



BH-36 4" Slab Depth, 145 pcf NWC

| Maximum Unshored Span | Gage | Single | Double | Triple |
|-----------------------|---------|---------|----------|---------|
| | 22 | 6' - 3" | 6' - 8" | 7' - 5" |
| 20 | 7' - 6" | 8' - 2" | 8' - 10" | |

| Gage | Single | Double | Triple |
|------|---------|----------|----------|
| 18 | 8' - 6" | 10' - 1" | 10' - 8" |
| 16 | 9' - 2" | 11' - 4" | 11' - 4" |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" | |
|------|---|---|---------------------|-------|-------|--|-------|-------|-------------------------------------|-------|---------------------------------|--------|--------|--------|--------|--------|------|
| 22 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | | |
| | | ASD, W/Ω | 785 | 643 | 536 | 453 | 386 | 333 | 289 | 253 | 222 | 197 | 175 | 156 | 138 | 121 | 107 |
| | | LRFD, φW | 1060 | 868 | 722 | 609 | 518 | 446 | 386 | 337 | 295 | 261 | 231 | 205 | 183 | 163 | 146 |
| | | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | 138 | 121 | 107 |
| | | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | | Arc Spot Weld 1/2" Effective Dia | 3124 | 3061 | 3008 | 2979 | 2939 | 2905 | 2875 | 2848 | 2825 | 2815 | 2795 | 2777 | 2761 | 2747 | 2733 |
| | | PAF Base Steel ≥ .25" | 2809 | 2774 | 2745 | 2736 | 2714 | 2695 | 2678 | 2663 | 2649 | 2649 | 2637 | 2627 | 2618 | 2609 | 2602 |
| | | PAF Base Steel ≥ 0.125" | 2784 | 2752 | 2724 | 2717 | 2696 | 2678 | 2662 | 2648 | 2636 | 2636 | 2625 | 2615 | 2607 | 2599 | 2591 |
| | | #12 Screw Base Steel ≥ .0385" | 2762 | 2731 | 2705 | 2700 | 2680 | 2663 | 2648 | 2635 | 2623 | 2624 | 2614 | 2605 | 2596 | 2589 | 2582 |
| | | Concrete + Deck = | 38.2 | psf | | | | | | | | | | | | | |
| | (I _{cr} +I _u)/Z = | 39.4242 | in ⁴ /ft | | | I _{cr} = 25.4 in ⁴ /ft | | ASD | M _{no} /Ω = 27.1 kip-in/ft | | V _n /Ω = 2.26 kip/ft | | | | | | |
| | | | | | | I _u = 53.4 in ⁴ /ft | | LRFD | φM _{no} = 41.5 kip-in/ft | | φV _n = 3.40 kip/ft | | | | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" | |
|------|---|---|---------------------|-------|-------|--|-------|-------|-------------------------------------|-------|---------------------------------|--------|--------|--------|--------|--------|------|
| 20 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | | |
| | | ASD, W/Ω | 906 | 758 | 632 | 534 | 457 | 394 | 343 | 300 | 265 | 229 | 196 | 170 | 148 | 129 | 114 |
| | | LRFD, φW | 1248 | 1024 | 853 | 720 | 614 | 529 | 459 | 402 | 353 | 312 | 277 | 247 | 221 | 198 | 179 |
| | | L/360 | - | - | - | - | - | - | - | - | - | 229 | 196 | 170 | 148 | 129 | 114 |
| | | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | | Arc Spot Weld 1/2" Effective Dia | 3273 | 3195 | 3130 | 3099 | 3050 | 3008 | 2971 | 2939 | 2910 | 2900 | 2876 | 2854 | 2834 | 2816 | 2799 |
| | | PAF Base Steel ≥ .25" | 2888 | 2845 | 2810 | 2803 | 2776 | 2752 | 2731 | 2712 | 2696 | 2698 | 2684 | 2671 | 2659 | 2649 | 2639 |
| | | PAF Base Steel ≥ 0.125" | 2859 | 2819 | 2785 | 2781 | 2755 | 2732 | 2713 | 2695 | 2680 | 2682 | 2669 | 2657 | 2646 | 2636 | 2627 |
| | | #12 Screw Base Steel ≥ .0385" | 2834 | 2796 | 2765 | 2762 | 2737 | 2716 | 2697 | 2681 | 2666 | 2669 | 2657 | 2645 | 2635 | 2625 | 2617 |
| | | Concrete + Deck = | 38.5 | psf | | | | | | | | | | | | | |
