

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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         | 160               | 53.5              | 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          | 4536                 | 1500      | 3489             | 0         | 216                   | 1989      | 273              | 0         | 522                | 1500      | -522             | 0         |
| 30         | 12          | 5350                 | 1800      | 4280             | 0         | 346                   | 2386      | 240              | 0         | 667                | 1800      | -667             | 0         |
| 30         | 14          | 6161                 | 2100      | 5074             | 0         | 347                   | 2784      | 337              | 0         | 627                | 2100      | -627             | 0         |
| 30         | 16          | 6970                 | 2400      | 5870             | 0         | 342                   | 3182      | 439              | 0         | 577                | 2400      | -577             | 0         |
| 30         | 18          | 7778                 | 2700      | 6667             | 0         | 419                   | 3580      | 461              | 0         | 641                | 2700      | -641             | 0         |
| 30         | 20          | 8585                 | 3000      | 7465             | 0         | 454                   | 3977      | 523              | 0         | 646                | 3000      | -646             | 0         |
| 30         | 22          | 9391                 | 3300      | 8264             | 0         | 476                   | 4375      | 599              | 0         | 632                | 3300      | -632             | 0         |
| 30         | 24          | 10196                | 3600      | 9063             | 0         | 511                   | 4773      | 661              | 0         | 635                | 3600      | -635             | 0         |
| 30         | 26          | 11001                | 3900      | 9863             | 0         | 546                   | 5170      | 724              | 0         | 638                | 3900      | -638             | 0         |
| 30         | 28          | 11806                | 4200      | 10664            | 0         | 581                   | 5568      | 787              | 0         | 641                | 4200      | -641             | 0         |
| 30         | 30          | 12611                | 4500      | 11464            | 0         | 616                   | 5966      | 850              | 0         | 643                | 4500      | -643             | 0         |
| 30         | 32          | 13415                | 4800      | 12265            | 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          | 4838                 | 1600      | 3722             | 0         | 230                   | 2121      | 291              | 0         | 557                | 1600      | -557             | 0         |
| 32         | 12          | 5707                 | 1920      | 4565             | 0         | 369                   | 2545      | 256              | 0         | 711                | 1920      | -711             | 0         |
| 32         | 14          | 6572                 | 2240      | 5412             | 0         | 370                   | 2970      | 359              | 0         | 669                | 2240      | -669             | 0         |
| 32         | 16          | 7435                 | 2560      | 6261             | 0         | 365                   | 3394      | 469              | 0         | 616                | 2560      | -616             | 0         |
| 32         | 18          | 8297                 | 2880      | 7111             | 0         | 447                   | 3818      | 492              | 0         | 684                | 2880      | -684             | 0         |
| 32         | 20          | 9157                 | 3200      | 7963             | 0         | 484                   | 4242      | 558              | 0         | 689                | 3200      | -689             | 0         |
| 32         | 22          | 10017                | 3520      | 8815             | 0         | 508                   | 4667      | 639              | 0         | 674                | 3520      | -674             | 0         |
| 32         | 24          | 10876                | 3840      | 9668             | 0         | 546                   | 5091      | 705              | 0         | 678                | 3840      | -678             | 0         |
| 32         | 26          | 11735                | 4160      | 10521            | 0         | 583                   | 5515      | 772              | 0         | 681                | 4160      | -681             | 0         |
| 32         | 28          | 12593                | 4480      | 11375            | 0         | 620                   | 5939      | 839              | 0         | 683                | 4480      | -683             | 0         |
| 32         | 30          | 13451                | 4800      | 12228            | 0         | 657                   | 6364      | 906              | 0         | 686                | 4800      | -686             | 0         |
| 32         | 32          | 14309                | 5120      | 13083            | 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          | 5141                 | 1700      | 3954             | 0         | 245                   | 2254      | 309              | 0         | 591                | 1700      | -591             | 0         |
| 34         | 12          | 6063                 | 2040      | 4851             | 0         | 392                   | 2705      | 273              | 0         | 756                | 2040      | -756             | 0         |
| 34         | 14          | 6983                 | 2380      | 5750             | 0         | 394                   | 3155      | 382              | 0         | 711                | 2380      | -711             | 0         |
| 34         | 16          | 7900                 | 2720      | 6652             | 0         | 388                   | 3606      | 498              | 0         | 654                | 2720      | -654             | 0         |
| 34         | 18          | 8815                 | 3060      | 7556             | 0         | 474                   | 4057      | 522              | 0         | 727                | 3060      | -727             | 0         |
| 34         | 20          | 9729                 | 3400      | 8460             | 0         | 515                   | 4508      | 593              | 0         | 732                | 3400      | -732             | 0         |
| 34         | 22          | 10643                | 3740      | 9366             | 0         | 540                   | 4958      | 678              | 0         | 716                | 3740      | -716             | 0         |
| 34         | 24          | 11556                | 4080      | 10272            | 0         | 580                   | 5409      | 749              | 0         | 720                | 4080      | -720             | 0         |
| 34         | 26          | 12468                | 4420      | 11179            | 0         | 619                   | 5860      | 821              | 0         | 723                | 4420      | -723             | 0         |
| 34         | 28          | 13380                | 4760      | 12085            | 0         | 659                   | 6311      | 892              | 0         | 726                | 4760      | -726             | 0         |
| 34         | 30          | 14292                | 5100      | 12993            | 0         | 698                   | 6761      | 963              | 0         | 729                | 5100      | -729             | 0         |
| 34         | 32          | 15203                | 5440      | 13900            | 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          | 5443                 | 1800      | 4187             | 0         | 259                   | 2386      | 327              | 0         | 626                | 1800      | -626             | 0         |
| 36         | 12          | 6420                 | 2160      | 5136             | 0         | 415                   | 2864      | 289              | 0         | 800                | 2160      | -800             | 0         |
| 36         | 14          | 7393                 | 2520      | 6089             | 0         | 417                   | 3341      | 404              | 0         | 753                | 2520      | -753             | 0         |
| 36         | 16          | 8364                 | 2880      | 7044             | 0         | 411                   | 3818      | 527              | 0         | 693                | 2880      | -693             | 0         |
| 36         | 18          | 9334                 | 3240      | 8000             | 0         | 502                   | 4295      | 553              | 0         | 769                | 3240      | -769             | 0         |
| 36         | 20          | 10302                | 3600      | 8958             | 0         | 545                   | 4773      | 628              | 0         | 775                | 3600      | -775             | 0         |
| 36         | 22          | 11269                | 3960      | 9917             | 0         | 572                   | 5250      | 718              | 0         | 758                | 3960      | -758             | 0         |
| 36         | 24          | 12236                | 4320      | 10876            | 0         | 614                   | 5727      | 794              | 0         | 762                | 4320      | -762             | 0         |
| 36         | 26          | 13202                | 4680      | 11836            | 0         | 656                   | 6205      | 869              | 0         | 766                | 4680      | -766             | 0         |
| 36         | 28          | 14167                | 5040      | 12796            | 0         | 698                   | 6682      | 944              | 0         | 769                | 5040      | -769             | 0         |
| 36         | 30          | 15133                | 5400      | 13757            | 0         | 740                   | 7159      | 1020             | 0         | 771                | 5400      | -771             | 0         |
| 36         | 32          | 16098                | 5760      | 14718            | 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      | 4420             | 0         | 274                   | 2519      | 345              | 0         | 661                | 1900      | -661             | 0         |
| 38         | 12          | 0                    | 2280      | 5421             | 0         | 438                   | 3023      | 305              | 0         | 844                | 2280      | -844             | 0         |
| 38         | 14          | 0                    | 2660      | 6427             | 0         | 440                   | 3527      | 427              | 0         | 795                | 2660      | -795             | 0         |
| 38         | 16          | 0                    | 3040      | 7435             | 0         | 434                   | 4030      | 557              | 0         | 731                | 3040      | -731             | 0         |
| 38         | 18          | 0                    | 3420      | 8445             | 0         | 530                   | 4534      | 584              | 0         | 812                | 3420      | -812             | 0         |
| 38         | 20          | 0                    | 3800      | 9456             | 0         | 575                   | 5038      | 663              | 0         | 818                | 3800      | -818             | 0         |
| 38         | 22          | 0                    | 4180      | 10468            | 0         | 603                   | 5542      | 758              | 0         | 800                | 4180      | -800             | 0         |
| 38         | 24          | 0                    | 4560      | 11480            | 0         | 648                   | 6045      | 838              | 0         | 805                | 4560      | -805             | 0         |
| 38         | 26          | 0                    | 4940      | 12494            | 0         | 692                   | 6549      | 917              | 0         | 808                | 4940      | -808             | 0         |
| 38         | 28          | 0                    | 5320      | 13507            | 0         | 736                   | 7053      | 997              | 0         | 812                | 5320      | -812             | 0         |
| 38         | 30          | 0                    | 5700      | 14521            | 0         | 781                   | 7557      | 1076             | 0         | 814                | 5700      | -814             | 0         |
| 38         | 32          | 0                    | 6080      | 15536            | 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          | 6048                 | 2000      | 4652             | 0         | 288                   | 2652      | 363              | 0         | 696                | 2000      | -696             | 0         |
| 40         | 12          | 7133                 | 2400      | 5707             | 0         | 461                   | 3182      | 321              | 0         | 889                | 2400      | -889             | 0         |
| 40         | 14          | 8215                 | 2800      | 6765             | 0         | 463                   | 3712      | 449              | 0         | 836                | 2800      | -836             | 0         |
| 40         | 16          | 9294                 | 3200      | 7826             | 0         | 456                   | 4242      | 586              | 0         | 770                | 3200      | -770             | 0         |
| 40         | 18          | 10371                | 3600      | 8889             | 0         | 558                   | 4773      | 615              | 0         | 855                | 3600      | -855             | 0         |
| 40         | 20          | 11446                | 4000      | 9953             | 0         | 605                   | 5303      | 698              | 0         | 861                | 4000      | -861             | 0         |
| 40         | 22          | 12521                | 4400      | 11019            | 0         | 635                   | 5833      | 798              | 0         | 843                | 4400      | -843             | 0         |
| 40         | 24          | 13595                | 4800      | 12085            | 0         | 682                   | 6364      | 882              | 0         | 847                | 4800      | -847             | 0         |
| 40         | 26          | 14669                | 5200      | 13151            | 0         | 729                   | 6894      | 965              | 0         | 851                | 5200      | -851             | 0         |
