          | 51707                | 13120     | 47275            | 0         | 1780                  | 17394     | 2494             | 0         | 1762               | 13120     | -1762            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 84         | 10          | 17909                | 4200      | 13777            | 0         | 605                   | 5568      | 763              | 0         | 1461               | 4200      | -1461            | 0         |
| 84         | 12          | 21124                | 5040      | 16899            | 0         | 968                   | 6682      | 673              | 0         | 1867               | 5040      | -1867            | 0         |
| 84         | 14          | 24327                | 5880      | 20034            | 0         | 972                   | 7795      | 943              | 0         | 1756               | 5880      | -1756            | 0         |
| 84         | 16          | 27522                | 6720      | 23176            | 0         | 959                   | 8909      | 1231             | 0         | 1617               | 6720      | -1617            | 0         |
| 84         | 18          | 30711                | 7560      | 26324            | 0         | 1172                  | 10023     | 1290             | 0         | 1795               | 7560      | -1795            | 0         |
| 84         | 20          | 33897                | 8400      | 29475            | 0         | 1271                  | 11136     | 1465             | 0         | 1809               | 8400      | -1809            | 0         |
| 84         | 22          | 37079                | 9240      | 32630            | 0         | 1334                  | 12250     | 1676             | 0         | 1769               | 9240      | -1769            | 0         |
| 84         | 24          | 40260                | 10080     | 35787            | 0         | 1432                  | 13364     | 1852             | 0         | 1779               | 10080     | -1779            | 0         |
| 84         | 26          | 43439                | 10920     | 38945            | 0         | 1530                  | 14477     | 2027             | 0         | 1787               | 10920     | -1787            | 0         |
| 84         | 28          | 46616                | 11760     | 42105            | 0         | 1628                  | 15591     | 2203             | 0         | 1794               | 11760     | -1794            | 0         |
| 84         | 30          | 49792                | 12600     | 45266            | 0         | 1726                  | 16704     | 2379             | 0         | 1800               | 12600     | -1800            | 0         |
| 84         | 32          | 52968                | 13440     | 48428            | 0         | 1823                  | 17818     | 2555             | 0         | 1805               | 13440     | -1805            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 86         | 10          | 18336                | 4300      | 14105            | 0         | 619                   | 5701      | 781              | 0         | 1496               | 4300      | -1496            | 0         |
| 86         | 12          | 21627                | 5160      | 17302            | 0         | 992                   | 6841      | 689              | 0         | 1911               | 5160      | -1911            | 0         |
| 86         | 14          | 24906                | 6020      | 20511            | 0         | 995                   | 7981      | 966              | 0         | 1798               | 6020      | -1798            | 0         |
| 86         | 16          | 28177                | 6880      | 23728            | 0         | 981                   | 9121      | 1260             | 0         | 1655               | 6880      | -1655            | 0         |
| 86         | 18          | 31442                | 7740      | 26951            | 0         | 1200                  | 10261     | 1321             | 0         | 1838               | 7740      | -1838            | 0         |
| 86         | 20          | 34704                | 8600      | 30177            | 0         | 1302                  | 11401     | 1500             | 0         | 1852               | 8600      | -1852            | 0         |
| 86         | 22          | 37962                | 9460      | 33407            | 0         | 1366                  | 12542     | 1716             | 0         | 1811               | 9460      | -1811            | 0         |
| 86         | 24          | 41218                | 10320     | 36639            | 0         | 1466                  | 13682     | 1896             | 0         | 1821               | 10320     | -1821            | 0         |
| 86         | 26          | 44473                | 11180     | 39872            | 0         | 1567                  | 14822     | 2075             | 0         | 1829               | 11180     | -1829            | 0         |
| 86         | 28          | 47726                | 12040     | 43107            | 0         | 1667                  | 15962     | 2255             | 0         | 1837               | 12040     | -1837            | 0         |
| 86         | 30          | 50978                | 12900     | 46343            | 0         | 1767                  | 17102     | 2436             | 0         | 1843               | 12900     | -1843            | 0         |
| 86         | 32          | 54229                | 13760     | 49581            | 0         | 1867                  | 18242     | 2616             | 0         | 1848               | 13760     | -1848            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 88         | 10          | 18762                | 4400      | 14433            | 0         | 634                   | 5833      | 799              | 0         | 1530               | 4400      | -1530            | 0         |
| 88         | 12          | 22130                | 5280      | 17704            | 0         | 1015                  | 7000      | 705              | 0         | 1956               | 5280      | -1956            | 0         |
| 88         | 14          | 25485                | 6160      | 20988            | 0         | 1019                  | 8167      | 988              | 0         | 1840               | 6160      | -1840            | 0         |
| 88         | 16          | 28832                | 7040      | 24280            | 0         | 1004                  | 9333      | 1289             | 0         | 1694               | 7040      | -1694            | 0         |