| | (I _{cr} +I _u)/Z = | 41.99854 | in ⁴ /ft | | | I _{cr} = 28.8 in ⁴ /ft | | ASD | M _{no} /Ω = 31.7 kip-in/ft | | V _n /Ω = 2.26 kip/ft | | | | | | |
| | | | | | | I _u = 55.2 in ⁴ /ft | | LRFD | φM _{no} = 48.5 kip-in/ft | | φV _n = 3.40 kip/ft | | | | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" | |
|------|---|---|---------------------|-------|-------|--|-------|-------|-------------------------------------|-------|---------------------------------|--------|--------|--------|--------|--------|------|
| 18 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | | |
| | | ASD, W/Ω | 906 | 823 | 755 | 681 | 583 | 504 | 424 | 353 | 298 | 253 | 217 | 187 | 163 | 143 | 126 |
| | | LRFD, φW | 1358 | 1235 | 1087 | 919 | 786 | 679 | 591 | 518 | 457 | 405 | 361 | 323 | 290 | 262 | 237 |
| | | L/360 | - | - | - | - | - | - | 424 | 353 | 298 | 253 | 217 | 187 | 163 | 143 | 126 |
| | | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | | Arc Spot Weld 1/2" Effective Dia | 3581 | 3474 | 3385 | 3352 | 3284 | 3226 | 3174 | 3129 | 3089 | 3082 | 3048 | 3017 | 2990 | 2964 | 2941 |
| | | PAF Base Steel ≥ .25" | 3053 | 2995 | 2945 | 2946 | 2907 | 2874 | 2845 | 2819 | 2796 | 2804 | 2784 | 2766 | 2750 | 2735 | 2721 |
| | | PAF Base Steel ≥ 0.125" | 3015 | 2960 | 2913 | 2916 | 2880 | 2848 | 2821 | 2796 | 2774 | 2784 | 2765 | 2748 | 2732 | 2718 | 2705 |
| | | #12 Screw Base Steel ≥ .0385" | 2988 | 2935 | 2891 | 2896 | 2861 | 2831 | 2804 | 2780 | 2760 | 2770 | 2752 | 2735 | 2720 | 2706 | 2694 |
| | | Concrete + Deck = | 39.2 | psf | | | | | | | | | | | | | |
| | (I _{cr} +I _u)/Z = | 46.40122 | in ⁴ /ft | | | I _{cr} = 34.6 in ⁴ /ft | | ASD | M _{no} /Ω = 40.0 kip-in/ft | | V _n /Ω = 2.26 kip/ft | | | | | | |
| | | | | | | I _u = 58.2 in ⁴ /ft | | LRFD | φM _{no} = 61.3 kip-in/ft | | φV _n = 3.40 kip/ft | | | | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" | |
|------|---|---|---------------------|-------|-------|--|-------|-------|-------------------------------------|-------|---------------------------------|--------|--------|--------|--------|--------|------|
| 16 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | | |
| | | ASD, W/Ω | 906 | 823 | 755 | 697 | 647 | 559 | 461 | 384 | 323 | 275 | 236 | 204 | 177 | 155 | 136 |
| | | LRFD, φW | 1358 | 1235 | 1132 | 1045 | 952 | 823 | 717 | 630 | 557 | 495 | 442 | 396 | 357 | 323 | 292 |
| | | L/360 | - | - | - | - | - | 559 | 461 | 384 | 323 | 275 | 236 | 204 | 177 | 155 | 136 |
| | | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | | Arc Spot Weld 1/2" Effective Dia | 3910 | 3772 | 3657 | 3626 | 3538 | 3461 | 3395 | 3336 | 3283 | 3282 | 3237 | 3197 | 3161 | 3127 | 3097 |
| | | PAF Base Steel ≥ .25" | 3230 | 3154 | 3091 | 3103 | 3053 | 3009 | 2970 | 2936 | 2906 | 2924 | 2898 | 2874 | 2852 | 2832 | 2814 |
| | | PAF Base Steel ≥ 0.125" | 3157 | 3087 | 3029 | 3046 | 3000 | 2959 | 2924 | 2893 | 2865 | 2885 | 2861 | 2839 | 2818 | 2800 | 2783 |
| | | #12 Screw Base Steel ≥ .0385" | 3169 | 3100 | 3042 | 3059 | 3012 | 2972 | 2936 | 2905 | 2877 | 2898 | 2873 | 2851 | 2830 | 2812 | 2795 |
| | | Concrete + Deck = | 39.9 | psf | | | | | | | | | | | | | |
| | (I _{cr} +I _u)/Z = | 50.43284 | in ⁴ /ft | | | I _{cr} = 39.8 in ⁴ /ft | | ASD | M _{no} /Ω = 48.0 kip-in/ft | | V _n /Ω = 2.26 kip/ft | | | | | | |
| | | | | | | I _u = 61.1 in ⁴ /ft | | LRFD | φM _{no} = 73.5 kip-in/ft | | φV _n = 3.40 kip/ft | | | | | | |