| 40         | 28          | 15742                | 5600      | 14218            | 0         | 775                   | 7424      | 1049             | 0         | 854                | 5600      | -854             | 0         |
| 40         | 30          | 16814                | 6000      | 15286            | 0         | 822                   | 7955      | 1133             | 0         | 857                | 6000      | -857             | 0         |
| 40         | 32          | 17886                | 6400      | 16353            | 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          | 6350                 | 2100      | 4885             | 0         | 303                   | 2784      | 382              | 0         | 730                | 2100      | -730             | 0         |
| 42         | 12          | 7490                 | 2520      | 5992             | 0         | 484                   | 3341      | 337              | 0         | 933                | 2520      | -933             | 0         |
| 42         | 14          | 8626                 | 2940      | 7103             | 0         | 486                   | 3898      | 472              | 0         | 878                | 2940      | -878             | 0         |
| 42         | 16          | 9758                 | 3360      | 8218             | 0         | 479                   | 4455      | 615              | 0         | 808                | 3360      | -808             | 0         |
| 42         | 18          | 10889                | 3780      | 9334             | 0         | 586                   | 5011      | 645              | 0         | 898                | 3780      | -898             | 0         |
| 42         | 20          | 12019                | 4200      | 10451            | 0         | 636                   | 5568      | 732              | 0         | 904                | 4200      | -904             | 0         |
| 42         | 22          | 13147                | 4620      | 11570            | 0         | 667                   | 6125      | 838              | 0         | 885                | 4620      | -885             | 0         |
| 42         | 24          | 14275                | 5040      | 12689            | 0         | 716                   | 6682      | 926              | 0         | 889                | 5040      | -889             | 0         |
| 42         | 26          | 15402                | 5460      | 13809            | 0         | 765                   | 7239      | 1014             | 0         | 893                | 5460      | -893             | 0         |
| 42         | 28          | 16529                | 5880      | 14929            | 0         | 814                   | 7795      | 1101             | 0         | 897                | 5880      | -897             | 0         |
| 42         | 30          | 17655                | 6300      | 16050            | 0         | 863                   | 8352      | 1189             | 0         | 900                | 6300      | -900             | 0         |
| 42         | 32          | 18781                | 6720      | 17171            | 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          | 6653                 | 2200      | 5117             | 0         | 317                   | 2917      | 400              | 0         | 765                | 2200      | -765             | 0         |
| 44         | 12          | 7847                 | 2640      | 6277             | 0         | 507                   | 3500      | 353              | 0         | 978                | 2640      | -978             | 0         |
| 44         | 14          | 9036                 | 3080      | 7442             | 0         | 509                   | 4083      | 494              | 0         | 920                | 3080      | -920             | 0         |
| 44         | 16          | 10223                | 3520      | 8609             | 0         | 502                   | 4667      | 645              | 0         | 847                | 3520      | -847             | 0         |
| 44         | 18          | 11408                | 3960      | 9778             | 0         | 614                   | 5250      | 676              | 0         | 940                | 3960      | -940             | 0         |
| 44         | 20          | 12591                | 4400      | 10949            | 0         | 666                   | 5833      | 767              | 0         | 948                | 4400      | -948             | 0         |
| 44         | 22          | 13773                | 4840      | 12121            | 0         | 699                   | 6417      | 878              | 0         | 927                | 4840      | -927             | 0         |
| 44         | 24          | 14955                | 5280      | 13293            | 0         | 750                   | 7000      | 970              | 0         | 932                | 5280      | -932             | 0         |
| 44         | 26          | 16135                | 5720      | 14466            | 0         | 801                   | 7583      | 1062             | 0         | 936                | 5720      | -936             | 0         |
| 44         | 28          | 17316                | 6160      | 15640            | 0         | 853                   | 8167      | 1154             | 0         | 940                | 6160      | -940             | 0         |
| 44         | 30          | 18496                | 6600      | 16814            | 0         | 904                   | 8750      | 1246             | 0         | 943                | 6600      | -943             | 0         |
| 44         | 32          | 19675                | 7040      | 17989            | 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          | 6955                 | 2300      | 5350             | 0         | 331                   | 3049      | 418              | 0         | 800                | 2300      | -800             | 0         |
| 46         | 12          | 8203                 | 2760      | 6563             | 0         | 530                   | 3659      | 369              | 0         | 1022               | 2760      | -1022            | 0         |
| 46         | 14          | 9447                 | 3220      | 7780             | 0         | 532                   | 4269      | 517              | 0         | 962                | 3220      | -962             | 0         |
| 46         | 16          | 10688                | 3680      | 9000             | 0         | 525                   | 4879      | 674              | 0         | 885                | 3680      | -885             | 0         |
| 46         | 18          | 11926                | 4140      | 10223            | 0         | 642                   | 5489      | 707              | 0         | 983                | 4140      | -983             | 0         |
| 46         | 20          | 13163                | 4600      | 11446            | 0         | 696                   | 6098      | 802              | 0         | 991                | 4600      | -991             | 0         |
| 46         | 22          | 14399                | 5060      | 12671            | 0         | 730                   | 6708      | 918              | 0         | 969                | 5060      | -969             | 0         |
| 46         | 24          | 15634                | 5520      | 13897            | 0         | 784                   | 7318      | 1014             | 0         | 974                | 5520      | -974             | 0         |
| 46         | 26          | 16869                | 5980      | 15124            | 0         | 838                   | 7928      | 1110             | 0         | 979                | 5980      | -979             | 0         |
| 46         | 28          | 18103                | 6440      | 16351            | 0         | 891                   | 8538      | 1206             | 0         | 982                | 6440      | -982             | 0         |
| 46         | 30          | 19336                | 6900      | 17578            | 0         | 945                   | 9148      | 1303             | 0         | 986                | 6900      | -986             | 0         |
| 46         | 32          | 20569                | 7360      | 18806            | 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          | 7257                 | 2400      | 5583             | 0         | 346                   | 3182      | 436              | 0         | 835                | 2400      | -835             | 0         |
| 48         | 12          | 8560                 | 2880      | 6848             | 0         | 553                   | 3818      | 385              | 0         | 1067               | 2880      | -1067            | 0         |
| 48         | 14          | 9858                 | 3360      | 8118             | 0         | 556                   | 4455      | 539              | 0         | 1004               | 3360      | -1004            | 0         |
| 48         | 16          | 11152                | 3840      | 9391             | 0         | 548                   | 5091      | 703              | 0         | 924                | 3840      | -924             | 0         |
| 48         | 18          | 12445                | 4320      | 10667            | 0         | 670                   | 5727      | 737              | 0         | 1026               | 4320      | -1026            | 0         |
| 48         | 20          | 13736                | 4800      | 11944            | 0         | 726                   | 6364      | 837              | 0         | 1034               | 4800      | -1034            | 0         |
| 48         | 22          | 15025                | 5280      | 13222            | 0         | 762                   | 7000      | 958              | 0         | 1011               | 5280      | -1011            | 0         |
| 48         | 24          | 16314                | 5760      | 14502            | 0         | 818                   | 7636      | 1058             | 0         | 1016               | 5760      | -1016            | 0         |
| 48         | 26          | 17602                | 6240      | 15781            | 0         | 874                   | 8273      | 1158             | 0         | 1021               | 6240      | -1021            | 0         |
| 48         | 28          | 18890                | 6720      | 17062            | 0         | 930                   | 8909      | 1259             | 0         | 1025               | 6720      | -1025            | 0         |
| 48         | 30          | 20177                | 7200      | 18343            | 0         | 986                   | 9545      | 1359             | 0         | 1029               | 7200      | -1029            | 0         |
| 48         | 32          | 21464                | 7680      | 19624            | 0         | 1042                  | 10182     | 1460             | 0         | 1032               | 7680      | -1032            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 7560                 | 2500      | 5815             | 0         | 360                   | 3314      | 454              | 0         | 870                | 2500      | -870             | 0         |
| 50         | 12          | 8917                 | 3000      | 7133             | 0         | 576                   | 3977      | 401              | 0         | 1111               | 3000      | -1111            | 0         |
| 50         | 14          | 10268                | 3500      | 8456             | 0         | 579                   | 4640      | 561              | 0         | 1045               | 3500      | -1045            | 0         |
| 50         | 16          | 11617                | 4000      | 9783             | 0         | 571                   | 5303      | 732              | 0         | 962                | 4000      | -962             | 0         |
| 50         | 18          | 12963                | 4500      | 11111            | 0         | 698                   | 5966      | 768              | 0         | 1068               | 4500      | -1068            | 0         |
| 50         | 20          | 14308                | 5000      | 12442            | 0         | 757                   | 6629      | 872              | 0         | 1077               | 5000      | -1077            | 0         |
| 50         | 22          | 15651                | 5500      | 13773            | 0         | 794                   | 7292      | 998              | 0         | 1053               | 5500      | -1053            | 0         |
| 50         | 24          | 16994                | 6000      | 15106            | 0         | 852                   | 7955      | 1102             | 0         | 1059               | 6000      | -1059            | 0         |
| 50         | 26          | 18336                | 6500      | 16439            | 0         | 911                   | 8617      | 1207             | 0         | 1064               | 6500      | -1064            | 0         |
| 50         | 28          | 19677                | 7000      | 17773            | 0         | 969                   | 9280      | 1311             | 0         | 1068               | 7000      | -1068            | 0         |
| 50         | 30          | 21018                | 7500      | 19107            | 0         | 1027                  | 9943      | 1416             | 0         | 1071               | 7500      | -1071            | 0         |
| 50         | 32          | 22358                | 8000      | 20442            | 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          | 7862                 | 2600      | 6048             | 0         | 375                   | 3447      | 472              | 0         | 904                | 2600      | -904             | 0         |
| 52         | 12          | 9273                 | 3120      | 7419             | 0         | 600                   | 4136      | 417              | 0         | 1156               | 3120      | -1156            | 0         |
| 52         | 14          | 10679                | 3640      | 8795             | 0         | 602                   | 4826      | 584              | 0         | 1087               | 3640      | -1087            | 0         |
| 52         | 16          | 12082                | 4160      | 10174            | 0         | 593                   | 5515      | 762              | 0         | 1001               | 4160      | -1001            | 0         |
| 52         | 18          | 13482                | 4680      | 11556            | 0         | 726                   | 6205      | 799              | 0         | 1111               | 4680      | -1111            | 0         |
| 52         | 20          | 14880                | 5200      | 12939            | 0         | 787                   | 6894      | 907              | 0         | 1120               | 5200      | -1120            | 0         |
| 52         | 22          | 16278                | 5720      | 14324            | 0         | 826                   | 7583      | 1038             | 0         | 1095               | 5720      | -1095            | 0         |