| 88         | 18          | 32173                | 7920      | 27577            | 0         | 1228                  | 10500     | 1352             | 0         | 1880               | 7920      | -1880            | 0         |
| 88         | 20          | 35511                | 8800      | 30879            | 0         | 1332                  | 11667     | 1535             | 0         | 1895               | 8800      | -1895            | 0         |
| 88         | 22          | 38845                | 9680      | 34184            | 0         | 1397                  | 12833     | 1756             | 0         | 1854               | 9680      | -1854            | 0         |
| 88         | 24          | 42177                | 10560     | 37491            | 0         | 1500                  | 14000     | 1940             | 0         | 1864               | 10560     | -1864            | 0         |
| 88         | 26          | 45507                | 11440     | 40800            | 0         | 1603                  | 15167     | 2124             | 0         | 1872               | 11440     | -1872            | 0         |
| 88         | 28          | 48836                | 12320     | 44110            | 0         | 1705                  | 16333     | 2308             | 0         | 1879               | 12320     | -1879            | 0         |
| 88         | 30          | 52163                | 13200     | 47421            | 0         | 1808                  | 17500     | 2492             | 0         | 1886               | 13200     | -1886            | 0         |
| 88         | 32          | 55490                | 14080     | 50734            | 0         | 1910                  | 18667     | 2677             | 0         | 1891               | 14080     | -1891            | 0         |



HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 90         | 10          | 19189                | 4500      | 14761            | 0         | 648                   | 5966      | 818              | 0         | 1565               | 4500      | -1565            | 0         |
| 90         | 12          | 22633                | 5400      | 18106            | 0         | 1038                  | 7159      | 721              | 0         | 2000               | 5400      | -2000            | 0         |
| 90         | 14          | 26064                | 6300      | 21465            | 0         | 1042                  | 8352      | 1011             | 0         | 1882               | 6300      | -1882            | 0         |
| 90         | 16          | 29487                | 7200      | 24831            | 0         | 1027                  | 9545      | 1318             | 0         | 1732               | 7200      | -1732            | 0         |
| 90         | 18          | 32905                | 8100      | 28204            | 0         | 1256                  | 10739     | 1383             | 0         | 1923               | 8100      | -1923            | 0         |
| 90         | 20          | 36318                | 9000      | 31581            | 0         | 1362                  | 11932     | 1570             | 0         | 1938               | 9000      | -1938            | 0         |
| 90         | 22          | 39728                | 9900      | 34961            | 0         | 1429                  | 13125     | 1796             | 0         | 1896               | 9900      | -1896            | 0         |
| 90         | 24          | 43136                | 10800     | 38343            | 0         | 1534                  | 14318     | 1984             | 0         | 1906               | 10800     | -1906            | 0         |
| 90         | 26          | 46541                | 11700     | 41727            | 0         | 1639                  | 15511     | 2172             | 0         | 1915               | 11700     | -1915            | 0         |
| 90         | 28          | 49946                | 12600     | 45112            | 0         | 1744                  | 16704     | 2360             | 0         | 1922               | 12600     | -1922            | 0         |
| 90         | 30          | 53349                | 13500     | 48499            | 0         | 1849                  | 17898     | 2549             | 0         | 1929               | 13500     | -1929            | 0         |
| 90         | 32          | 56751                | 14400     | 51887            | 0         | 1953                  | 19091     | 2737             | 0         | 1934               | 14400     | -1934            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 92         | 10          | 19615                | 4600      | 15089            | 0         | 663                   | 6098      | 836              | 0         | 1600               | 4600      | -1600            | 0         |
| 92         | 12          | 23136                | 5520      | 18509            | 0         | 1061                  | 7318      | 737              | 0         | 2044               | 5520      | -2044            | 0         |
| 92         | 14          | 26644                | 6440      | 21942            | 0         | 1065                  | 8538      | 1033             | 0         | 1924               | 6440      | -1924            | 0         |
| 92         | 16          | 30143                | 7360      | 25383            | 0         | 1050                  | 9758      | 1348             | 0         | 1771               | 7360      | -1771            | 0         |
| 92         | 18          | 33636                | 8280      | 28831            | 0         | 1284                  | 10977     | 1413             | 0         | 1966               | 8280      | -1966            | 0         |
| 92         | 20          | 37125                | 9200      | 32283            | 0         | 1392                  | 12197     | 1605             | 0         | 1981               | 9200      | -1981            | 0         |
| 92         | 22          | 40611                | 10120     | 35737            | 0         | 1461                  | 13417     | 1836             | 0         | 1938               | 10120     | -1938            | 0         |
| 92         | 24          | 44094                | 11040     | 39195            | 0         | 1568                  | 14636     | 2028             | 0         | 1948               | 11040     | -1948            | 0         |
| 92         | 26          | 47576                | 11960     | 42654            | 0         | 1676                  | 15856     | 2220             | 0         | 1957               | 11960     | -1957            | 0         |