| All Gages | LRFD - Available Diaphragm Shear Capacity, φS _n (plf / ft) for all vertical load spans, WWF Size or Area of Steel per foot width | | | | | |
|-----------|---|--|--|--|--|--|
| | 3/4" Welded Shear Studs | 6x6 W1.4xW1.4 | 6x6 W2.9xW2.9 | 6x6 W4.0xW4.0 | 4x4 W4xW4 | 4x4 W6xW6 |
| | | A _s = 0.028 in ² /ft | A _s = 0.058 in ² /ft | A _s = 0.080 in ² /ft | A _s = 0.120 in ² /ft | A _s = 0.180 in ² /ft |
| | | | | | | |
| | 6 in o.c. | 3700 | 5050 | 6040 | 7840 | 10540 |
| | 12 in o.c. | 3700 | 5050 | 6040 | 7840 | 10540 |
| | 18 in o.c. | 3700 | 5050 | 6040 | 7840 | 8790 |

5" Total Slab Depth

Normal Weight Concrete (145 pcf)

Concrete Volume 1.239yd³/100ft²

1 Hour Fire Rating



BH-36 5" Slab Depth, 145 pcf NWC

| Maximum Unshored Span | Gage | Single | Double | Triple | | Gage | Single | Double | Triple |
|-----------------------|----------|---------|---------|----------|---------|----------|----------|---------|---------|
| | 22 | 5' - 9" | 6' - 3" | 6' - 10" | | 18 | 7' - 10" | 9' - 3" | 9' - 9" |
| 20 | 6' - 10" | 7' - 7" | 8' - 1" | 16 | 8' - 5" | 10' - 5" | 10' - 6" | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" |
|--|---|---------------------|-------|------------------------|------------------------|---------------------|---------------------|-------|-------------------------|---------------------------|-----------|-----------|------------------------|--------------------------|--------|--------|
| 22 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | |
| | ASD, W/Ω | 1136 | 933 | 778 | 657 | 561 | 484 | 421 | 369 | 325 | 288 | 256 | 229 | 205 | 184 | 166 |
| | LRFD, φW | 1536 | 1259 | 1048 | 884 | 754 | 649 | 563 | 492 | 432 | 382 | 339 | 302 | 270 | 241 | 217 |
| | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | Arc Spot Weld 1/2" Effective Dia | 4105 | 4042 | 3988 | 3960 | 3920 | 3886 | 3856 | 3829 | 3805 | 3796 | 3776 | 3758 | 3742 | 3727 | 3714 |
| | PAF Base Steel ≥ .25" | 3790 | 3755 | 3725 | 3717 | 3695 | 3675 | 3658 | 3643 | 3630 | 3629 | 3618 | 3608 | 3599 | 3590 | 3582 |
| | PAF Base Steel ≥ 0.125" | 3765 | 3732 | 3705 | 3698 | 3677 | 3659 | 3643 | 3629 | 3616 | 3617 | 3606 | 3596 | 3588 | 3580 | 3572 |
| | #12 Screw Base Steel ≥ .0385" | 3743 | 3712 | 3686 | 3681 | 3661 | 3644 | 3629 | 3616 | 3604 | 3605 | 3595 | 3586 | 3577 | 3570 | 3563 |
| | Concrete + Deck = | 50.3 | psf | | I _{cr} = 46.8 | | in ⁴ /ft | | ASD | M _{no} /Ω = 39.1 | | kip-in/ft | | V _n /Ω = 3.06 | | kip/ft |
