# NOTE:
- WHERE 16d SINKERS ARE REQUIRED, USE 10d X 2-1/2" NAILS
- WHERE 16d COMMON ARE REQUIRED, USE 16d X 2-1/2" NAILS

| Model No. | Total L | Ga | DF/SP Fasteners | DF/SP End Length | SPF/HF Fasteners | SPF/HF End Length | Allowable Tension Loads (160) |
|---|---|---|---|---|---|---|---|
| CMST12 | 40' | 12 | 74 - 16d | 33" | 84 - 16d | 38" | 9215 |
| | | | 86 - 10d | 39" | 98 - 10d | 44" | 9215 |
| CMST14 | 52½' | 14 | 56 - 16d | 26" | 66 - 16d | 30" | 6490 |
| | | | 66 - 10d | 30" | 76 - 10d | 34" | 6490 |
| CMSTC16 | 54' | 16 | 50 - 16d sinker | 20" | 58 - 16d sinker | 25" | 4585 |
| CS14 | 100' | 14 | 26 - 10d | 15" | 30 - 10d | 16" | 2490 |
| | | | 30 - 8d | 16" | 36 - 8d | 19" | 2490 |
| CS16 | 150' | 16 | 20-10d | 11" | 22 - 10d | 13" | 1705 |
| | | | 22 - 8d | 13" | 26 - 8d | 14" | 1705 |
| CS18 | 200' | 18 | 16 - 10d | 9" | 18 - 10d | 11" | 1370 |
| | | | 18 - 8d | 11" | 22 - 8d | 12" | 1370 |
| CS20 | 250' | 20 | 12 - 10d | 6" | 14 - 10d | 9" | 1030 |
| | | | 14 - 8d | 9" | 16 - 8d | 9" | 1030 |
| CS22 | 300' | 22 | 10 - 10d | 7" | 12 - 10d | 7" | 845 |
| | | | 12 - 8d | 7" | 14 - 8d | 8" | 845 |