| 92         | 28          | 51056                | 12880     | 46115            | 0         | 1783                  | 17076     | 2413             | 0         | 1965               | 12880     | -1965            | 0         |
| 92         | 30          | 54534                | 13800     | 49577            | 0         | 1890                  | 18295     | 2605             | 0         | 1971               | 13800     | -1971            | 0         |
| 92         | 32          | 58012                | 14720     | 53040            | 0         | 1997                  | 19515     | 2798             | 0         | 1977               | 14720     | -1977            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 94         | 10          | 20042                | 4700      | 15417            | 0         | 677                   | 6231      | 854              | 0         | 1635               | 4700      | -1635            | 0         |
| 94         | 12          | 23639                | 5640      | 18911            | 0         | 1084                  | 7477      | 753              | 0         | 2089               | 5640      | -2089            | 0         |
| 94         | 14          | 27223                | 6580      | 22419            | 0         | 1088                  | 8723      | 1055             | 0         | 1966               | 6580      | -1966            | 0         |
| 94         | 16          | 30798                | 7520      | 25935            | 0         | 1073                  | 9970      | 1377             | 0         | 1809               | 7520      | -1809            | 0         |
| 94         | 18          | 34367                | 8460      | 29458            | 0         | 1312                  | 11216     | 1444             | 0         | 2009               | 8460      | -2009            | 0         |
| 94         | 20          | 37932                | 9400      | 32984            | 0         | 1423                  | 12462     | 1639             | 0         | 2024               | 9400      | -2024            | 0         |
| 94         | 22          | 41494                | 10340     | 36514            | 0         | 1493                  | 13708     | 1876             | 0         | 1980               | 10340     | -1980            | 0         |
| 94         | 24          | 45053                | 11280     | 40047            | 0         | 1603                  | 14955     | 2072             | 0         | 1991               | 11280     | -1991            | 0         |
| 94         | 26          | 48610                | 12220     | 43581            | 0         | 1712                  | 16201     | 2268             | 0         | 2000               | 12220     | -2000            | 0         |
| 94         | 28          | 52166                | 13160     | 47117            | 0         | 1822                  | 17447     | 2465             | 0         | 2007               | 13160     | -2007            | 0         |
| 94         | 30          | 55720                | 14100     | 50655            | 0         | 1931                  | 18693     | 2662             | 0         | 2014               | 14100     | -2014            | 0         |
| 94         | 32          | 59273                | 15040     | 54193            | 0         | 2040                  | 19939     | 2859             | 0         | 2020               | 15040     | -2020            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 96         | 10          | 20468                | 4800      | 15745            | 0         | 691                   | 6364      | 872              | 0         | 1670               | 4800      | -1670            | 0         |
| 96         | 12          | 24142                | 5760      | 19313            | 0         | 1107                  | 7636      | 769              | 0         | 2133               | 5760      | -2133            | 0         |
| 96         | 14          | 27802                | 6720      | 22896            | 0         | 1111                  | 8909      | 1078             | 0         | 2007               | 6720      | -2007            | 0         |
| 96         | 16          | 31453                | 7680      | 26487            | 0         | 1095                  | 10182     | 1406             | 0         | 1848               | 7680      | -1848            | 0         |
| 96         | 18          | 35098                | 8640      | 30084            | 0         | 1340                  | 11455     | 1475             | 0         | 2051               | 8640      | -2051            | 0         |
| 96         | 20          | 38739                | 9600      | 33686            | 0         | 1453                  | 12727     | 1674             | 0         | 2067               | 9600      | -2067            | 0         |
| 96         | 22          | 42376                | 10560     | 37291            | 0         | 1524                  | 14000     | 1916             | 0         | 2022               | 10560     | -2022            | 0         |
| 96         | 24          | 46011                | 11520     | 40899            | 0         | 1637                  | 15273     | 2116             | 0         | 2033               | 11520     | -2033            | 0         |
| 96         | 26          | 49644                | 12480     | 44509            | 0         | 1749                  | 16545     | 2317             | 0         | 2042               | 12480     | -2042            | 0         |
| 96         | 28          | 53275                | 13440     | 48120            | 0         | 1860                  | 17818     | 2518             | 0         | 2050               | 13440     | -2050            | 0         |
| 96         | 30          | 56905                | 14400     | 51732            | 0         | 1972                  | 19091     | 2719             | 0         | 2057               | 14400     | -2057            | 0         |
| 96         | 32          | 60534                | 15360     | 55346            | 0         | 2084                  | 20364     | 2920             | 0         | 2063               | 15360     | -2063            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 98         | 10          | 20894                | 4900      | 16073            | 0         | 706                   | 6496      | 890              | 0         | 1704               | 4900      | -1704            | 0         |
| 98         | 12          | 24645                | 5880      | 19716            | 0         | 1130                  | 7795      | 786              | 0         | 2178               | 5880      | -2178            | 0         |