| 52         | 24          | 17674                | 6240      | 15710            | 0         | 887                   | 8273      | 1146             | 0         | 1101               | 6240      | -1101            | 0         |
| 52         | 26          | 19069                | 6760      | 17097            | 0         | 947                   | 8962      | 1255             | 0         | 1106               | 6760      | -1106            | 0         |
| 52         | 28          | 20464                | 7280      | 18484            | 0         | 1008                  | 9651      | 1364             | 0         | 1111               | 7280      | -1111            | 0         |
| 52         | 30          | 21858                | 7800      | 19871            | 0         | 1068                  | 10341     | 1473             | 0         | 1114               | 7800      | -1114            | 0         |
| 52         | 32          | 23252                | 8320      | 21259            | 0         | 1129                  | 11030     | 1582             | 0         | 1118               | 8320      | -1118            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 8165                 | 2700      | 6280             | 0         | 389                   | 3580      | 491              | 0         | 939                | 2700      | -939             | 0         |
| 54         | 12          | 9630                 | 3240      | 7704             | 0         | 623                   | 4295      | 433              | 0         | 1200               | 3240      | -1200            | 0         |
| 54         | 14          | 11090                | 3780      | 9133             | 0         | 625                   | 5011      | 606              | 0         | 1129               | 3780      | -1129            | 0         |
| 54         | 16          | 12546                | 4320      | 10565            | 0         | 616                   | 5727      | 791              | 0         | 1039               | 4320      | -1039            | 0         |
| 54         | 18          | 14000                | 4860      | 12000            | 0         | 754                   | 6443      | 830              | 0         | 1154               | 4860      | -1154            | 0         |
| 54         | 20          | 15453                | 5400      | 13437            | 0         | 817                   | 7159      | 942              | 0         | 1163               | 5400      | -1163            | 0         |
| 54         | 22          | 16904                | 5940      | 14875            | 0         | 858                   | 7875      | 1077             | 0         | 1137               | 5940      | -1137            | 0         |
| 54         | 24          | 18354                | 6480      | 16314            | 0         | 921                   | 8591      | 1190             | 0         | 1144               | 6480      | -1144            | 0         |
| 54         | 26          | 19803                | 7020      | 17754            | 0         | 984                   | 9307      | 1303             | 0         | 1149               | 7020      | -1149            | 0         |
| 54         | 28          | 21251                | 7560      | 19195            | 0         | 1047                  | 10023     | 1416             | 0         | 1153               | 7560      | -1153            | 0         |
| 54         | 30          | 22699                | 8100      | 20636            | 0         | 1109                  | 10739     | 1529             | 0         | 1157               | 8100      | -1157            | 0         |
| 54         | 32          | 24147                | 8640      | 22077            | 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          | 8467                 | 2800      | 6513             | 0         | 403                   | 3712      | 509              | 0         | 974                | 2800      | -974             | 0         |
| 56         | 12          | 9987                 | 3360      | 7989             | 0         | 646                   | 4455      | 449              | 0         | 1244               | 3360      | -1244            | 0         |
| 56         | 14          | 11501                | 3920      | 9471             | 0         | 648                   | 5197      | 629              | 0         | 1171               | 3920      | -1171            | 0         |
| 56         | 16          | 13011                | 4480      | 10957            | 0         | 639                   | 5939      | 820              | 0         | 1078               | 4480      | -1078            | 0         |
| 56         | 18          | 14519                | 5040      | 12445            | 0         | 781                   | 6682      | 860              | 0         | 1197               | 5040      | -1197            | 0         |
| 56         | 20          | 16025                | 5600      | 13935            | 0         | 848                   | 7424      | 977              | 0         | 1206               | 5600      | -1206            | 0         |
| 56         | 22          | 17530                | 6160      | 15426            | 0         | 889                   | 8167      | 1117             | 0         | 1180               | 6160      | -1180            | 0         |
| 56         | 24          | 19033                | 6720      | 16918            | 0         | 955                   | 8909      | 1234             | 0         | 1186               | 6720      | -1186            | 0         |
| 56         | 26          | 20536                | 7280      | 18412            | 0         | 1020                  | 9651      | 1351             | 0         | 1191               | 7280      | -1191            | 0         |
| 56         | 28          | 22038                | 7840      | 19905            | 0         | 1085                  | 10394     | 1469             | 0         | 1196               | 7840      | -1196            | 0         |
| 56         | 30          | 23540                | 8400      | 21400            | 0         | 1150                  | 11136     | 1586             | 0         | 1200               | 8400      | -1200            | 0         |
| 56         | 32          | 25041                | 8960      | 22895            | 0         | 1215                  | 11879     | 1703             | 0         | 1204               | 8960      | -1204            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 8769                 | 2900      | 6746             | 0         | 418                   | 3845      | 527              | 0         | 1009               | 2900      | -1009            | 0         |
| 58         | 12          | 10343                | 3480      | 8275             | 0         | 669                   | 4614      | 465              | 0         | 1289               | 3480      | -1289            | 0         |
| 58         | 14          | 11911                | 4060      | 9809             | 0         | 671                   | 5383      | 651              | 0         | 1213               | 4060      | -1213            | 0         |
| 58         | 16          | 13476                | 4640      | 11348            | 0         | 662                   | 6151      | 850              | 0         | 1116               | 4640      | -1116            | 0         |
| 58         | 18          | 15038                | 5220      | 12889            | 0         | 809                   | 6920      | 891              | 0         | 1239               | 5220      | -1239            | 0         |
| 58         | 20          | 16597                | 5800      | 14432            | 0         | 878                   | 7689      | 1012             | 0         | 1249               | 5800      | -1249            | 0         |
| 58         | 22          | 18156                | 6380      | 15977            | 0         | 921                   | 8458      | 1157             | 0         | 1222               | 6380      | -1222            | 0         |
| 58         | 24          | 19713                | 6960      | 17523            | 0         | 989                   | 9227      | 1278             | 0         | 1228               | 6960      | -1228            | 0         |
| 58         | 26          | 21270                | 7540      | 19069            | 0         | 1056                  | 9996      | 1400             | 0         | 1234               | 7540      | -1234            | 0         |
| 58         | 28          | 22825                | 8120      | 20616            | 0         | 1124                  | 10765     | 1521             | 0         | 1239               | 8120      | -1239            | 0         |
| 58         | 30          | 24381                | 8700      | 22164            | 0         | 1191                  | 11534     | 1643             | 0         | 1243               | 8700      | -1243            | 0         |
| 58         | 32          | 25935                | 9280      | 23712            | 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          | 9072                 | 3000      | 6978             | 0         | 432                   | 3977      | 545              | 0         | 1043               | 3000      | -1043            | 0         |
| 60         | 12          | 10700                | 3600      | 8560             | 0         | 692                   | 4773      | 481              | 0         | 1333               | 3600      | -1333            | 0         |
| 60         | 14          | 12322                | 4200      | 10148            | 0         | 694                   | 5568      | 674              | 0         | 1255               | 4200      | -1255            | 0         |
| 60         | 16          | 13940                | 4800      | 11739            | 0         | 685                   | 6364      | 879              | 0         | 1155               | 4800      | -1155            | 0         |
| 60         | 18          | 15556                | 5400      | 13334            | 0         | 837                   | 7159      | 922              | 0         | 1282               | 5400      | -1282            | 0         |
| 60         | 20          | 17170                | 6000      | 14930            | 0         | 908                   | 7955      | 1046             | 0         | 1292               | 6000      | -1292            | 0         |
| 60         | 22          | 18782                | 6600      | 16528            | 0         | 953                   | 8750      | 1197             | 0         | 1264               | 6600      | -1264            | 0         |
| 60         | 24          | 20393                | 7200      | 18127            | 0         | 1023                  | 9545      | 1323             | 0         | 1271               | 7200      | -1271            | 0         |
| 60         | 26          | 22003                | 7800      | 19727            | 0         | 1093                  | 10341     | 1448             | 0         | 1276               | 7800      | -1276            | 0         |
| 60         | 28          | 23612                | 8400      | 21327            | 0         | 1163                  | 11136     | 1574             | 0         | 1281               | 8400      | -1281            | 0         |
| 60         | 30          | 25221                | 9000      | 22928            | 0         | 1233                  | 11932     | 1699             | 0         | 1286               | 9000      | -1286            | 0         |
| 60         | 32          | 26830                | 9600      | 24530            | 0         | 1302                  | 12727     | 1825             | 0         | 1290               | 9600      | -1290            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 9374                 | 3100      | 7211             | 0         | 447                   | 4110      | 563              | 0         | 1078               | 3100      | -1078            | 0         |
| 62         | 12          | 11057                | 3720      | 8845             | 0         | 715                   | 4932      | 497              | 0         | 1378               | 3720      | -1378            | 0         |
| 62         | 14          | 12733                | 4340      | 10486            | 0         | 718                   | 5754      | 696              | 0         | 1296               | 4340      | -1296            | 0         |
| 62         | 16          | 14405                | 4960      | 12131            | 0         | 708                   | 6576      | 908              | 0         | 1193               | 4960      | -1193            | 0         |
| 62         | 18          | 16075                | 5580      | 13778            | 0         | 865                   | 7398      | 952              | 0         | 1325               | 5580      | -1325            | 0         |
| 62         | 20          | 17742                | 6200      | 15428            | 0         | 938                   | 8220      | 1081             | 0         | 1335               | 6200      | -1335            | 0         |
| 62         | 22          | 19408                | 6820      | 17079            | 0         | 985                   | 9042      | 1237             | 0         | 1306               | 6820      | -1306            | 0         |
| 62         | 24          | 21073                | 7440      | 18731            | 0         | 1057                  | 9864      | 1367             | 0         | 1313               | 7440      | -1313            | 0         |
| 62         | 26          | 22736                | 8060      | 20384            | 0         | 1129                  | 10686     | 1496             | 0         | 1319               | 8060      | -1319            | 0         |
| 62         | 28          | 24399                | 8680      | 22038            | 0         | 1202                  | 11508     | 1626             | 0         | 1324               | 8680      | -1324            | 0         |
| 62         | 30          | 26062                | 9300      | 23693            | 0         | 1274                  | 12330     | 1756             | 0         | 1329               | 9300      | -1329            | 0         |
| 62         | 32          | 27724                | 9920      | 25348            | 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          | 9676                 | 3200      | 7443             | 0         | 461                   | 4242      | 581              | 0         | 1113               | 3200      | -1113            | 0         |
| 64         | 12          | 11413                | 3840      | 9131             | 0         | 738                   | 5091      | 513              | 0         | 1422               | 3840      | -1422            | 0         |
| 64         | 14          | 13144                | 4480      | 10824            | 0         | 741                   | 5939      | 719              | 0         | 1338               | 4480      | -1338            | 0         |
| 64         | 16          | 14870                | 5120      | 12522            | 0         | 730                   | 6788      | 938              | 0         | 1232               | 5120      | -1232            | 0         |