| Model No. | Ga | Dimensions W | Dimensions L | Fasteners (Total) | Allowable Tension Loads (DF/SP) (160) | Allowable Tension Loads (SPF/HF) (160) |
|---|---|---|---|---|---|---|
| LSTA9 | 20 | 1¼ | 9 | 8-10d | 740 | 635 |
| LSTA12 | | 1¼ | 12 | 10-10d | 925 | 795 |
| LSTA15 | | 1¼ | 15 | 12-10d | 1110 | 950 |
| LSTA18 | | 1¼ | 18 | 14-10d | 1235 | 1110 |
| LSTA21 | | 1¼ | 21 | 16-10d | 1235 | 1235 |
| LSTA24 | | 1¼ | 24 | 18-10d | 1235 | 1235 |
| ST292 | | 2⅛ | 9⅝ | 12-16d | 1265 | 1120 |
| ST2122 | | 2⅛ | 12 13/16 | 16-16d | 1530 | 1505 |
| ST2115 | | ¾ | 16 5/16 | 10-16d | 660 | 660 |
| ST2215 | | 2⅛ | 16 5/16 | 20-16d | 1875 | 1875 |
| LSTA30 | 18 | 1¼ | 30 | 22-10d | 1640 | 1640 |
| LSTA36 | | 1¼ | 36 | 24-10d | 1640 | 1640 |
| LSTI49 | | 3⅜ | 49 | 32-10dx1½ | 2975 | 2555 |
| LSTI73 | | 3⅜ | 73 | 48-10dx1½ | 4205 | 3830 |
| MSTA9 | | 1¼ | 9 | 8-10d | 750 | 645 |
| MSTA12 | | 1¼ | 12 | 10-10d | 940 | 810 |
| MSTA15 | | 1¼ | 15 | 12-10d | 1130 | 970 |
| MSTA18 | | 1¼ | 18 | 14-10d | 1315 | 1130 |
| MSTA21 | | 1¼ | 21 | 16-10d | 1505 | 1290 |
| MSTA24 | | 1¼ | 24 | 18-10d | 1640 | 1455 |
| MSTA30 | 16 | 1¼ | 30 | 22-10d | 2050 | 1820 |
| MSTA36 | | 1¼ | 36 | 26-10d | 2050 | 2050 |
| MSTA49 | | 1¼ | 49 | 26-10d | 2020 | 2020 |
| ST6215 | | 2⅛ | 16⅝ | 20-16d | 2095 | 1900 |
| ST6224 | | 2⅛ | 23 9/16 | 28-16d | 2540 | 2540 |
| ST9 | | 1¼ | 9 | 8-16d | 885 | 760 |
| ST12 | | 1¼ | 11⅝ | 10-16d | 1105 | 950 |
| ST18 | | 1¼ | 17¾ | 14-16d | 1420 | 1330 |
| ST22 | | 1¼ | 21⅝ | 18-16d | 1420 | 1420 |
| MSTC28 | | 3 | 28¼ | 36-16d sinkers | 3455 | 2980 |
| MSTC40 | | 3 | 40¼ | 52-16d sinkers | 4745 | 4305 |
| MSTC52 | | 3 | 52¼ | 62-16d sinkers | 4745 | 4745 |
| HTP37Z | | 3 | 7 | 20-10dx1½ | 1850 | 1600 |
| MSTC66 | 14 | 3 | 65¾ | 76-16d sinkers | 5860 | 5860 |
| MSTC78 | | 3 | 77¾ | 76-16d sinkers | 5860 | 5860 |
| ST6236 | | 2⅛ | 33 9/16 | 40-16d | 3845 | 3845 |
| HRS6 | 12 | 1⅜ | 6 | 6-10d | 605 | 525 |
| HRS8 | | 1⅜ | 8 | 10-10d | 1010 | 880 |
| HRS12 | | 1⅜ | 12 | 14-10d | 1415 | 1230 |
| MSTI26 | | 2⅛ | 26 | 26-10dx1½ | 2745 | 2325 |
| MSTI36 | | 2⅛ | 36 | 36-10dx1½ | 3800 | 3220 |
| MSTI48 | | 2⅛ | 48 | 48-10dx1½ | 5065 | 4290 |
| MSTI60 | | 2⅛ | 60 | 60-10dx1½ | 5080 | 5080 |
| MSTI72 | | 2⅛ | 72 | 72-10dx1½ | 5080 | 5080 |
| HRS416Z | | 3¼ | 16 | 16-SDS ¼"x1½" | 2835 | 2305 |