| 98         | 14          | 28381                | 6860      | 23373            | 0         | 1134                  | 9095      | 1100             | 0         | 2049               | 6860      | -2049            | 0         |
| 98         | 16          | 32108                | 7840      | 27039            | 0         | 1118                  | 10394     | 1436             | 0         | 1886               | 7840      | -1886            | 0         |
| 98         | 18          | 35830                | 8820      | 30711            | 0         | 1368                  | 11693     | 1506             | 0         | 2094               | 8820      | -2094            | 0         |
| 98         | 20          | 39546                | 9800      | 34388            | 0         | 1483                  | 12992     | 1709             | 0         | 2110               | 9800      | -2110            | 0         |
| 98         | 22          | 43259                | 10780     | 38068            | 0         | 1556                  | 14292     | 1955             | 0         | 2064               | 10780     | -2064            | 0         |
| 98         | 24          | 46970                | 11760     | 41751            | 0         | 1671                  | 15591     | 2160             | 0         | 2075               | 11760     | -2075            | 0         |
| 98         | 26          | 50678                | 12740     | 45436            | 0         | 1785                  | 16890     | 2365             | 0         | 2085               | 12740     | -2085            | 0         |
| 98         | 28          | 54385                | 13720     | 49122            | 0         | 1899                  | 18189     | 2570             | 0         | 2093               | 13720     | -2093            | 0         |
| 98         | 30          | 58091                | 14700     | 52810            | 0         | 2013                  | 19489     | 2775             | 0         | 2100               | 14700     | -2100            | 0         |
| 98         | 32          | 61796                | 15680     | 56499            | 0         | 2127                  | 20788     | 2981             | 0         | 2106               | 15680     | -2106            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 100        | 10          | 21321                | 5000      | 16401            | 0         | 720                   | 6629      | 909              | 0         | 1739               | 5000      | -1739            | 0         |
| 100        | 12          | 25148                | 6000      | 20118            | 0         | 1153                  | 7955      | 802              | 0         | 2222               | 6000      | -2222            | 0         |
| 100        | 14          | 28960                | 7000      | 23850            | 0         | 1157                  | 9280      | 1123             | 0         | 2091               | 7000      | -2091            | 0         |
| 100        | 16          | 32764                | 8000      | 27591            | 0         | 1141                  | 10606     | 1465             | 0         | 1925               | 8000      | -1925            | 0         |
| 100        | 18          | 36561                | 9000      | 31338            | 0         | 1396                  | 11932     | 1536             | 0         | 2137               | 9000      | -2137            | 0         |
| 100        | 20          | 40353                | 10000     | 35090            | 0         | 1514                  | 13258     | 1744             | 0         | 2153               | 10000     | -2153            | 0         |
| 100        | 22          | 44142                | 11000     | 38845            | 0         | 1588                  | 14583     | 1995             | 0         | 2106               | 11000     | -2106            | 0         |
| 100        | 24          | 47928                | 12000     | 42603            | 0         | 1705                  | 15909     | 2204             | 0         | 2118               | 12000     | -2118            | 0         |
| 100        | 26          | 51713                | 13000     | 46363            | 0         | 1822                  | 17235     | 2413             | 0         | 2127               | 13000     | -2127            | 0         |
| 100        | 28          | 55495                | 14000     | 50125            | 0         | 1938                  | 18561     | 2623             | 0         | 2136               | 14000     | -2136            | 0         |
| 100        | 30          | 59277                | 15000     | 53888            | 0         | 2054                  | 19886     | 2832             | 0         | 2143               | 15000     | -2143            | 0         |
| 100        | 32          | 63057                | 16000     | 57652            | 0         | 2170                  | 21212     | 3042             | 0         | 2149               | 16000     | -2149            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 105        | 10          | 22387                | 5250      | 17221            | 0         | 756                   | 6960      | 954              | 0         | 1826               | 5250      | -1826            | 0         |
| 105        | 12          | 26405                | 6300      | 21124            | 0         | 1211                  | 8352      | 842              | 0         | 2333               | 6300      | -2333            | 0         |
| 105        | 14          | 30408                | 7350      | 25042            | 0         | 1215                  | 9744      | 1179             | 0         | 2196               | 7350      | -2196            | 0         |
| 105        | 16          | 34402                | 8400      | 28970            | 0         | 1198                  | 11136     | 1538             | 0         | 2021               | 8400      | -2021            | 0         |
| 105        | 18          | 38389                | 9450      | 32905            | 0         | 1465                  | 12528     | 1613             | 0         | 2244               | 9450      | -2244            | 0         |
| 105        | 20          | 42371                | 10500     | 36844            | 0         | 1589                  | 13920     | 1831             | 0         | 2261               | 10500     | -2261            | 0         |
| 105        | 22          | 46349                | 11550     | 40787            | 0         | 1667                  | 15312     | 2095             | 0         | 2212               | 11550     | -2212            | 0         |