| 64         | 18          | 16593                | 5760      | 14223            | 0         | 893                   | 7636      | 983              | 0         | 1368               | 5760      | -1368            | 0         |
| 64         | 20          | 18314                | 6400      | 15925            | 0         | 969                   | 8485      | 1116             | 0         | 1378               | 6400      | -1378            | 0         |
| 64         | 22          | 20034                | 7040      | 17630            | 0         | 1016                  | 9333      | 1277             | 0         | 1348               | 7040      | -1348            | 0         |
| 64         | 24          | 21752                | 7680      | 19335            | 0         | 1091                  | 10182     | 1411             | 0         | 1355               | 7680      | -1355            | 0         |
| 64         | 26          | 23470                | 8320      | 21042            | 0         | 1166                  | 11030     | 1544             | 0         | 1361               | 8320      | -1361            | 0         |
| 64         | 28          | 25187                | 8960      | 22749            | 0         | 1240                  | 11879     | 1678             | 0         | 1367               | 8960      | -1367            | 0         |
| 64         | 30          | 26903                | 9600      | 24457            | 0         | 1315                  | 12727     | 1812             | 0         | 1371               | 9600      | -1371            | 0         |
| 64         | 32          | 28618                | 10240     | 26165            | 0         | 1389                  | 13576     | 1947             | 0         | 1376               | 10240     | -1376            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 9979                 | 3300      | 7676             | 0         | 475                   | 4375      | 600              | 0         | 1148               | 3300      | -1148            | 0         |
| 66         | 12          | 11770                | 3960      | 9416             | 0         | 761                   | 5250      | 529              | 0         | 1467               | 3960      | -1467            | 0         |
| 66         | 14          | 13554                | 4620      | 11162            | 0         | 764                   | 6125      | 741              | 0         | 1380               | 4620      | -1380            | 0         |
| 66         | 16          | 15335                | 5280      | 12913            | 0         | 753                   | 7000      | 967              | 0         | 1270               | 5280      | -1270            | 0         |
| 66         | 18          | 17112                | 5940      | 14667            | 0         | 921                   | 7875      | 1014             | 0         | 1410               | 5940      | -1410            | 0         |
| 66         | 20          | 18887                | 6600      | 16423            | 0         | 999                   | 8750      | 1151             | 0         | 1421               | 6600      | -1421            | 0         |
| 66         | 22          | 20660                | 7260      | 18181            | 0         | 1048                  | 9625      | 1317             | 0         | 1390               | 7260      | -1390            | 0         |
| 66         | 24          | 22432                | 7920      | 19940            | 0         | 1125                  | 10500     | 1455             | 0         | 1398               | 7920      | -1398            | 0         |
| 66         | 26          | 24203                | 8580      | 21699            | 0         | 1202                  | 11375     | 1593             | 0         | 1404               | 8580      | -1404            | 0         |
| 66         | 28          | 25974                | 9240      | 23460            | 0         | 1279                  | 12250     | 1731             | 0         | 1409               | 9240      | -1409            | 0         |
| 66         | 30          | 27743                | 9900      | 25221            | 0         | 1356                  | 13125     | 1869             | 0         | 1414               | 9900      | -1414            | 0         |
| 66         | 32          | 29513                | 10560     | 26983            | 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          | 10281                | 3400      | 7909             | 0         | 490                   | 4508      | 618              | 0         | 1183               | 3400      | -1183            | 0         |
| 68         | 12          | 12127                | 4080      | 9701             | 0         | 784                   | 5409      | 545              | 0         | 1511               | 4080      | -1511            | 0         |
| 68         | 14          | 13965                | 4760      | 11501            | 0         | 787                   | 6311      | 764              | 0         | 1422               | 4760      | -1422            | 0         |
| 68         | 16          | 15799                | 5440      | 13305            | 0         | 776                   | 7212      | 996              | 0         | 1309               | 5440      | -1309            | 0         |
| 68         | 18          | 17630                | 6120      | 15112            | 0         | 949                   | 8114      | 1045             | 0         | 1453               | 6120      | -1453            | 0         |
| 68         | 20          | 19459                | 6800      | 16921            | 0         | 1029                  | 9015      | 1186             | 0         | 1464               | 6800      | -1464            | 0         |
| 68         | 22          | 21286                | 7480      | 18732            | 0         | 1080                  | 9917      | 1357             | 0         | 1432               | 7480      | -1432            | 0         |
| 68         | 24          | 23112                | 8160      | 20544            | 0         | 1159                  | 10818     | 1499             | 0         | 1440               | 8160      | -1440            | 0         |
| 68         | 26          | 24937                | 8840      | 22357            | 0         | 1239                  | 11720     | 1641             | 0         | 1447               | 8840      | -1447            | 0         |
| 68         | 28          | 26761                | 9520      | 24171            | 0         | 1318                  | 12621     | 1783             | 0         | 1452               | 9520      | -1452            | 0         |
| 68         | 30          | 28584                | 10200     | 25986            | 0         | 1397                  | 13523     | 1926             | 0         | 1457               | 10200     | -1457            | 0         |
| 68         | 32          | 30407                | 10880     | 27801            | 0         | 1476                  | 14424     | 2068             | 0         | 1461               | 10880     | -1461            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 10584                | 3500      | 8141             | 0         | 504                   | 4640      | 636              | 0         | 1217               | 3500      | -1217            | 0         |
| 70         | 12          | 12483                | 4200      | 9987             | 0         | 807                   | 5568      | 561              | 0         | 1556               | 4200      | -1556            | 0         |
| 70         | 14          | 14376                | 4900      | 11839            | 0         | 810                   | 6496      | 786              | 0         | 1464               | 4900      | -1464            | 0         |
| 70         | 16          | 16264                | 5600      | 13696            | 0         | 799                   | 7424      | 1025             | 0         | 1347               | 5600      | -1347            | 0         |
| 70         | 18          | 18149                | 6300      | 15556            | 0         | 977                   | 8352      | 1075             | 0         | 1496               | 6300      | -1496            | 0         |
| 70         | 20          | 20031                | 7000      | 17418            | 0         | 1059                  | 9280      | 1221             | 0         | 1507               | 7000      | -1507            | 0         |
| 70         | 22          | 21912                | 7700      | 19283            | 0         | 1112                  | 10208     | 1397             | 0         | 1474               | 7700      | -1474            | 0         |
| 70         | 24          | 23792                | 8400      | 21148            | 0         | 1193                  | 11136     | 1543             | 0         | 1482               | 8400      | -1482            | 0         |
| 70         | 26          | 25670                | 9100      | 23015            | 0         | 1275                  | 12064     | 1689             | 0         | 1489               | 9100      | -1489            | 0         |
| 70         | 28          | 27548                | 9800      | 24882            | 0         | 1357                  | 12992     | 1836             | 0         | 1495               | 9800      | -1495            | 0         |
| 70         | 30          | 29425                | 10500     | 26750            | 0         | 1438                  | 13920     | 1982             | 0         | 1500               | 10500     | -1500            | 0         |
| 70         | 32          | 31301                | 11200     | 28618            | 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          | 10886                | 3600      | 8374             | 0         | 519                   | 4773      | 654              | 0         | 1252               | 3600      | -1252            | 0         |
| 72         | 12          | 12840                | 4320      | 10272            | 0         | 830                   | 5727      | 577              | 0         | 1600               | 4320      | -1600            | 0         |
| 72         | 14          | 14787                | 5040      | 12177            | 0         | 833                   | 6682      | 808              | 0         | 1505               | 5040      | -1505            | 0         |
| 72         | 16          | 16729                | 5760      | 14087            | 0         | 822                   | 7636      | 1055             | 0         | 1386               | 5760      | -1386            | 0         |
| 72         | 18          | 18667                | 6480      | 16001            | 0         | 1005                  | 8591      | 1106             | 0         | 1539               | 6480      | -1539            | 0         |
| 72         | 20          | 20604                | 7200      | 17916            | 0         | 1090                  | 9545      | 1256             | 0         | 1551               | 7200      | -1551            | 0         |
| 72         | 22          | 22538                | 7920      | 19834            | 0         | 1143                  | 10500     | 1437             | 0         | 1517               | 7920      | -1517            | 0         |
| 72         | 24          | 24471                | 8640      | 21752            | 0         | 1228                  | 11455     | 1587             | 0         | 1525               | 8640      | -1525            | 0         |
| 72         | 26          | 26404                | 9360      | 23672            | 0         | 1311                  | 12409     | 1738             | 0         | 1532               | 9360      | -1532            | 0         |
| 72         | 28          | 28335                | 10080     | 25593            | 0         | 1395                  | 13364     | 1888             | 0         | 1538               | 10080     | -1538            | 0         |
| 72         | 30          | 30266                | 10800     | 27514            | 0         | 1479                  | 14318     | 2039             | 0         | 1543               | 10800     | -1543            | 0         |
| 72         | 32          | 32196                | 11520     | 29436            | 0         | 1563                  | 15273     | 2190             | 0         | 1547               | 11520     | -1547            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 11188                | 3700      | 8606             | 0         | 533                   | 4905      | 672              | 0         | 1287               | 3700      | -1287            | 0         |
| 74         | 12          | 13197                | 4440      | 10557            | 0         | 853                   | 5886      | 593              | 0         | 1644               | 4440      | -1644            | 0         |
| 74         | 14          | 15197                | 5180      | 12515            | 0         | 857                   | 6867      | 831              | 0         | 1547               | 5180      | -1547            | 0         |
| 74         | 16          | 17193                | 5920      | 14479            | 0         | 844                   | 7848      | 1084             | 0         | 1424               | 5920      | -1424            | 0         |
| 74         | 18          | 19186                | 6660      | 16445            | 0         | 1033                  | 8830      | 1137             | 0         | 1581               | 6660      | -1581            | 0         |
| 74         | 20          | 21176                | 7400      | 18414            | 0         | 1120                  | 9811      | 1291             | 0         | 1594               | 7400      | -1594            | 0         |
| 74         | 22          | 23164                | 8140      | 20385            | 0         | 1175                  | 10792     | 1477             | 0         | 1559               | 8140      | -1559            | 0         |
| 74         | 24          | 25151                | 8880      | 22357            | 0         | 1262                  | 11773     | 1631             | 0         | 1567               | 8880      | -1567            | 0         |
| 74         | 26          | 25670                | 9620      | 24330            | 0         | 1348                  | 12754     | 1786             | 0         | 1574               | 9620      | -1574            | 0         |
| 74         | 28          | 27548                | 10360     | 26304            | 0         | 1434                  | 13735     | 1941             | 0         | 1580               | 10360     | -1580            | 0         |
| 74         | 30          | 29425                | 11100     | 28278            | 0         | 1520                  | 14716     | 2096             | 0         | 1586               | 11100     | -1586            | 0         |
| 74         | 32          | 31301                | 11840     | 30254            | 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          | 11491                | 3800      | 8839             | 0         | 547                   | 5038      | 690              | 0         | 1322               | 3800      | -1322            | 0         |