| (I _{cr} +I _u)/2 = | 76.3135 | in ⁴ /ft | | I _u = 105.8 | | in ⁴ /ft | | LRFD | φM _{no} = 59.9 | | kip-in/ft | | φV _n = 4.59 | | kip/ft | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" |
|--|---|---------------------|-------|------------------------|------------------------|---------------------|---------------------|-------|-------------------------|---------------------------|-----------|-----------|------------------------|--------------------------|--------|--------|
| 20 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | |
| | ASD, W/Ω | 1223 | 1102 | 920 | 778 | 666 | 575 | 501 | 439 | 388 | 344 | 307 | 275 | 247 | 223 | 201 |
| | LRFD, φW | 1815 | 1489 | 1242 | 1049 | 896 | 773 | 672 | 588 | 518 | 459 | 408 | 365 | 327 | 294 | 265 |
| | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | Arc Spot Weld 1/2" Effective Dia | 4254 | 4176 | 4111 | 4080 | 4031 | 3989 | 3952 | 3920 | 3891 | 3881 | 3857 | 3835 | 3815 | 3797 | 3780 |
| | PAF Base Steel ≥ .25" | 3869 | 3826 | 3791 | 3784 | 3757 | 3733 | 3712 | 3693 | 3677 | 3678 | 3664 | 3652 | 3640 | 3630 | 3620 |
| | PAF Base Steel ≥ 0.125" | 3840 | 3800 | 3766 | 3762 | 3736 | 3713 | 3693 | 3676 | 3661 | 3663 | 3650 | 3638 | 3627 | 3617 | 3608 |
| | #12 Screw Base Steel ≥ .0385" | 3815 | 3777 | 3746 | 3743 | 3718 | 3697 | 3678 | 3662 | 3647 | 3650 | 3637 | 3626 | 3616 | 3606 | 3597 |
| | Concrete + Deck = | 50.6 | psf | | I _{cr} = 53.4 | | in ⁴ /ft | | ASD | M _{no} /Ω = 46.0 | | kip-in/ft | | V _n /Ω = 3.06 | | kip/ft |
| (I _{cr} +I _u)/2 = | 81.1235 | in ⁴ /ft | | I _u = 108.9 | | in ⁴ /ft | | LRFD | φM _{no} = 70.3 | | kip-in/ft | | φV _n = 4.59 | | kip/ft | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" |
|--|---|---------------------|-------|------------------------|------------------------|---------------------|---------------------|-------|-------------------------|---------------------------|-----------|-----------|------------------------|--------------------------|--------|--------|
| 18 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | |
| | ASD, W/Ω | 1223 | 1112 | 1019 | 941 | 857 | 742 | 647 | 569 | 503 | 448 | 400 | 360 | 315 | 275 | 242 |
| | LRFD, φW | 1835 | 1668 | 1529 | 1351 | 1156 | 999 | 871 | 764 | 675 | 600 | 535 | 480 | 432 | 390 | 353 |
| | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | 315 | 275 | 242 |
| | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | Arc Spot Weld 1/2" Effective Dia | 4562 | 4455 | 4366 | 4333 | 4265 | 4206 | 4155 | 4110 | 4070 | 4063 | 4029 | 3998 | 3970 | 3945 | 3922 |
| | PAF Base Steel ≥ .25" | 4034 | 3975 | 3926 | 3927 | 3888 | 3855 | 3826 | 3800 | 3777 | 3785 | 3765 | 3747 | 3731 | 3716 | 3702 |
| | PAF Base Steel ≥ 0.125" | 3996 | 3940 | 3894 | 3897 | 3861 | 3829 | 3801 | 3777 | 3755 | 3765 | 3746 | 3729 | 3713 | 3699 | 3686 |
| | #12 Screw Base Steel ≥ .0385" | 3969 | 3916 | 3872 | 3877 | 3842 | 3811 | 3785 | 3761 | 3741 | 3751 | 3732 | 3716 | 3701 | 3687 | 3675 |
| | Concrete + Deck = | 51.3 | psf | | I _{cr} = 64.6 | | in ⁴ /ft | | ASD | M _{no} /Ω = 58.5 | | kip-in/ft | | V _n /Ω = 3.06 | | kip/ft |
| (I _{cr} +I _u)/2 = | 89.53768 | in ⁴ /ft | | I _u = 114.5 | | in ⁴ /ft | | LRFD | φM _{no} = 89.5 | | kip-in/ft | | φV _n = 4.59 | | kip/ft | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" |
|--|---|---------------------|-------|------------------------|------------------------|---------------------|---------------------|-------|--------------------------|---------------------------|-----------|-----------|------------------------|--------------------------|--------|--------|
| 16 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | |
| | ASD, W/Ω | 1223 | 1112 | 1019 | 941 | 874 | 815 | 765 | 694 | 615 | 530 | 455 | 393 | 342 | 299 | 263 |
| | LRFD, φW | 1835 | 1668 | 1529 | 1411 | 1311 | 1218 | 1063 | 934 | 827 | 735 | 658 | 591 | 533 | 482 | 438 |
| | L/360 | - | - | - | - | - | - | - | - | - | 530 | 455 | 393 | 342 | 299 | 263 |
| | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | Arc Spot Weld 1/2" Effective Dia | 4890 | 4753 | 4638 | 4607 | 4519 | 4442 | 4376 | 4317 | 4264 | 4263 | 4218 | 4178 | 4142 | 4108 | 4078 |
| | PAF Base Steel ≥ .25" | 4211 | 4135 | 4072 | 4084 | 4033 | 3989 | 3951 | 3917 | 3887 | 3905 | 3879 | 3855 | 3833 | 3813 | 3795 |
| | PAF Base Steel ≥ 0.125" | 4137 | 4068 | 4010 | 4027 | 3981 | 3940 | 3905 | 3874 | 3846 | 3866 | 3842 | 3819 | 3799 | 3781 | 3764 |
| | #12 Screw Base Steel ≥ .0385" | 4150 | 4081 | 4023 | 4040 | 3993 | 3953 | 3917 | 3886 | 3858 | 3879 | 3854 | 3832 | 3811 | 3793 | 3776 |
| | Concrete + Deck = | 52.0 | psf | | I _{cr} = 74.7 | | in ⁴ /ft | | ASD | M _{no} /Ω = 70.6 | | kip-in/ft | | V _n /Ω = 3.06 | | kip/ft |
| (I _{cr} +I _u)/2 = | 97.2466 | in ⁴ /ft | | I _u = 119.8 | | in ⁴ /ft | | LRFD | φM _{no} = 108.0 | | kip-in/ft | | φV _n = 4.59 | | kip/ft | |