| Actual Joist Size | Model No.[3] | Ga | Dimensions W | Dimensions H | Dimensions B | Min/Max[2] | Fasteners[5] Face | Fasteners[5] Joist | Allowable Loads[4] DF/SP Species Header Uplift (160) | DF/SP Floor (100) | DF/SP Snow (115) | DF/SP Roof (125) | SPF/HF Species Header Floor (100) | SPF/HF Snow (115) | SPF/HF Roof (125) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1¾ x 5½ | HU1.81/5 | 14 | 1 3/16 | 5⅜ | 2½ | Min | 12-16d | 4-10dx1½ | 610 | 1785 | 2015 | 2165 | 1540 | 1735 | 1865 |
| | | | 1 3/16 | 5⅜ | 2½ | Max | 16-16d | 6-10dx1½ | 915 | 2380 | 2685 | 2890 | 2050 | 2315 | 2490 |
| 1¾ x 7¼ | HU7 | 14 | 1 3/16 | 6 1/16 | 2½ | Min | 12-16d | 4-10dx1½ | 610 | 1785 | 2015 | 2165 | 1540 | 1735 | 1865 |
| | | | 1 3/16 | 6 1/16 | 2½ | Max | 16-16d | 8-10dx1½ | 1515 | 2380 | 2685 | 2890 | 2050 | 2315 | 2490 |
| 1¾ x 9½ | HUS1.81/10 | 16 | 1 3/16 | 8⅜ | 3 | — | 30-16d | 10-16d | 3000 | 5135 | 5295 | 5400 | 4705 | 5105 | 5195 |
| | HU9 | 14 | 1 3/16 | 9 9/16 | 2½ | Min | 18-16d | 6-10dx1½ | 915 | 2680 | 3020 | 3250 | 2305 | 2605 | 2800 |
| | | | 1 3/16 | 9 9/16 | 2½ | Max | 24-16d | 10-10dx1½ | 1895 | 3570 | 4030 | 4335 | 3075 | 3470 | 3735 |
| | HUCQ1.81/9-SDS | | 1 3/16 | 9 | 3 | — | 8-SDS ¼"x1¾" | 4-SDS ¼"x1½" | 1505 | 2000 | 2300 | 2500 | 1440 | 1655 | 1800 |
| 1¾ x 11¼ - 11⅞ | HUS1.81/10 | 16 | 1 3/16 | 8⅜ | 3 | — | 30-16d | 10-16d | 3000 | 5135 | 5295 | 5400 | 4705 | 5105 | 5195 |
| | HU11 | 14 | 1 3/16 | 11 1/16 | 2½ | Min | 22-16d | 6-10dx1½ | 915 | 3275 | 3695 | 3970 | 2820 | 3180 | 3425 |
| | | | 1 3/16 | 11 1/16 | 2½ | Max | 30-16d | 10-10dx1½ | 1895 | 4465 | 4705 | 4810 | 3845 | 4340 | 4600 |
| | HUCQ1.81/11-SDS | | 1 3/16 | 11 | 3 | — | 10-SDS ¼"x1¾" | 4-SDS ¼"x1½" | 1505 | 2500 | 2375 | 3125 | 1800 | 2070 | 2250 |
| 1¾ x 14 | HUS1.81/10 | 16 | 1 3/16 | 8⅜ | 3 | — | 30-16d | 10-16d | 3000 | 5135 | 5295 | 5400 | 4705 | 5105 | 5195 |
| | U14 | | 1 3/16 | 10¼ | 2 | — | 14-16d | 6-10dx1½ | 1110 | 2015 | 2285 | 2465 | 1735 | 1965 | 2120 |
| | HU14 | 14 | 1 3/16 | 13 1/16 | 2½ | Min | 28-16d | 8-10dx1½ | 1515 | 4165 | 4420 | 4505 | 3590 | 4050 | 4335 |
| | | | 1 3/16 | 13 1/16 | 2½ | Max | 36-16d | 14-10dx1½ | 2015 | 5055 | 5275 | 5420 | 4615 | 5000 | 5130 |
| | HUCQ1.81/11-SDS | | 1 3/16 | 11 | 3 | — | 10-SDS ¼"x1¾" | 4-SDS ¼"x1½" | 1505 | 2500 | 2375 | 3125 | 1800 | 2070 | 2250 |
| 3½ x 7¼ | HU48/HUC48 | 14 | 3⅜ | 6 9/16 | 2½ | Min | 10-16d | 4-10d | 780 | 1490 | 1680 | 1805 | 1280 | 1445 | 1555 |
| | | | 3⅜ | 6 9/16 | 2½ | Max | 14-16d | 6-10d | 1135 | 2085 | 2350 | 2530 | 1795 | 2025 | 2180 |
| | HUS48/HUSC48 | | 3⅜ | 6 9/16 | 2 | — | 6-16d | 6-16d | 1550 | 1595 | 1315 | 1960 | 1365 | 1555 | 1680 |
| | HGUS46 | 12 | 3⅜ | 4⅞ | 4 | — | 20-16d | 8-16d | 2155 | 4360 | 4385 | 5230 | 3750 | 4200 | 4500 |
| | HHUS48 | 14 | 3⅜ | 7⅛ | 3 | — | 22-16d | 8-16d | 2000 | 4210 | 4770 | 5140 | 3615 | 4095 | 4415 |
| | HGUS48 | 12 | 3⅜ | 7⅞ | 4 | — | 36-16d | 12-16d | 3235 | 7460 | 7460 | 7460 | 6415 | 6415 | 6415 |
| 3½ x 9¼ - 9½ | U410 | 16 | 3⅜ | 8⅜ | 2 | — | 14-16d | 6-10d | 1110 | 2015 | 2285 | 2465 | 1735 | 1965 | 2120 |
| | HUS410/HUSC410 | 14 | 3⅜ | 8 9/16 | 2 | — | 8-16d | 8-16d | 2690 | 2125 | 2420 | 2615 | 1820 | 2070 | 2240 |