| 76         | 12          | 13553                | 4560      | 10843            | 0         | 876                   | 6045      | 609              | 0         | 1689               | 4560      | -1689            | 0         |
| 76         | 14          | 15608                | 5320      | 12854            | 0         | 880                   | 7053      | 853              | 0         | 1589               | 5320      | -1589            | 0         |
| 76         | 16          | 17658                | 6080      | 14870            | 0         | 867                   | 8061      | 1113             | 0         | 1463               | 6080      | -1463            | 0         |
| 76         | 18          | 19704                | 6840      | 16889            | 0         | 1061                  | 9068      | 1168             | 0         | 1624               | 6840      | -1624            | 0         |
| 76         | 20          | 21748                | 7600      | 18912            | 0         | 1150                  | 10076     | 1325             | 0         | 1637               | 7600      | -1637            | 0         |
| 76         | 22          | 23790                | 8360      | 20935            | 0         | 1207                  | 11083     | 1516             | 0         | 1601               | 8360      | -1601            | 0         |
| 76         | 24          | 25831                | 9120      | 22961            | 0         | 1296                  | 12091     | 1675             | 0         | 1609               | 9120      | -1609            | 0         |
| 76         | 26          | 27870                | 9880      | 24987            | 0         | 1384                  | 13098     | 1834             | 0         | 1617               | 9880      | -1617            | 0         |
| 76         | 28          | 29909                | 10640     | 27015            | 0         | 1473                  | 14106     | 1993             | 0         | 1623               | 10640     | -1623            | 0         |
| 76         | 30          | 31947                | 11400     | 29043            | 0         | 1561                  | 15114     | 2152             | 0         | 1629               | 11400     | -1629            | 0         |
| 76         | 32          | 33984                | 12160     | 31071            | 0         | 1650                  | 16121     | 2312             | 0         | 1633               | 12160     | -1633            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 11793                | 3900      | 9072             | 0         | 562                   | 5170      | 709              | 0         | 1357               | 3900      | -1357            | 0         |
| 78         | 12          | 13910                | 4680      | 11128            | 0         | 899                   | 6205      | 625              | 0         | 1733               | 4680      | -1733            | 0         |
| 78         | 14          | 16019                | 5460      | 13192            | 0         | 903                   | 7239      | 876              | 0         | 1631               | 5460      | -1631            | 0         |
| 78         | 16          | 18123                | 6240      | 15261            | 0         | 890                   | 8273      | 1143             | 0         | 1501               | 6240      | -1501            | 0         |
| 78         | 18          | 20223                | 7020      | 17334            | 0         | 1089                  | 9307      | 1198             | 0         | 1667               | 7020      | -1667            | 0         |
| 78         | 20          | 22321                | 7800      | 19409            | 0         | 1181                  | 10341     | 1360             | 0         | 1680               | 7800      | -1680            | 0         |
| 78         | 22          | 24416                | 8580      | 21486            | 0         | 1239                  | 11375     | 1556             | 0         | 1643               | 8580      | -1643            | 0         |
| 78         | 24          | 26511                | 9360      | 23565            | 0         | 1330                  | 12409     | 1719             | 0         | 1652               | 9360      | -1652            | 0         |
| 78         | 26          | 28604                | 10140     | 25645            | 0         | 1421                  | 13443     | 1882             | 0         | 1659               | 10140     | -1659            | 0         |
| 78         | 28          | 30696                | 10920     | 27726            | 0         | 1512                  | 14477     | 2046             | 0         | 1666               | 10920     | -1666            | 0         |
| 78         | 30          | 32788                | 11700     | 29807            | 0         | 1602                  | 15511     | 2209             | 0         | 1671               | 11700     | -1671            | 0         |
| 78         | 32          | 34879                | 12480     | 31889            | 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          | 12096                | 4000      | 9304             | 0         | 576                   | 5303      | 727              | 0         | 1391               | 4000      | -1391            | 0         |
| 80         | 12          | 14267                | 4800      | 11413            | 0         | 922                   | 6364      | 641              | 0         | 1778               | 4800      | -1778            | 0         |
| 80         | 14          | 16430                | 5600      | 13530            | 0         | 926                   | 7424      | 898              | 0         | 1673               | 5600      | -1673            | 0         |
| 80         | 16          | 18587                | 6400      | 15652            | 0         | 913                   | 8485      | 1172             | 0         | 1540               | 6400      | -1540            | 0         |
| 80         | 18          | 20741                | 7200      | 17778            | 0         | 1116                  | 9545      | 1229             | 0         | 1710               | 7200      | -1710            | 0         |
| 80         | 20          | 22893                | 8000      | 19907            | 0         | 1211                  | 10606     | 1395             | 0         | 1723               | 8000      | -1723            | 0         |
| 80         | 22          | 25042                | 8800      | 22037            | 0         | 1270                  | 11667     | 1596             | 0         | 1685               | 8800      | -1685            | 0         |
| 80         | 24          | 27190                | 9600      | 24169            | 0         | 1364                  | 12727     | 1763             | 0         | 1694               | 9600      | -1694            | 0         |
| 80         | 26          | 29337                | 10400     | 26302            | 0         | 1457                  | 13788     | 1931             | 0         | 1702               | 10400     | -1702            | 0         |
| 80         | 28          | 31483                | 11200     | 28436            | 0         | 1550                  | 14848     | 2098             | 0         | 1708               | 11200     | -1708            | 0         |
| 80         | 30          | 33628                | 12000     | 30571            | 0         | 1643                  | 15909     | 2266             | 0         | 1714               | 12000     | -1714            | 0         |
| 80         | 32          | 35773                | 12800     | 32707            | 0         | 1736                  | 16970     | 2433             | 0         | 1719               | 12800     | -1719            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 12398                | 4100      | 9537             | 0         | 591                   | 5436      | 745              | 0         | 1426               | 4100      | -1426            | 0         |
| 82         | 12          | 14623                | 4920      | 11699            | 0         | 945                   | 6523      | 657              | 0         | 1822               | 4920      | -1822            | 0         |
| 82         | 14          | 16840                | 5740      | 13868            | 0         | 949                   | 7610      | 921              | 0         | 1715               | 5740      | -1715            | 0         |
| 82         | 16          | 19052                | 6560      | 16044            | 0         | 936                   | 8697      | 1201             | 0         | 1578               | 6560      | -1578            | 0         |
| 82         | 18          | 21260                | 7380      | 18223            | 0         | 1144                  | 9784      | 1260             | 0         | 1752               | 7380      | -1752            | 0         |
| 82         | 20          | 23465                | 8200      | 20405            | 0         | 1241                  | 10871     | 1430             | 0         | 1766               | 8200      | -1766            | 0         |
| 82         | 22          | 25668                | 9020      | 22588            | 0         | 1302                  | 11958     | 1636             | 0         | 1727               | 9020      | -1727            | 0         |
| 82         | 24          | 27870                | 9840      | 24773            | 0         | 1398                  | 13045     | 1807             | 0         | 1736               | 9840      | -1736            | 0         |
| 82         | 26          | 30071                | 10660     | 26960            | 0         | 1494                  | 14133     | 1979             | 0         | 1744               | 10660     | -1744            | 0         |
| 82         | 28          | 32270                | 11480     | 29147            | 0         | 1589                  | 15220     | 2151             | 0         | 1751               | 11480     | -1751            | 0         |
| 82         | 30          | 34469                | 12300     | 31336            | 0         | 1685                  | 16307     | 2322             | 0         | 1757               | 12300     | -1757            | 0         |
| 82         | 32          | 36667                | 13120     | 33524            | 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          | 12700                | 4200      | 9770             | 0         | 605                   | 5568      | 763              | 0         | 1461               | 4200      | -1461            | 0         |
| 84         | 12          | 14980                | 5040      | 11984            | 0         | 968                   | 6682      | 673              | 0         | 1867               | 5040      | -1867            | 0         |
| 84         | 14          | 17251                | 5880      | 14207            | 0         | 972                   | 7795      | 943              | 0         | 1756               | 5880      | -1756            | 0         |
| 84         | 16          | 19517                | 6720      | 16435            | 0         | 959                   | 8909      | 1231             | 0         | 1617               | 6720      | -1617            | 0         |
| 84         | 18          | 21778                | 7560      | 18667            | 0         | 1172                  | 10023     | 1290             | 0         | 1795               | 7560      | -1795            | 0         |
| 84         | 20          | 24038                | 8400      | 20902            | 0         | 1271                  | 11136     | 1465             | 0         | 1809               | 8400      | -1809            | 0         |
| 84         | 22          | 26295                | 9240      | 23139            | 0         | 1334                  | 12250     | 1676             | 0         | 1769               | 9240      | -1769            | 0         |
| 84         | 24          | 28550                | 10080     | 25378            | 0         | 1432                  | 13364     | 1852             | 0         | 1779               | 10080     | -1779            | 0         |
| 84         | 26          | 30804                | 10920     | 27617            | 0         | 1530                  | 14477     | 2027             | 0         | 1787               | 10920     | -1787            | 0         |
| 84         | 28          | 33057                | 11760     | 29858            | 0         | 1628                  | 15591     | 2203             | 0         | 1794               | 11760     | -1794            | 0         |
| 84         | 30          | 35310                | 12600     | 32100            | 0         | 1726                  | 16704     | 2379             | 0         | 1800               | 12600     | -1800            | 0         |
| 84         | 32          | 37562                | 13440     | 34342            | 0         | 1823                  | 17818     | 2555             | 0         | 1805               | 13440     | -1805            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 13003                | 4300      | 10002            | 0         | 619                   | 5701      | 781              | 0         | 1496               | 4300      | -1496            | 0         |
| 86         | 12          | 15337                | 5160      | 12269            | 0         | 992                   | 6841      | 689              | 0         | 1911               | 5160      | -1911            | 0         |
| 86         | 14          | 17662                | 6020      | 14545            | 0         | 995                   | 7981      | 966              | 0         | 1798               | 6020      | -1798            | 0         |
| 86         | 16          | 19981                | 6880      | 16826            | 0         | 981                   | 9121      | 1260             | 0         | 1655               | 6880      | -1655            | 0         |
| 86         | 18          | 22297                | 7740      | 19112            | 0         | 1200                  | 10261     | 1321             | 0         | 1838               | 7740      | -1838            | 0         |
| 86         | 20          | 24610                | 8600      | 21400            | 0         | 1302                  | 11401     | 1500             | 0         | 1852               | 8600      | -1852            | 0         |
| 86         | 22          | 26921                | 9460      | 23690            | 0         | 1366                  | 12542     | 1716             | 0         | 1811               | 9460      | -1811            | 0         |
| 86         | 24          | 29230                | 10320     | 25982            | 0         | 1466                  | 13682     | 1896             | 0         | 1821               | 10320     | -1821            | 0         |
| 86         | 26          | 31538                | 11180     | 28275            | 0         | 1567                  | 14822     | 2075             | 0         | 1829               | 11180     | -1829            | 0         |
| 86         | 28          | 33844                | 12040     | 30569            | 0         | 1667                  | 15962     | 2255             | 0         | 1837               | 12040     | -1837            | 0         |