| All Gages | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) for all vertical load spans, WWF Size or Area of Steel per foot width | | | | | | | | | | | | | | | | | | | | |
|-----------|---|--|--|--|------|--|--|--|------|--|--|--|------|--|--|--|-------|--|--|--|--|
| | | 6x6 W1.4xW1.4 | | | | 6x6 W2.9xW2.9 | | | | 6x6 W4.0xW4.0 | | | | 4x4 W4xW4 | | | | 4x4 W6xW6 | | | |
| | 3/4" Welded Shear Studs | A _s = 0.028 in ² /ft | | | | A _s = 0.058 in ² /ft | | | | A _s = 0.080 in ² /ft | | | | A _s = 0.120 in ² /ft | | | | A _s = 0.180 in ² /ft | | | |
| | | 6 in o.c. | | | | 12 in o.c. | | | | 18 in o.c. | | | | 6 in o.c. | | | | 12 in o.c. | | | |
| | n/a | | | | 6030 | | | | 7020 | | | | 8820 | | | | 11520 | | | | |
| | n/a | | | | 6030 | | | | 7020 | | | | 8820 | | | | 11520 | | | | |
| | n/a | | | | 6030 | | | | 7020 | | | | 8790 | | | | 8790 | | | | |

B PANELS

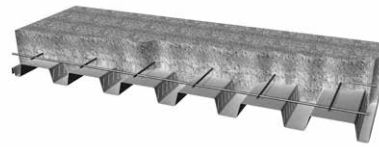
4.4 BH-36 Composite Deck

6" Total Slab Depth

Normal Weight Concrete (145 pcf)

Concrete Volume 1.548yd³/100ft²

2 Hour Fire Rating



BH-36 6" Slab Depth, 145 pcf NWC

| Maximum Unshored Span | Gage | Single | Double | Triple |
|-----------------------|---------|---------|----------|---------|
| | 22 | 5' - 4" | 5' - 11" | 6' - 4" |
| 20 | 6' - 4" | 7' - 1" | 7' - 1" | 7' - 6" |