| 105        | 24          | 50325                | 12600     | 44733            | 0         | 1790                  | 16704     | 2314             | 0         | 2224               | 12600     | -2224            | 0         |
| 105        | 26          | 54298                | 13650     | 48681            | 0         | 1913                  | 18097     | 2534             | 0         | 2234               | 13650     | -2234            | 0         |
| 105        | 28          | 58270                | 14700     | 52631            | 0         | 2035                  | 19489     | 2754             | 0         | 2242               | 14700     | -2242            | 0         |
| 105        | 30          | 62240                | 15750     | 56582            | 0         | 2157                  | 20881     | 2974             | 0         | 2250               | 15750     | -2250            | 0         |
| 105        | 32          | 66210                | 16800     | 60534            | 0         | 2279                  | 22273     | 3194             | 0         | 2257               | 16800     | -2257            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 110        | 10          | 23453                | 5500      | 18041            | 0         | 792                   | 7292      | 999              | 0         | 1913               | 5500      | -1913            | 0         |
| 110        | 12          | 27662                | 6600      | 22130            | 0         | 1268                  | 8750      | 882              | 0         | 2444               | 6600      | -2444            | 0         |
| 110        | 14          | 31856                | 7700      | 26235            | 0         | 1273                  | 10208     | 1235             | 0         | 2300               | 7700      | -2300            | 0         |
| 110        | 16          | 36040                | 8800      | 30350            | 0         | 1255                  | 11667     | 1611             | 0         | 2117               | 8800      | -2117            | 0         |
| 110        | 18          | 40217                | 9900      | 34472            | 0         | 1535                  | 13125     | 1690             | 0         | 2351               | 9900      | -2351            | 0         |
| 110        | 20          | 44388                | 11000     | 38599            | 0         | 1665                  | 14583     | 1918             | 0         | 2369               | 11000     | -2369            | 0         |
| 110        | 22          | 48556                | 12100     | 42730            | 0         | 1747                  | 16042     | 2195             | 0         | 2317               | 12100     | -2317            | 0         |
| 110        | 24          | 52721                | 13200     | 46863            | 0         | 1875                  | 17500     | 2425             | 0         | 2329               | 13200     | -2329            | 0         |
| 110        | 26          | 56884                | 14300     | 50999            | 0         | 2004                  | 18958     | 2655             | 0         | 2340               | 14300     | -2340            | 0         |
| 110        | 28          | 61045                | 15400     | 55137            | 0         | 2132                  | 20417     | 2885             | 0         | 2349               | 15400     | -2349            | 0         |
| 110        | 30          | 65204                | 16500     | 59277            | 0         | 2260                  | 21875     | 3115             | 0         | 2357               | 16500     | -2357            | 0         |
| 110        | 32          | 69362                | 17600     | 63417            | 0         | 2387                  | 23333     | 3346             | 0         | 2364               | 17600     | -2364            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 115        | 10          | 24519                | 5750      | 18861            | 0         | 828                   | 7623      | 1045             | 0         | 2000               | 5750      | -2000            | 0         |
| 115        | 12          | 28920                | 6900      | 23136            | 0         | 1326                  | 9148      | 922              | 0         | 2556               | 6900      | -2556            | 0         |
| 115        | 14          | 33304                | 8050      | 27427            | 0         | 1331                  | 10672     | 1291             | 0         | 2405               | 8050      | -2405            | 0         |
| 115        | 16          | 37678                | 9200      | 31729            | 0         | 1312                  | 12197     | 1685             | 0         | 2213               | 9200      | -2213            | 0         |
| 115        | 18          | 42045                | 10350     | 36038            | 0         | 1605                  | 13722     | 1767             | 0         | 2457               | 10350     | -2457            | 0         |
| 115        | 20          | 46406                | 11500     | 40353            | 0         | 1741                  | 15246     | 2006             | 0         | 2477               | 11500     | -2477            | 0         |
| 115        | 22          | 50763                | 12650     | 44672            | 0         | 1826                  | 16771     | 2295             | 0         | 2422               | 12650     | -2422            | 0         |
| 115        | 24          | 55118                | 13800     | 48993            | 0         | 1961                  | 18295     | 2535             | 0         | 2435               | 13800     | -2435            | 0         |
| 115        | 26          | 59470                | 14950     | 53318            | 0         | 2095                  | 19820     | 2775             | 0         | 2446               | 14950     | -2446            | 0         |
| 115        | 28          | 63820                | 16100     | 57643            | 0         | 2229                  | 21345     | 3016             | 0         | 2456               | 16100     | -2456            | 0         |
| 115        | 30          | 68168                | 17250     | 61971            | 0         | 2362                  | 22869     | 3257             | 0         | 2464               | 17250     | -2464            | 0         |
| 115        | 32          | 72515                | 18400     | 66300            | 0         | 2496                  | 24394     | 3498             | 0         | 2472               | 18400     | -2472            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 120        | 10          | 25585                | 6000      | 19681            | 0         | 864                   | 7955      | 1090             | 0         | 2087               | 6000      | -2087            | 0         |