| | HU410/HUC410 | | 3⅜ | 8⅜ | 2½ | Min | 14-16d | 6-10d | 1135 | 2085 | 2350 | 2530 | 1795 | 2025 | 2180 |
| | | | 3⅜ | 8⅜ | 2½ | Max | 18-16d | 10-10d | 1895 | 2680 | 3020 | 3250 | 2305 | 2605 | 2800 |
| | HHUS410 | | 3⅜ | 9 | 3 | — | 30-16d | 10-16d | 3735 | 5635 | 6380 | 6880 | 4835 | 5480 | 5910 |
| | HUCQ410-SDS | | 3⅜ | 9 | 3 | — | 12-SDS ¼"x2½" | 6-SDS ¼"x2½" | 2510 | 4680 | 4955 | 4955 | 3370 | 3570 | 3570 |
| | HGUS48 | 12 | 3⅜ | 7⅞ | 4 | — | 36-16d | 12-16d | 3235 | 7460 | 7460 | 7460 | 6415 | 6415 | 6415 |
| | HGUS410 | | 3⅜ | 9⅞ | 4 | — | 46-16d | 16-16d | 4095 | 9100 | 9100 | 9100 | 7825 | 7825 | 7825 |
| 3½ x 11¼ - 11⅞ | U410 | 16 | 3⅜ | 8⅜ | 2 | — | 14-16d | 6-10d | 1110 | 2015 | 2285 | 2465 | 1735 | 1965 | 2120 |
| | HUS412/HUSC412 | 14 | 3⅜ | 10½ | 2 | — | 10-16d | 10-16d | 3635 | 2660 | 3025 | 3265 | 2275 | 2590 | 2795 |
| | HU412/HUC412 | | 3⅜ | 10⅝ | 2½ | Min | 16-16d | 6-10d | 1135 | 2380 | 2685 | 2890 | 2050 | 2315 | 2490 |
| | | | 3⅜ | 10⅝ | 2½ | Max | 22-16d | 10-10d | 1895 | 3275 | 3695 | 3970 | 2820 | 3180 | 3425 |
| | HHUS410 | | 3⅜ | 9 | 3 | — | 30-16d | 10-16d | 3735 | 5635 | 6380 | 6880 | 4835 | 5480 | 5910 |
| | HUCQ412-SDS | | 3⅜ | 11 | 3 | — | 14-SDS ¼"x2½" | 6-SDS ¼"x2½" | 2510 | 5460 | 5560 | 5560 | 3930 | 4000 | 4000 |
| | HGUS48 | 12 | 3⅜ | 7⅞ | 4 | — | 36-16d | 12-16d | 3235 | 7460 | 7460 | 7460 | 6415 | 6415 | 6415 |
| | HGUS410 | | 3⅜ | 9⅞ | 4 | — | 46-16d | 16-16d | 4095 | 9100 | 9100 | 9100 | 7825 | 7825 | 7825 |
| | HGUS412 | | 3⅜ | 10⅞ | 4 | — | 56-16d | 20-16d | 5045 | 9600 | 9600 | 9600 | 8255 | 8255 | 8255 |
| 3½ x 14 | U414 | 16 | 3⅜ | 10 | 2 | — | 16-16d | 6-10d | 1110 | 2305 | 2515 | 2820 | 1980 | 2245 | 2425 |
| | HUS412/HUSC412 | 14 | 3⅜ | 10½ | 2 | — | 10-16d | 10-16d | 3635 | 2660 | 3025 | 3265 | 2275 | 2590 | 2795 |
| | HU416/HUC416 | | 3⅜ | 13⅜ | 2½ | Min | 20-16d | 8-10d | 1515 | 2975 | 3360 | 3610 | 2565 | 2895 | 3110 |
| | | | 3⅜ | 13⅜ | 2½ | Max | 26-16d | 12-10d | 2015 | 3870 | 4365 | 4695 | 3330 | 3760 | 4045 |
| | HHUS410 | | 3⅜ | 9 | 3 | — | 30-16d | 10-16d | 3735 | 5635 | 6380 | 6880 | 4835 | 5480 | 5910 |
| | HGUS410 | | 3⅜ | 9⅞ | 4 | — | 46-16d | 16-16d | 4095 | 9100 | 9100 | 9100 | 7825 | 7825 | 7825 |
| | HGUS412 | 12 | 3⅜ | 10⅞ | 4 | — | 56-16d | 20-16d | 5045 | 9600 | 9600 | 9600 | 8255 | 8255 | 8255 |
| | HGUS414 | | 3⅜ | 12⅞ | 4 | — | 66-16d | 22-16d | 5515 | 10100 | 10100 | 10100 | 8685 | 8685 | 8685 |
| | HUCQ412-SDS | 14 | 3⅜ | 11 | 3 | — | 14-SDS ¼"x2½" | 6-SDS ¼"x2½" | 2510 | 5460 | 5560 | 5560 | 3930 | 4000 | 4000 |
| 3½ x 16 | HU416/HUC416 | 14 | 3⅜ | 13⅜ | 2½ | Min | 20-16d | 8-10d | 1515 | 2975 | 3360 | 3610 | 2565 | 2895 | 3110 |
| | | | 3⅜ | 13⅜ | 2½ | Max | 26-16d | 12-10d | 2015 | 3870 | 4365 | 4695 | 3330 | 3760 | 4045 |
| | HGUS412 | 12 | 3⅜ | 10⅞ | 4 | — | 56-16d | 20-16d | 5045 | 9600 | 9600 | 9600 | 8255 | 8255 | 8255 |
| | HGUS414 | | 3⅜ | 12⅞ | 4 | — | 66-16d | 22-16d | 5515 | 10100 | 10100 | 10100 | 8685 | 8685 | 8685 |
| | HUCQ412-SDS | 14 | 3⅜ | 11 | 3 | — | 14-SDS ¼"x2½" | 6-SDS ¼"x2½" | 2510 | 5460 | 5560 | 5560 | 3930 | 4000 | 4000 |