| 86         | 30          | 36150                | 12900     | 32864            | 0         | 1767                  | 17102     | 2436             | 0         | 1843               | 12900     | -1843            | 0         |
| 86         | 32          | 38456                | 13760     | 35160            | 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          | 13305                | 4400      | 10235            | 0         | 634                   | 5833      | 799              | 0         | 1530               | 4400      | -1530            | 0         |
| 88         | 12          | 15693                | 5280      | 12555            | 0         | 1015                  | 7000      | 705              | 0         | 1956               | 5280      | -1956            | 0         |
| 88         | 14          | 18073                | 6160      | 14883            | 0         | 1019                  | 8167      | 988              | 0         | 1840               | 6160      | -1840            | 0         |
| 88         | 16          | 20446                | 7040      | 17218            | 0         | 1004                  | 9333      | 1289             | 0         | 1694               | 7040      | -1694            | 0         |
| 88         | 18          | 22816                | 7920      | 19556            | 0         | 1228                  | 10500     | 1352             | 0         | 1880               | 7920      | -1880            | 0         |
| 88         | 20          | 25182                | 8800      | 21898            | 0         | 1332                  | 11667     | 1535             | 0         | 1895               | 8800      | -1895            | 0         |
| 88         | 22          | 27547                | 9680      | 24241            | 0         | 1397                  | 12833     | 1756             | 0         | 1854               | 9680      | -1854            | 0         |
| 88         | 24          | 29909                | 10560     | 26586            | 0         | 1500                  | 14000     | 1940             | 0         | 1864               | 10560     | -1864            | 0         |
| 88         | 26          | 32271                | 11440     | 28933            | 0         | 1603                  | 15167     | 2124             | 0         | 1872               | 11440     | -1872            | 0         |
| 88         | 28          | 34632                | 12320     | 31280            | 0         | 1705                  | 16333     | 2308             | 0         | 1879               | 12320     | -1879            | 0         |
| 88         | 30          | 36991                | 13200     | 33628            | 0         | 1808                  | 17500     | 2492             | 0         | 1886               | 13200     | -1886            | 0         |
| 88         | 32          | 39350                | 14080     | 35977            | 0         | 1910                  | 18667     | 2677             | 0         | 1891               | 14080     | -1891            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 13608                | 4500      | 10467            | 0         | 648                   | 5966      | 818              | 0         | 1565               | 4500      | -1565            | 0         |
| 90         | 12          | 16050                | 5400      | 12840            | 0         | 1038                  | 7159      | 721              | 0         | 2000               | 5400      | -2000            | 0         |
| 90         | 14          | 18483                | 6300      | 15222            | 0         | 1042                  | 8352      | 1011             | 0         | 1882               | 6300      | -1882            | 0         |
| 90         | 16          | 20911                | 7200      | 17609            | 0         | 1027                  | 9545      | 1318             | 0         | 1732               | 7200      | -1732            | 0         |
| 90         | 18          | 23334                | 8100      | 20001            | 0         | 1256                  | 10739     | 1383             | 0         | 1923               | 8100      | -1923            | 0         |
| 90         | 20          | 25754                | 9000      | 22395            | 0         | 1362                  | 11932     | 1570             | 0         | 1938               | 9000      | -1938            | 0         |
| 90         | 22          | 28173                | 9900      | 24792            | 0         | 1429                  | 13125     | 1796             | 0         | 1896               | 9900      | -1896            | 0         |
| 90         | 24          | 30589                | 10800     | 27190            | 0         | 1534                  | 14318     | 1984             | 0         | 1906               | 10800     | -1906            | 0         |
| 90         | 26          | 33004                | 11700     | 29590            | 0         | 1639                  | 15511     | 2172             | 0         | 1915               | 11700     | -1915            | 0         |
| 90         | 28          | 35419                | 12600     | 31991            | 0         | 1744                  | 16704     | 2360             | 0         | 1922               | 12600     | -1922            | 0         |
| 90         | 30          | 37832                | 13500     | 34393            | 0         | 1849                  | 17898     | 2549             | 0         | 1929               | 13500     | -1929            | 0         |
| 90         | 32          | 40245                | 14400     | 36795            | 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          | 13910                | 4600      | 10700            | 0         | 663                   | 6098      | 836              | 0         | 1600               | 4600      | -1600            | 0         |
| 92         | 12          | 16407                | 5520      | 13125            | 0         | 1061                  | 7318      | 737              | 0         | 2044               | 5520      | -2044            | 0         |
| 92         | 14          | 18894                | 6440      | 15560            | 0         | 1065                  | 8538      | 1033             | 0         | 1924               | 6440      | -1924            | 0         |
| 92         | 16          | 21375                | 7360      | 18000            | 0         | 1050                  | 9758      | 1348             | 0         | 1771               | 7360      | -1771            | 0         |
| 92         | 18          | 23853                | 8280      | 20445            | 0         | 1284                  | 10977     | 1413             | 0         | 1966               | 8280      | -1966            | 0         |
| 92         | 20          | 26327                | 9200      | 22893            | 0         | 1392                  | 12197     | 1605             | 0         | 1981               | 9200      | -1981            | 0         |
| 92         | 22          | 28799                | 10120     | 25343            | 0         | 1461                  | 13417     | 1836             | 0         | 1938               | 10120     | -1938            | 0         |
| 92         | 24          | 31269                | 11040     | 27795            | 0         | 1568                  | 14636     | 2028             | 0         | 1948               | 11040     | -1948            | 0         |
| 92         | 26          | 33738                | 11960     | 30248            | 0         | 1676                  | 15856     | 2220             | 0         | 1957               | 11960     | -1957            | 0         |
| 92         | 28          | 36206                | 12880     | 32702            | 0         | 1783                  | 17076     | 2413             | 0         | 1965               | 12880     | -1965            | 0         |
| 92         | 30          | 38673                | 13800     | 35157            | 0         | 1890                  | 18295     | 2605             | 0         | 1971               | 13800     | -1971            | 0         |
| 92         | 32          | 41139                | 14720     | 37613            | 0         | 1997                  | 19515     | 2798             | 0         | 1977               | 14720     | -1977            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 14212                | 4700      | 10933            | 0         | 677                   | 6231      | 854              | 0         | 1635               | 4700      | -1635            | 0         |
| 94         | 12          | 16763                | 5640      | 13411            | 0         | 1084                  | 7477      | 753              | 0         | 2089               | 5640      | -2089            | 0         |
| 94         | 14          | 19305                | 6580      | 15898            | 0         | 1088                  | 8723      | 1055             | 0         | 1966               | 6580      | -1966            | 0         |
| 94         | 16          | 21840                | 7520      | 18392            | 0         | 1073                  | 9970      | 1377             | 0         | 1809               | 7520      | -1809            | 0         |
| 94         | 18          | 24371                | 8460      | 20890            | 0         | 1312                  | 11216     | 1444             | 0         | 2009               | 8460      | -2009            | 0         |
| 94         | 20          | 26899                | 9400      | 23391            | 0         | 1423                  | 12462     | 1639             | 0         | 2024               | 9400      | -2024            | 0         |
| 94         | 22          | 29425                | 10340     | 25894            | 0         | 1493                  | 13708     | 1876             | 0         | 1980               | 10340     | -1980            | 0         |
| 94         | 24          | 31949                | 11280     | 28399            | 0         | 1603                  | 14955     | 2072             | 0         | 1991               | 11280     | -1991            | 0         |
| 94         | 26          | 34471                | 12220     | 30905            | 0         | 1712                  | 16201     | 2268             | 0         | 2000               | 12220     | -2000            | 0         |
| 94         | 28          | 36993                | 13160     | 33413            | 0         | 1822                  | 17447     | 2465             | 0         | 2007               | 13160     | -2007            | 0         |
| 94         | 30          | 39513                | 14100     | 35921            | 0         | 1931                  | 18693     | 2662             | 0         | 2014               | 14100     | -2014            | 0         |
| 94         | 32          | 42033                | 15040     | 38430            | 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          | 14515                | 4800      | 11165            | 0         | 691                   | 6364      | 872              | 0         | 1670               | 4800      | -1670            | 0         |
| 96         | 12          | 17120                | 5760      | 13696            | 0         | 1107                  | 7636      | 769              | 0         | 2133               | 5760      | -2133            | 0         |
| 96         | 14          | 19715                | 6720      | 16236            | 0         | 1111                  | 8909      | 1078             | 0         | 2007               | 6720      | -2007            | 0         |
| 96         | 16          | 22305                | 7680      | 18783            | 0         | 1095                  | 10182     | 1406             | 0         | 1848               | 7680      | -1848            | 0         |
| 96         | 18          | 24890                | 8640      | 21334            | 0         | 1340                  | 11455     | 1475             | 0         | 2051               | 8640      | -2051            | 0         |
| 96         | 20          | 27471                | 9600      | 23888            | 0         | 1453                  | 12727     | 1674             | 0         | 2067               | 9600      | -2067            | 0         |
| 96         | 22          | 30051                | 10560     | 26445            | 0         | 1524                  | 14000     | 1916             | 0         | 2022               | 10560     | -2022            | 0         |
| 96         | 24          | 32628                | 11520     | 29003            | 0         | 1637                  | 15273     | 2116             | 0         | 2033               | 11520     | -2033            | 0         |
| 96         | 26          | 35205                | 12480     | 31563            | 0         | 1749                  | 16545     | 2317             | 0         | 2042               | 12480     | -2042            | 0         |
| 96         | 28          | 37780                | 13440     | 34124            | 0         | 1860                  | 17818     | 2518             | 0         | 2050               | 13440     | -2050            | 0         |
| 96         | 30          | 40354                | 14400     | 36685            | 0         | 1972                  | 19091     | 2719             | 0         | 2057               | 14400     | -2057            | 0         |
| 96         | 32          | 42927                | 15360     | 39248            | 0         | 2084                  | 20364     | 2920             | 0         | 2063               | 15360     | -2063            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 14817                | 4900      | 11398            | 0         | 706                   | 6496      | 890              | 0         | 1704               | 4900      | -1704            | 0         |
| 98         | 12          | 17477                | 5880      | 13981            | 0         | 1130                  | 7795      | 786              | 0         | 2178               | 5880      | -2178            | 0         |
| 98         | 14          | 20126                | 6860      | 16575            | 0         | 1134                  | 9095      | 1100             | 0         | 2049               | 6860      | -2049            | 0         |
| 98         | 16          | 22769                | 7840      | 19174            | 0         | 1118                  | 10394     | 1436             | 0         | 1886               | 7840      | -1886            | 0         |
| 98         | 18          | 25408                | 8820      | 21778            | 0         | 1368                  | 11693     | 1506             | 0         | 2094               | 8820      | -2094            | 0         |
| 98         | 20          | 28044                | 9800      | 24386            | 0         | 1483                  | 12992     | 1709             | 0         | 2110               | 9800      | -2110            | 0         |
| 98         | 22          | 30677                | 10780     | 26996            | 0         | 1556                  | 14292     | 1955             | 0         | 2064               | 10780     | -2064            | 0         |