| 120        | 12          | 30177                | 7200      | 24142            | 0         | 1384                  | 9545      | 962              | 0         | 2667               | 7200      | -2667            | 0         |
| 120        | 14          | 34752                | 8400      | 28620            | 0         | 1389                  | 11136     | 1347             | 0         | 2509               | 8400      | -2509            | 0         |
| 120        | 16          | 39317                | 9600      | 33109            | 0         | 1369                  | 12727     | 1758             | 0         | 2309               | 9600      | -2309            | 0         |
| 120        | 18          | 43873                | 10800     | 37605            | 0         | 1675                  | 14318     | 1844             | 0         | 2564               | 10800     | -2564            | 0         |
| 120        | 20          | 48424                | 12000     | 42108            | 0         | 1816                  | 15909     | 2093             | 0         | 2584               | 12000     | -2584            | 0         |
| 120        | 22          | 52971                | 13200     | 46614            | 0         | 1906                  | 17500     | 2394             | 0         | 2528               | 13200     | -2528            | 0         |
| 120        | 24          | 57514                | 14400     | 51124            | 0         | 2046                  | 19091     | 2645             | 0         | 2541               | 14400     | -2541            | 0         |
| 120        | 26          | 62055                | 15600     | 55636            | 0         | 2186                  | 20682     | 2896             | 0         | 2553               | 15600     | -2553            | 0         |
| 120        | 28          | 66594                | 16800     | 60150            | 0         | 2326                  | 22273     | 3147             | 0         | 2563               | 16800     | -2563            | 0         |
| 120        | 30          | 71132                | 18000     | 64665            | 0         | 2465                  | 23864     | 3398             | 0         | 2571               | 18000     | -2571            | 0         |
| 120        | 32          | 75668                | 19200     | 69182            | 0         | 2605                  | 25454     | 3650             | 0         | 2579               | 19200     | -2579            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 125        | 10          | 26651                | 6250      | 20501            | 0         | 900                   | 8286      | 1136             | 0         | 2174               | 6250      | -2174            | 0         |
| 125        | 12          | 31435                | 7500      | 25148            | 0         | 1441                  | 9943      | 1002             | 0         | 2778               | 7500      | -2778            | 0         |
| 125        | 14          | 36200                | 8750      | 29812            | 0         | 1447                  | 11600     | 1404             | 0         | 2614               | 8750      | -2614            | 0         |
| 125        | 16          | 40955                | 10000     | 34488            | 0         | 1426                  | 13258     | 1831             | 0         | 2406               | 10000     | -2406            | 0         |
| 125        | 18          | 45701                | 11250     | 39172            | 0         | 1744                  | 14915     | 1920             | 0         | 2671               | 11250     | -2671            | 0         |
| 125        | 20          | 50441                | 12500     | 43862            | 0         | 1892                  | 16572     | 2180             | 0         | 2692               | 12500     | -2692            | 0         |
| 125        | 22          | 55178                | 13750     | 48556            | 0         | 1985                  | 18229     | 2494             | 0         | 2633               | 13750     | -2633            | 0         |
| 125        | 24          | 59911                | 15000     | 53254            | 0         | 2131                  | 19886     | 2755             | 0         | 2647               | 15000     | -2647            | 0         |
| 125        | 26          | 64641                | 16250     | 57954            | 0         | 2277                  | 21543     | 3017             | 0         | 2659               | 16250     | -2659            | 0         |
| 125        | 28          | 69369                | 17500     | 62656            | 0         | 2422                  | 23201     | 3278             | 0         | 2669               | 17500     | -2669            | 0         |
| 125        | 30          | 74096                | 18750     | 67360            | 0         | 2568                  | 24858     | 3540             | 0         | 2679               | 18750     | -2679            | 0         |
| 125        | 32          | 78821                | 20000     | 72065            | 0         | 2713                  | 26515     | 3802             | 0         | 2687               | 20000     | -2687            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 130        | 10          | 27717                | 6500      | 21321            | 0         | 936                   | 8617      | 1181             | 0         | 2261               | 6500      | -2261            | 0         |
| 130        | 12          | 32692                | 7800      | 26154            | 0         | 1499                  | 10341     | 1042             | 0         | 2889               | 7800      | -2889            | 0         |
| 130        | 14          | 37648                | 9100      | 31005            | 0         | 1505                  | 12064     | 1460             | 0         | 2718               | 9100      | -2718            | 0         |
| 130        | 16          | 42593                | 10400     | 35868            | 0         | 1483                  | 13788     | 1904             | 0         | 2502               | 10400     | -2502            | 0         |
| 130        | 18          | 47529                | 11700     | 40739            | 0         | 1814                  | 15511     | 1997             | 0         | 2778               | 11700     | -2778            | 0         |
| 130        | 20          | 52459                | 13000     | 45617            | 0         | 1968                  | 17235     | 2267             | 0         | 2800               | 13000     | -2800            | 0         |