| Model No. | L | Fasteners (Total) | Allowable Loads (160) |
|---|---|---|---|
| TS9 | 9 | 8-16d | 530 |
| TS12 | 11⅝ | 10-16d | 665 |
| TS18 | 17¾ | 14-16d | 930 |
| TS22 | 21⅝ | 18-16d | 1215 |

**WIND AND SDC A & B – ALLOWABLE TENSION LOADS FOR DF/SP/SPF/HF (160)**

| Min. Stem Wall (in) | Model No. Standard | Model No. Rim Joist | Strap Length (L) Standard (in.) | Strap Length (L) Rim Joist (in.) | $l_e$ (in.) | Required Nails | Non-Cracked Midwall | Non-Cracked Corner | Non-Cracked Endwall | Cracked Midwall | Cracked Corner | Cracked Endwall |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | LSTHD8 | LSTHD8RJ | 18⅛ | 32⅛ | 8 | 20 -16d Sinkers | 3115 | 2700 | 1690 | 2675 | 2320 | 1455 |
| | STHD10 | STHD10RJ | 24⅛ | 38⅛ | 10 | 24 -16d Sinkers | 3820 | 3820 | 2050 | 3140 | 3140 | 1705 |
| | STHD14 | STHD14RJ | 26⅛ | 39⅝ | 14 | 30 -16d Sinkers | 5150 | 5150 | 3200 | 5150 | 5150 | 3200 |
| 8 | LSTHD8 | LSTHD8RJ | 18⅛ | 32⅛ | 8 | 20 -16d Sinkers | 3115 | 2700 | 2230 | 2675 | 2320 | 1915 |
| | STHD10 | STHD10RJ | 24⅛ | 38⅛ | 10 | 28 -16d Sinkers | 4755 | 4120 | 3145 | 4195 | 3500 | 2585 |
| | STHD14 | STHD14RJ | 26⅛ | 39⅝ | 14 | 30 -16d Sinkers | 5345 | 5345 | 4210 | 5345 | 5345 | 4210 |