| 98         | 24          | 33308                | 11760     | 29607            | 0         | 1671                  | 15591     | 2160             | 0         | 2075               | 11760     | -2075            | 0         |
| 98         | 26          | 35938                | 12740     | 32220            | 0         | 1785                  | 16890     | 2365             | 0         | 2085               | 12740     | -2085            | 0         |
| 98         | 28          | 38567                | 13720     | 34835            | 0         | 1899                  | 18189     | 2570             | 0         | 2093               | 13720     | -2093            | 0         |
| 98         | 30          | 41195                | 14700     | 37450            | 0         | 2013                  | 19489     | 2775             | 0         | 2100               | 14700     | -2100            | 0         |
| 98         | 32          | 43822                | 15680     | 40066            | 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          | 15119                | 5000      | 11630            | 0         | 720                   | 6629      | 909              | 0         | 1739               | 5000      | -1739            | 0         |
| 100        | 12          | 17833                | 6000      | 14267            | 0         | 1153                  | 7955      | 802              | 0         | 2222               | 6000      | -2222            | 0         |
| 100        | 14          | 20537                | 7000      | 16913            | 0         | 1157                  | 9280      | 1123             | 0         | 2091               | 7000      | -2091            | 0         |
| 100        | 16          | 23234                | 8000      | 19566            | 0         | 1141                  | 10606     | 1465             | 0         | 1925               | 8000      | -1925            | 0         |
| 100        | 18          | 25927                | 9000      | 22223            | 0         | 1396                  | 11932     | 1536             | 0         | 2137               | 9000      | -2137            | 0         |
| 100        | 20          | 28616                | 10000     | 24884            | 0         | 1514                  | 13258     | 1744             | 0         | 2153               | 10000     | -2153            | 0         |
| 100        | 22          | 31303                | 11000     | 27547            | 0         | 1588                  | 14583     | 1995             | 0         | 2106               | 11000     | -2106            | 0         |
| 100        | 24          | 33988                | 12000     | 30212            | 0         | 1705                  | 15909     | 2204             | 0         | 2118               | 12000     | -2118            | 0         |
| 100        | 26          | 36672                | 13000     | 32878            | 0         | 1822                  | 17235     | 2413             | 0         | 2127               | 13000     | -2127            | 0         |
| 100        | 28          | 39354                | 14000     | 35546            | 0         | 1938                  | 18561     | 2623             | 0         | 2136               | 14000     | -2136            | 0         |
| 100        | 30          | 42035                | 15000     | 38214            | 0         | 2054                  | 19886     | 2832             | 0         | 2143               | 15000     | -2143            | 0         |
| 100        | 32          | 44716                | 16000     | 40883            | 0         | 2170                  | 21212     | 3042             | 0         | 2149               | 16000     | -2149            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 15875                | 5250      | 12212            | 0         | 756                   | 6960      | 954              | 0         | 1826               | 5250      | -1826            | 0         |
| 105        | 12          | 18725                | 6300      | 14980            | 0         | 1211                  | 8352      | 842              | 0         | 2333               | 6300      | -2333            | 0         |
| 105        | 14          | 21564                | 7350      | 17758            | 0         | 1215                  | 9744      | 1179             | 0         | 2196               | 7350      | -2196            | 0         |
| 105        | 16          | 24396                | 8400      | 20544            | 0         | 1198                  | 11136     | 1538             | 0         | 2021               | 8400      | -2021            | 0         |
| 105        | 18          | 27223                | 9450      | 23334            | 0         | 1465                  | 12528     | 1613             | 0         | 2244               | 9450      | -2244            | 0         |
| 105        | 20          | 30047                | 10500     | 26128            | 0         | 1589                  | 13920     | 1831             | 0         | 2261               | 10500     | -2261            | 0         |
| 105        | 22          | 32868                | 11550     | 28924            | 0         | 1667                  | 15312     | 2095             | 0         | 2212               | 11550     | -2212            | 0         |
| 105        | 24          | 35687                | 12600     | 31722            | 0         | 1790                  | 16704     | 2314             | 0         | 2224               | 12600     | -2224            | 0         |
| 105        | 26          | 38505                | 13650     | 34522            | 0         | 1913                  | 18097     | 2534             | 0         | 2234               | 13650     | -2234            | 0         |
| 105        | 28          | 41322                | 14700     | 37323            | 0         | 2035                  | 19489     | 2754             | 0         | 2242               | 14700     | -2242            | 0         |
| 105        | 30          | 44137                | 15750     | 40125            | 0         | 2157                  | 20881     | 2974             | 0         | 2250               | 15750     | -2250            | 0         |
| 105        | 32          | 46952                | 16800     | 42927            | 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          | 16631                | 5500      | 12793            | 0         | 792                   | 7292      | 999              | 0         | 1913               | 5500      | -1913            | 0         |
| 110        | 12          | 19617                | 6600      | 15693            | 0         | 1268                  | 8750      | 882              | 0         | 2444               | 6600      | -2444            | 0         |
| 110        | 14          | 22591                | 7700      | 18604            | 0         | 1273                  | 10208     | 1235             | 0         | 2300               | 7700      | -2300            | 0         |
| 110        | 16          | 25558                | 8800      | 21522            | 0         | 1255                  | 11667     | 1611             | 0         | 2117               | 8800      | -2117            | 0         |
| 110        | 18          | 28519                | 9900      | 24445            | 0         | 1535                  | 13125     | 1690             | 0         | 2351               | 9900      | -2351            | 0         |
| 110        | 20          | 31478                | 11000     | 27372            | 0         | 1665                  | 14583     | 1918             | 0         | 2369               | 11000     | -2369            | 0         |
| 110        | 22          | 34433                | 12100     | 30301            | 0         | 1747                  | 16042     | 2195             | 0         | 2317               | 12100     | -2317            | 0         |
| 110        | 24          | 37387                | 13200     | 33233            | 0         | 1875                  | 17500     | 2425             | 0         | 2329               | 13200     | -2329            | 0         |
| 110        | 26          | 40339                | 14300     | 36166            | 0         | 2004                  | 18958     | 2655             | 0         | 2340               | 14300     | -2340            | 0         |
| 110        | 28          | 43289                | 15400     | 39100            | 0         | 2132                  | 20417     | 2885             | 0         | 2349               | 15400     | -2349            | 0         |
| 110        | 30          | 46239                | 16500     | 42035            | 0         | 2260                  | 21875     | 3115             | 0         | 2357               | 16500     | -2357            | 0         |
| 110        | 32          | 49188                | 17600     | 44972            | 0         | 2387                  | 23333     | 3346             | 0         | 2364               | 17600     | -2364            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 17387                | 5750      | 13375            | 0         | 828                   | 7623      | 1045             | 0         | 2000               | 5750      | -2000            | 0         |
| 115        | 12          | 20508                | 6900      | 16407            | 0         | 1326                  | 9148      | 922              | 0         | 2556               | 6900      | -2556            | 0         |
| 115        | 14          | 23618                | 8050      | 19450            | 0         | 1331                  | 10672     | 1291             | 0         | 2405               | 8050      | -2405            | 0         |
| 115        | 16          | 26719                | 9200      | 22500            | 0         | 1312                  | 12197     | 1685             | 0         | 2213               | 9200      | -2213            | 0         |
| 115        | 18          | 29816                | 10350     | 25556            | 0         | 1605                  | 13722     | 1767             | 0         | 2457               | 10350     | -2457            | 0         |
| 115        | 20          | 32909                | 11500     | 28616            | 0         | 1741                  | 15246     | 2006             | 0         | 2477               | 11500     | -2477            | 0         |
| 115        | 22          | 35998                | 12650     | 31679            | 0         | 1826                  | 16771     | 2295             | 0         | 2422               | 12650     | -2422            | 0         |
| 115        | 24          | 39086                | 13800     | 34743            | 0         | 1961                  | 18295     | 2535             | 0         | 2435               | 13800     | -2435            | 0         |
| 115        | 26          | 42172                | 14950     | 37810            | 0         | 2095                  | 19820     | 2775             | 0         | 2446               | 14950     | -2446            | 0         |
| 115        | 28          | 45257                | 16100     | 40877            | 0         | 2229                  | 21345     | 3016             | 0         | 2456               | 16100     | -2456            | 0         |
| 115        | 30          | 48341                | 17250     | 43946            | 0         | 2362                  | 22869     | 3257             | 0         | 2464               | 17250     | -2464            | 0         |
| 115        | 32          | 51424                | 18400     | 47016            | 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          | 18143                | 6000      | 13956            | 0         | 864                   | 7955      | 1090             | 0         | 2087               | 6000      | -2087            | 0         |
| 120        | 12          | 21400                | 7200      | 17120            | 0         | 1384                  | 9545      | 962              | 0         | 2667               | 7200      | -2667            | 0         |
| 120        | 14          | 24644                | 8400      | 20295            | 0         | 1389                  | 11136     | 1347             | 0         | 2509               | 8400      | -2509            | 0         |
| 120        | 16          | 27881                | 9600      | 23479            | 0         | 1369                  | 12727     | 1758             | 0         | 2309               | 9600      | -2309            | 0         |
| 120        | 18          | 31112                | 10800     | 26668            | 0         | 1675                  | 14318     | 1844             | 0         | 2564               | 10800     | -2564            | 0         |
| 120        | 20          | 34339                | 12000     | 29860            | 0         | 1816                  | 15909     | 2093             | 0         | 2584               | 12000     | -2584            | 0         |
| 120        | 22          | 37564                | 13200     | 33056            | 0         | 1906                  | 17500     | 2394             | 0         | 2528               | 13200     | -2528            | 0         |
| 120        | 24          | 40786                | 14400     | 36254            | 0         | 2046                  | 19091     | 2645             | 0         | 2541               | 14400     | -2541            | 0         |
| 120        | 26          | 44006                | 15600     | 39454            | 0         | 2186                  | 20682     | 2896             | 0         | 2553               | 15600     | -2553            | 0         |
| 120        | 28          | 47225                | 16800     | 42655            | 0         | 2326                  | 22273     | 3147             | 0         | 2563               | 16800     | -2563            | 0         |
| 120        | 30          | 50443                | 18000     | 45857            | 0         | 2465                  | 23864     | 3398             | 0         | 2571               | 18000     | -2571            | 0         |
| 120        | 32          | 53659                | 19200     | 49060            | 0         | 2605                  | 25454     | 3650             | 0         | 2579               | 19200     | -2579            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 18899                | 6250      | 14538            | 0         | 900                   | 8286      | 1136             | 0         | 2174               | 6250      | -2174            | 0         |
| 125        | 12          | 22292                | 7500      | 17833            | 0         | 1441                  | 9943      | 1002             | 0         | 2778               | 7500      | -2778            | 0         |
| 125        | 14          | 25671                | 8750      | 21141            | 0         | 1447                  | 11600     | 1404             | 0         | 2614               | 8750      | -2614            | 0         |