| 130        | 22          | 57385                | 14300     | 50499            | 0         | 2064                  | 18958     | 2594             | 0         | 2738               | 14300     | -2738            | 0         |
| 130        | 24          | 62307                | 15600     | 55384            | 0         | 2216                  | 20682     | 2865             | 0         | 2753               | 15600     | -2753            | 0         |
| 130        | 26          | 67226                | 16900     | 60272            | 0         | 2368                  | 22405     | 3137             | 0         | 2765               | 16900     | -2765            | 0         |
| 130        | 28          | 72144                | 18200     | 65162            | 0         | 2519                  | 24129     | 3409             | 0         | 2776               | 18200     | -2776            | 0         |
| 130        | 30          | 77060                | 19500     | 70054            | 0         | 2671                  | 25852     | 3682             | 0         | 2786               | 19500     | -2786            | 0         |
| 130        | 32          | 81974                | 20800     | 74947            | 0         | 2822                  | 27576     | 3954             | 0         | 2794               | 20800     | -2794            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 135        | 10          | 28783                | 6750      | 22141            | 0         | 972                   | 8949      | 1226             | 0         | 2348               | 6750      | -2348            | 0         |
| 135        | 12          | 33949                | 8100      | 27159            | 0         | 1557                  | 10739     | 1082             | 0         | 3000               | 8100      | -3000            | 0         |
| 135        | 14          | 39096                | 9450      | 32197            | 0         | 1563                  | 12528     | 1516             | 0         | 2823               | 9450      | -2823            | 0         |
| 135        | 16          | 44231                | 10800     | 37247            | 0         | 1541                  | 14318     | 1978             | 0         | 2598               | 10800     | -2598            | 0         |
| 135        | 18          | 49357                | 12150     | 42306            | 0         | 1884                  | 16108     | 2074             | 0         | 2885               | 12150     | -2885            | 0         |
| 135        | 20          | 54477                | 13500     | 47371            | 0         | 2043                  | 17898     | 2354             | 0         | 2907               | 13500     | -2907            | 0         |
| 135        | 22          | 59592                | 14850     | 52441            | 0         | 2144                  | 19687     | 2694             | 0         | 2844               | 14850     | -2844            | 0         |
| 135        | 24          | 64703                | 16200     | 57514            | 0         | 2302                  | 21477     | 2976             | 0         | 2859               | 16200     | -2859            | 0         |
| 135        | 26          | 69812                | 17550     | 62590            | 0         | 2459                  | 23267     | 3258             | 0         | 2872               | 17550     | -2872            | 0         |
| 135        | 28          | 74919                | 18900     | 67668            | 0         | 2616                  | 25057     | 3540             | 0         | 2883               | 18900     | -2883            | 0         |
| 135        | 30          | 80023                | 20250     | 72748            | 0         | 2773                  | 26847     | 3823             | 0         | 2893               | 20250     | -2893            | 0         |
| 135        | 32          | 85127                | 21600     | 77830            | 0         | 2930                  | 28636     | 4106             | 0         | 2901               | 21600     | -2901            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 140        | 10          | 29849                | 7000      | 22961            | 0         | 1008                  | 9280      | 1272             | 0         | 2435               | 7000      | -2435            | 0         |
| 140        | 12          | 35207                | 8400      | 28165            | 0         | 1614                  | 11136     | 1122             | 0         | 3111               | 8400      | -3111            | 0         |
| 140        | 14          | 40544                | 9800      | 33390            | 0         | 1620                  | 12992     | 1572             | 0         | 2927               | 9800      | -2927            | 0         |
| 140        | 16          | 45869                | 11200     | 38627            | 0         | 1598                  | 14848     | 2051             | 0         | 2694               | 11200     | -2694            | 0         |
| 140        | 18          | 51185                | 12600     | 43873            | 0         | 1954                  | 16704     | 2151             | 0         | 2992               | 12600     | -2992            | 0         |
| 140        | 20          | 56494                | 14000     | 49126            | 0         | 2119                  | 18561     | 2442             | 0         | 3015               | 14000     | -3015            | 0         |
| 140        | 22          | 61799                | 15400     | 54383            | 0         | 2223                  | 20417     | 2793             | 0         | 2949               | 15400     | -2949            | 0         |
| 140        | 24          | 67100                | 16800     | 59644            | 0         | 2387                  | 22273     | 3086             | 0         | 2965               | 16800     | -2965            | 0         |
| 140        | 26          | 72398                | 18200     | 64908            | 0         | 2550                  | 24129     | 3379             | 0         | 2978               | 18200     | -2978            | 0         |
| 140        | 28          | 77693                | 19600     | 70175            | 0         | 2713                  | 25985     | 3672             | 0         | 2990               | 19600     | -2990            | 0         |
| 140        | 30          | 82987                | 21000     | 75443            | 0         | 2876                  | 27841     | 3965             | 0         | 3000               | 21000     | -3000            | 0         |