**SDC C-F – ALLOWABLE TENSION LOADS FOR DF/SP/SPF/HF (160)**

| Min. Stem Wall (in) | Model No. Standard | Model No. Rim Joist | Strap Length (L) Standard (in.) | Strap Length (L) Rim Joist (in.) | $l_e$ (in.) | Required Nails | Non-Cracked Midwall | Non-Cracked Corner | Non-Cracked Endwall | Cracked Midwall | Cracked Corner | Cracked Endwall |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | LSTHD8 | LSTHD8RJ | 18⅛ | 32⅛ | 8 | 16 -16d Sinkers | 2270 | 2090 | 1220 | 2250 | 1950 | 1220 |
| | STHD10 | STHD10RJ | 24⅛ | 38⅛ | 10 | 18 -16d Sinkers | 2750 | 2750 | 1615 | 2640 | 2640 | 1435 |
| | STHD14 | STHD14RJ | 26⅛ | 39⅝ | 14 | 22 -16d Sinkers | 3695 | 3695 | 2685 | 3695 | 3695 | 2685 |
| 8 | LSTHD8 | LSTHD8RJ | 18⅛ | 32⅛ | 8 | 16 -16d Sinkers | 2615 | 2125 | 1635 | 2250 | 1950 | 1610 |
| | STHD10 | STHD10RJ | 24⅛ | 38⅛ | 10 | 20 -16d Sinkers | 3400 | 2940 | 2295 | 3400 | 2940 | 2175 |
| | STHD14 | STHD14RJ | 26⅛ | 39⅝ | 14 | 24 -16d Sinkers | 3815 | 3815 | 3500 | 3815 | 3815 | 3500 |

Builder to check appropriate box, sign, date, and return to NEH. Plans not checked, signed, and dated will be returned to Builder and subject to removal from Production Scheduling.

**PERMIT PLANS**

I HAVE REVIEWED THESE PLANS FOR ACCURACY AND HEREBY AUTHORIZE N.E.H. TO DO THE FOLLOWING;

- ☐ THERE ARE NO CHANGES TO THIS PLAN, RELEASE THE JOB FOR PRODUCTION.
- ☐ REVISE THE PLANS AS NOTED AND RELEASE THESE PLANS FOR PRODUCTION.
- ☐ REVISE THESE PLANS AS NOTED AND SEND ME ANOTHER SET OF PERMIT PLANS TO REVIEW.

Signature: Date:

NEW ENGLAND HOMES INDEPENDENT BUILDERS DULY AUTHORIZED AGENT PER CONTRACT AGREEMENT

NOTE: ANY & ALL Material shipped loose for the site completion of the manufactured product is ULTIMATELY the SOLE RESPONSIBILITY OF THE BUILDER LISTED BELOW to install and stain.


New England Homes

277 Locust Street, Suite B
Dover, NH 03820
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(telephone)800.800.8631
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CMH, INC

Structure Desc: COLONIAL

N.T.S.

SECTION DETAILS

Drawn: 9/10/17 JMB

Revisions

| | | |
|---|---|---|
| 8/24/17 | RTA | |
| 4/3/17 | RTA | |
| 4/4/17 | RTA | |
| 6/8/17 | RTA | |
| 6/9/17 | RTA | |
| 7/25/17 | RTA | |

Builder:

Scale:

11256

Revisions: 1

Sheet: A-405