| 125        | 16          | 29043                | 10000     | 24457            | 0         | 1426                  | 13258     | 1831             | 0         | 2406               | 10000     | -2406            | 0         |
| 125        | 18          | 32408                | 11250     | 27779            | 0         | 1744                  | 14915     | 1920             | 0         | 2671               | 11250     | -2671            | 0         |
| 125        | 20          | 35770                | 12500     | 31104            | 0         | 1892                  | 16572     | 2180             | 0         | 2692               | 12500     | -2692            | 0         |
| 125        | 22          | 39129                | 13750     | 34433            | 0         | 1985                  | 18229     | 2494             | 0         | 2633               | 13750     | -2633            | 0         |
| 125        | 24          | 42485                | 15000     | 37764            | 0         | 2131                  | 19886     | 2755             | 0         | 2647               | 15000     | -2647            | 0         |
| 125        | 26          | 45839                | 16250     | 41097            | 0         | 2277                  | 21543     | 3017             | 0         | 2659               | 16250     | -2659            | 0         |
| 125        | 28          | 49192                | 17500     | 44432            | 0         | 2422                  | 23201     | 3278             | 0         | 2669               | 17500     | -2669            | 0         |
| 125        | 30          | 52544                | 18750     | 47768            | 0         | 2568                  | 24858     | 3540             | 0         | 2679               | 18750     | -2679            | 0         |
| 125        | 32          | 55895                | 20000     | 51104            | 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          | 19655                | 6500      | 15119            | 0         | 936                   | 8617      | 1181             | 0         | 2261               | 6500      | -2261            | 0         |
| 130        | 12          | 23183                | 7800      | 18547            | 0         | 1499                  | 10341     | 1042             | 0         | 2889               | 7800      | -2889            | 0         |
| 130        | 14          | 26698                | 9100      | 21987            | 0         | 1505                  | 12064     | 1460             | 0         | 2718               | 9100      | -2718            | 0         |
| 130        | 16          | 30204                | 10400     | 25435            | 0         | 1483                  | 13788     | 1904             | 0         | 2502               | 10400     | -2502            | 0         |
| 130        | 18          | 33705                | 11700     | 28890            | 0         | 1814                  | 15511     | 1997             | 0         | 2778               | 11700     | -2778            | 0         |
| 130        | 20          | 37201                | 13000     | 32349            | 0         | 1968                  | 17235     | 2267             | 0         | 2800               | 13000     | -2800            | 0         |
| 130        | 22          | 40694                | 14300     | 35811            | 0         | 2064                  | 18958     | 2594             | 0         | 2738               | 14300     | -2738            | 0         |
| 130        | 24          | 44184                | 15600     | 39275            | 0         | 2216                  | 20682     | 2865             | 0         | 2753               | 15600     | -2753            | 0         |
| 130        | 26          | 47673                | 16900     | 42741            | 0         | 2368                  | 22405     | 3137             | 0         | 2765               | 16900     | -2765            | 0         |
| 130        | 28          | 51160                | 18200     | 46209            | 0         | 2519                  | 24129     | 3409             | 0         | 2776               | 18200     | -2776            | 0         |
| 130        | 30          | 54646                | 19500     | 49678            | 0         | 2671                  | 25852     | 3682             | 0         | 2786               | 19500     | -2786            | 0         |
| 130        | 32          | 58131                | 20800     | 53148            | 0         | 2822                  | 27576     | 3954             | 0         | 2794               | 20800     | -2794            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 20411                | 6750      | 15701            | 0         | 972                   | 8949      | 1226             | 0         | 2348               | 6750      | -2348            | 0         |
| 135        | 12          | 24075                | 8100      | 19260            | 0         | 1557                  | 10739     | 1082             | 0         | 3000               | 8100      | -3000            | 0         |
| 135        | 14          | 27725                | 9450      | 22832            | 0         | 1563                  | 12528     | 1516             | 0         | 2823               | 9450      | -2823            | 0         |
| 135        | 16          | 31366                | 10800     | 26414            | 0         | 1541                  | 14318     | 1978             | 0         | 2598               | 10800     | -2598            | 0         |
| 135        | 18          | 35001                | 12150     | 30001            | 0         | 1884                  | 16108     | 2074             | 0         | 2885               | 12150     | -2885            | 0         |
| 135        | 20          | 38632                | 13500     | 33593            | 0         | 2043                  | 17898     | 2354             | 0         | 2907               | 13500     | -2907            | 0         |
| 135        | 22          | 42259                | 14850     | 37188            | 0         | 2144                  | 19687     | 2694             | 0         | 2844               | 14850     | -2844            | 0         |
| 135        | 24          | 45884                | 16200     | 40786            | 0         | 2302                  | 21477     | 2976             | 0         | 2859               | 16200     | -2859            | 0         |
| 135        | 26          | 49507                | 17550     | 44385            | 0         | 2459                  | 23267     | 3258             | 0         | 2872               | 17550     | -2872            | 0         |
| 135        | 28          | 53128                | 18900     | 47986            | 0         | 2616                  | 25057     | 3540             | 0         | 2883               | 18900     | -2883            | 0         |
| 135        | 30          | 56748                | 20250     | 51589            | 0         | 2773                  | 26847     | 3823             | 0         | 2893               | 20250     | -2893            | 0         |
| 135        | 32          | 60367                | 21600     | 55192            | 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          | 21167                | 7000      | 16283            | 0         | 1008                  | 9280      | 1272             | 0         | 2435               | 7000      | -2435            | 0         |
| 140        | 12          | 24967                | 8400      | 19973            | 0         | 1614                  | 11136     | 1122             | 0         | 3111               | 8400      | -3111            | 0         |
| 140        | 14          | 28752                | 9800      | 23678            | 0         | 1620                  | 12992     | 1572             | 0         | 2927               | 9800      | -2927            | 0         |
| 140        | 16          | 32528                | 11200     | 27392            | 0         | 1598                  | 14848     | 2051             | 0         | 2694               | 11200     | -2694            | 0         |
| 140        | 18          | 36297                | 12600     | 31112            | 0         | 1954                  | 16704     | 2151             | 0         | 2992               | 12600     | -2992            | 0         |
| 140        | 20          | 40063                | 14000     | 34837            | 0         | 2119                  | 18561     | 2442             | 0         | 3015               | 14000     | -3015            | 0         |
| 140        | 22          | 43824                | 15400     | 38565            | 0         | 2223                  | 20417     | 2793             | 0         | 2949               | 15400     | -2949            | 0         |
| 140        | 24          | 47583                | 16800     | 42296            | 0         | 2387                  | 22273     | 3086             | 0         | 2965               | 16800     | -2965            | 0         |
| 140        | 26          | 51340                | 18200     | 46029            | 0         | 2550                  | 24129     | 3379             | 0         | 2978               | 18200     | -2978            | 0         |
| 140        | 28          | 55096                | 19600     | 49764            | 0         | 2713                  | 25985     | 3672             | 0         | 2990               | 19600     | -2990            | 0         |
| 140        | 30          | 58850                | 21000     | 53500            | 0         | 2876                  | 27841     | 3965             | 0         | 3000               | 21000     | -3000            | 0         |
| 140        | 32          | 62603                | 22400     | 57237            | 0         | 3039                  | 29697     | 4258             | 0         | 3009               | 22400     | -3009            | 0         |

HIGHER POWER HYDRAULIC DOORS  
UNFACTORED DOOR JAMB REACTIONS - 160 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          | 21923                | 7250      | 16864            | 0         | 1044                  | 9612      | 1317             | 0         | 2522               | 7250      | -2522            | 0         |
| 145        | 12          | 25858                | 8700      | 20687            | 0         | 1672                  | 11534     | 1162             | 0         | 3222               | 8700      | -3222            | 0         |
| 145        | 14          | 29779                | 10150     | 24524            | 0         | 1678                  | 13456     | 1628             | 0         | 3032               | 10150     | -3032            | 0         |
| 145        | 16          | 33689                | 11600     | 28370            | 0         | 1655                  | 15379     | 2124             | 0         | 2791               | 11600     | -2791            | 0         |
| 145        | 18          | 37594                | 13050     | 32223            | 0         | 2024                  | 17301     | 2228             | 0         | 3099               | 13050     | -3099            | 0         |
| 145        | 20          | 41493                | 14500     | 36081            | 0         | 2195                  | 19223     | 2529             | 0         | 3123               | 14500     | -3123            | 0         |
| 145        | 22          | 45389                | 15950     | 39943            | 0         | 2303                  | 21146     | 2893             | 0         | 3054               | 15950     | -3054            | 0         |
| 145        | 24          | 49283                | 17400     | 43807            | 0         | 2472                  | 23068     | 3196             | 0         | 3071               | 17400     | -3071            | 0         |
| 145        | 26          | 53174                | 18850     | 47673            | 0         | 2641                  | 24990     | 3499             | 0         | 3085               | 18850     | -3085            | 0         |
| 145        | 28          | 57063                | 20300     | 51541            | 0         | 2810                  | 26913     | 3803             | 0         | 3097               | 20300     | -3097            | 0         |
| 145        | 30          | 60951                | 21750     | 55410            | 0         | 2979                  | 28835     | 4106             | 0         | 3107               | 21750     | -3107            | 0         |
| 145        | 32          | 64838                | 23200     | 59281            | 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          | 22679                | 7500      | 17446            | 0         | 1080                  | 9943      | 1363             | 0         | 2609               | 7500      | -2609            | 0         |
| 150        | 12          | 26750                | 9000      | 21400            | 0         | 1729                  | 11932     | 1202             | 0         | 3333               | 9000      | -3333            | 0         |
| 150        | 14          | 30805                | 10500     | 25369            | 0         | 1736                  | 13920     | 1684             | 0         | 3136               | 10500     | -3136            | 0         |
| 150        | 16          | 34851                | 12000     | 29348            | 0         | 1712                  | 15909     | 2197             | 0         | 2887               | 12000     | -2887            | 0         |
| 150        | 18          | 38890                | 13500     | 33334            | 0         | 2093                  | 17898     | 2304             | 0         | 3205               | 13500     | -3205            | 0         |
| 150        | 20          | 42924                | 15000     | 37325            | 0         | 2270                  | 19886     | 2616             | 0         | 3230               | 15000     | -3230            | 0         |
| 150        | 22          | 46954                | 16500     | 41320            | 0         | 2382                  | 21875     | 2993             | 0         | 3160               | 16500     | -3160            | 0         |
| 150        | 24          | 50982                | 18000     | 45317            | 0         | 2557                  | 23864     | 3306             | 0         | 3176               | 18000     | -3176            | 0         |
| 150        | 26          | 55007                | 19500     | 49317            | 0         | 2732                  | 25852     | 3620             | 0         | 3191               | 19500     | -3191            | 0         |
| 150        | 28          | 59031                | 21000     | 53318            | 0         | 2907                  | 27841     | 3934             | 0         | 3203               | 21000     | -3203            | 0         |
| 150        | 30          | 63053                | 22500     | 57321            | 0         | 3081                  | 29829     | 4248             | 0         | 3214               | 22500     | -3214            | 0         |
| 150        | 32          | 67074                | 24000     | 61325            | 0         | 3256                  | 31818     | 4562             | 0         | 3224               | 24000     | -3224            | 0         |