| 140        | 32          | 88279                | 22400     | 80713            | 0         | 3039                  | 29697     | 4258             | 0         | 3009               | 22400     | -3009            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 190 mph - ASCE 7-16

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 145        | 10          | 30915                | 7250      | 23781            | 0         | 1044                  | 9612      | 1317             | 0         | 2522               | 7250      | -2522            | 0         |
| 145        | 12          | 36464                | 8700      | 29171            | 0         | 1672                  | 11534     | 1162             | 0         | 3222               | 8700      | -3222            | 0         |
| 145        | 14          | 41992                | 10150     | 34582            | 0         | 1678                  | 13456     | 1628             | 0         | 3032               | 10150     | -3032            | 0         |
| 145        | 16          | 47507                | 11600     | 40006            | 0         | 1655                  | 15379     | 2124             | 0         | 2791               | 11600     | -2791            | 0         |
| 145        | 18          | 53013                | 13050     | 45440            | 0         | 2024                  | 17301     | 2228             | 0         | 3099               | 13050     | -3099            | 0         |
| 145        | 20          | 58512                | 14500     | 50880            | 0         | 2195                  | 19223     | 2529             | 0         | 3123               | 14500     | -3123            | 0         |
| 145        | 22          | 64006                | 15950     | 56325            | 0         | 2303                  | 21146     | 2893             | 0         | 3054               | 15950     | -3054            | 0         |
| 145        | 24          | 69496                | 17400     | 61774            | 0         | 2472                  | 23068     | 3196             | 0         | 3071               | 17400     | -3071            | 0         |
| 145        | 26          | 74983                | 18850     | 67226            | 0         | 2641                  | 24990     | 3499             | 0         | 3085               | 18850     | -3085            | 0         |
| 145        | 28          | 80468                | 20300     | 72681            | 0         | 2810                  | 26913     | 3803             | 0         | 3097               | 20300     | -3097            | 0         |
| 145        | 30          | 85951                | 21750     | 78137            | 0         | 2979                  | 28835     | 4106             | 0         | 3107               | 21750     | -3107            | 0         |
| 145        | 32          | 91432                | 23200     | 83595            | 0         | 3147                  | 30757     | 4410             | 0         | 3116               | 23200     | -3116            | 0         |

| Door Size  |             | Case A - Door Closed |           |                  |           | Case B - Door Opening |           |                  |           | Case C - Door Open |           |                  |           |
|------------|-------------|----------------------|-----------|------------------|-----------|-----------------------|-----------|------------------|-----------|--------------------|-----------|------------------|-----------|
|            |             | Base Reaction (#)    |           | Top Reaction (#) |           | Base Reaction (#)     |           | Top Reaction (#) |           | Base Reaction (#)  |           | Top Reaction (#) |           |
| Width (ft) | Height (ft) | Horiz. (#) *         | Vert. (#) | Horiz. (#) *     | Vert. (#) | Horiz. (#)            | Vert. (#) | Horiz. (#)       | Vert. (#) | Horiz. (#)         | Vert. (#) | Horiz. (#)       | Vert. (#) |
| 150        | 10          | 31981                | 7500      | 24601            | 0         | 1080                  | 9943      | 1363             | 0         | 2609               | 7500      | -2609            | 0         |
| 150        | 12          | 37721                | 9000      | 30177            | 0         | 1729                  | 11932     | 1202             | 0         | 3333               | 9000      | -3333            | 0         |
| 150        | 14          | 43440                | 10500     | 35775            | 0         | 1736                  | 13920     | 1684             | 0         | 3136               | 10500     | -3136            | 0         |
| 150        | 16          | 49146                | 12000     | 41386            | 0         | 1712                  | 15909     | 2197             | 0         | 2887               | 12000     | -2887            | 0         |
| 150        | 18          | 54841                | 13500     | 47007            | 0         | 2093                  | 17898     | 2304             | 0         | 3205               | 13500     | -3205            | 0         |
| 150        | 20          | 60530                | 15000     | 52635            | 0         | 2270                  | 19886     | 2616             | 0         | 3230               | 15000     | -3230            | 0         |
| 150        | 22          | 66213                | 16500     | 58268            | 0         | 2382                  | 21875     | 2993             | 0         | 3160               | 16500     | -3160            | 0         |
| 150        | 24          | 71893                | 18000     | 63905            | 0         | 2557                  | 23864     | 3306             | 0         | 3176               | 18000     | -3176            | 0         |
| 150        | 26          | 77569                | 19500     | 69545            | 0         | 2732                  | 25852     | 3620             | 0         | 3191               | 19500     | -3191            | 0         |
| 150        | 28          | 83243                | 21000     | 75187            | 0         | 2907                  | 27841     | 3934             | 0         | 3203               | 21000     | -3203            | 0         |
| 150        | 30          | 88915                | 22500     | 80832            | 0         | 3081                  | 29829     | 4248             | 0         | 3214               | 22500     | -3214            | 0         |
| 150        | 32          | 94585                | 24000     | 86478            | 0         | 3256                  | 31818     | 4562             | 0         | 3224               | 24000     | -3224            | 0         |