| Gage | Single | Double | Triple |
|------|----------|---------|----------|
| | 18 | 7' - 4" | 8' - 8" |
| 16 | 7' - 11" | 9' - 8" | 9' - 10" |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" |
|--|---|---------------------|-------|-------|------------------------|---------------------|-------|---------------------------|-----------|-------|--------------------------|--------|--------|--------|--------|--------|
| 22 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | |
| | ASD, W/Ω | 1505 | 1236 | 1031 | 872 | 745 | 643 | 560 | 490 | 432 | 383 | 341 | 305 | 274 | 247 | 223 |
| | LRFD, φW | 2036 | 1670 | 1391 | 1174 | 1002 | 863 | 750 | 656 | 577 | 510 | 453 | 404 | 361 | 324 | 292 |
| | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | Arc Spot Weld 1/2" Effective Dia | 5086 | 5022 | 4969 | 4941 | 4901 | 4867 | 4836 | 4810 | 4786 | 4776 | 4757 | 4739 | 4723 | 4708 | 4695 |
| | PAF Base Steel ≥ .25" | 4771 | 4736 | 4706 | 4698 | 4676 | 4656 | 4639 | 4624 | 4611 | 4610 | 4599 | 4589 | 4580 | 4571 | 4563 |
| | PAF Base Steel ≥ 0.125" | 4746 | 4713 | 4686 | 4679 | 4658 | 4640 | 4624 | 4610 | 4597 | 4597 | 4587 | 4577 | 4568 | 4560 | 4553 |
| | #12 Screw Base Steel ≥ .0385" | 4724 | 4693 | 4667 | 4662 | 4642 | 4625 | 4610 | 4597 | 4585 | 4586 | 4576 | 4566 | 4558 | 4551 | 4544 |
| | Concrete + Deck = | 62.4 | psf | | | | | | | | | | | | | |
| (I _{cr} +I _u)/Z = | 130.7316 | in ⁴ /ft | | | | | | | | | | | | | | |
| | | | | | I _{cr} = 75.7 | in ⁴ /ft | ASD | M _{no} /Ω = 51.7 | kip-in/ft | | V _n /Ω = 3.94 | kip/ft | | | | |
| | | | | | I _u = 185.8 | in ⁴ /ft | LRFD | φM _{no} = 79.2 | kip-in/ft | | φ V _n = 5.92 | kip/ft | | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" |
|--|---|---------------------|-------|-------|------------------------|---------------------|-------|---------------------------|-----------|-------|--------------------------|--------|--------|--------|--------|--------|
| 20 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | |
| | ASD, W/Ω | 1577 | 1434 | 1222 | 1035 | 886 | 765 | 667 | 586 | 517 | 459 | 410 | 367 | 331 | 299 | 270 |
| | LRFD, φW | 2366 | 1979 | 1651 | 1396 | 1193 | 1030 | 896 | 785 | 692 | 613 | 546 | 489 | 438 | 395 | 356 |
| | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | Arc Spot Weld 1/2" Effective Dia | 5235 | 5157 | 5092 | 5061 | 5012 | 4970 | 4933 | 4900 | 4871 | 4862 | 4838 | 4816 | 4796 | 4778 | 4761 |
| | PAF Base Steel ≥ .25" | 4850 | 4807 | 4771 | 4765 | 4737 | 4714 | 4693 | 4674 | 4658 | 4659 | 4645 | 4633 | 4621 | 4610 | 4601 |
| | PAF Base Steel ≥ 0.125" | 4821 | 4781 | 4747 | 4743 | 4717 | 4694 | 4674 | 4657 | 4641 | 4644 | 4631 | 4619 | 4608 | 4598 | 4589 |
| | #12 Screw Base Steel ≥ .0385" | 4796 | 4758 | 4726 | 4724 | 4699 | 4678 | 4659 | 4642 | 4628 | 4631 | 4618 | 4607 | 4597 | 4587 | 4578 |
| | Concrete + Deck = | 62.7 | psf | | | | | | | | | | | | | |
| (I _{cr} +I _u)/Z = | 138.6298 | in ⁴ /ft | | | | | | | | | | | | | | |
| | | | | | I _{cr} = 86.6 | in ⁴ /ft | ASD | M _{no} /Ω = 60.9 | kip-in/ft | | V _n /Ω = 3.94 | kip/ft | | | | |
| | | | | | I _u = 190.6 | in ⁴ /ft | LRFD | φM _{no} = 93.2 | kip-in/ft | | φ V _n = 5.92 | kip/ft | | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" |
|--|---|---------------------|-------|-------|-------------------------|---------------------|-------|---------------------------|-----------|-------|--------------------------|--------|--------|--------|--------|--------|
| 18 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | |
| | ASD, W/Ω | 1577 | 1434 | 1315 | 1213 | 1127 | 993 | 867 | 762 | 675 | 601 | 538 | 483 | 436 | 395 | 359 |
| | LRFD, φW | 2366 | 2151 | 1972 | 1808 | 1548 | 1339 | 1167 | 1025 | 907 | 806 | 720 | 646 | 582 | 526 | 477 |
| | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | Arc Spot Weld 1/2" Effective Dia | 5543 | 5436 | 5347 | 5314 | 5246 | 5187 | 5136 | 5091 | 5051 | 5043 | 5010 | 4979 | 4951 | 4926 | 4903 |
| | PAF Base Steel ≥ .25" | 5015 | 4956 | 4907 | 4908 | 4869 | 4836 | 4806 | 4781 | 4758 | 4766 | 4746 | 4728 | 4711 | 4696 | 4683 |
| | PAF Base Steel ≥ 0.125" | 4977 | 4921 | 4875 | 4878 | 4842 | 4810 | 4782 | 4758 | 4736 | 4746 | 4727 | 4710 | 4694 | 4680 | 4667 |
| | #12 Screw Base Steel ≥ .0385" | 4950 | 4897 | 4853 | 4858 | 4823 | 4792 | 4766 | 4742 | 4721 | 4732 | 4713 | 4697 | 4682 | 4668 | 4656 |
| | Concrete + Deck = | 63.4 | psf | | | | | | | | | | | | | |
| (I _{cr} +I _u)/Z = | 152.6704 | in ⁴ /ft | | | | | | | | | | | | | | |
| | | | | | I _{cr} = 105.7 | in ⁴ /ft | ASD | M _{no} /Ω = 78.0 | kip-in/ft | | V _n /Ω = 3.94 | kip/ft | | | | |
| | | | | | I _u = 199.7 | in ⁴ /ft | LRFD | φM _{no} = 119.4 | kip-in/ft | | φ V _n = 5.92 | kip/ft | | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" |
|--|---|---------------------|-------|-------|-------------------------|---------------------|-------|---------------------------|-----------|-------|--------------------------|--------|--------|--------|--------|--------|
| 16 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | |
| | ASD, W/Ω | 1577 | 1434 | 1315 | 1213 | 1127 | 1052 | 986 | 928 | 827 | 738 | 661 | 595 | 538 | 488 | 444 |
| | LRFD, φW | 2366 | 2151 | 1972 | 1820 | 1690 | 1577 | 1430 | 1258 | 1114 | 992 | 888 | 798 | 720 | 652 | 593 |
| | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | Arc Spot Weld 1/2" Effective Dia | 5871 | 5734 | 5619 | 5587 | 5499 | 5423 | 5356 | 5298 | 5245 | 5244 | 5199 | 5159 | 5122 | 5089 | 5058 |
| | PAF Base Steel ≥ .25" | 5192 | 5116 | 5053 | 5065 | 5014 | 4970 | 4932 | 4898 | 4868 | 4886 | 4859 | 4835 | 4814 | 4794 | 4775 |
| | PAF Base Steel ≥ 0.125" | 5118 | 5049 | 4991 | 5008 | 4962 | 4921 | 4886 | 4855 | 4827 | 4847 | 4823 | 4800 | 4780 | 4762 | 4745 |
| | #12 Screw Base Steel ≥ .0385" | 5131 | 5061 | 5004 | 5021 | 4974 | 4933 | 4898 | 4867 | 4839 | 4859 | 4835 | 4812 | 4792 | 4774 | 4757 |
| | Concrete + Deck = | 64.0 | psf | | | | | | | | | | | | | |
| (I _{cr} +I _u)/Z = | 165.5743 | in ⁴ /ft | | | | | | | | | | | | | | |
| | | | | | I _{cr} = 122.9 | in ⁴ /ft | ASD | M _{no} /Ω = 94.5 | kip-in/ft | | V _n /Ω = 3.94 | kip/ft | | | | |
| | | | | | I _u = 208.3 | in ⁴ /ft | LRFD | φM _{no} = 144.7 | kip-in/ft | | φ V _n = 5.92 | kip/ft | | | | |

| All Gages | LRFD - Available Diaphragm Shear Capacity, φS _n (plf / ft) for all vertical load spans, WWF Size or Area of Steel per foot width | | | | | | |
|-----------|---|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| | 3/4" Welded Shear Studs | 6x6 W1.4xW1.4 | 6x6 W2.9xW2.9 | 6x6 W4.0xW4.0 | 4x4 W4xW4 | 4x4 W6xW6 | |
| | | A _s = 0.028 | in ² /ft | A _s = 0.058 | in ² /ft | A _s = 0.080 | in ² /ft |
| | | A _s = 0.120 | in ² /ft | A _s = 0.180 | in ² /ft | | |
| | 6 in o.c. | n/a | 7020 | 8010 | 9810 | 12510 | |
| | 12 in o.c. | n/a | 7020 | 8010 | 9810 | 12510 | |
| | 18 in o.c. | n/a | 7020 | 8010 | 8790 | 8790 | |

6 3/4" Total Slab Depth

Normal Weight Concrete (145 pcf)

Concrete Volume 1.780yd³/100ft²

3 Hour Fire Rating



BH-36 6 3/4 " Slab Depth, 145 pcf NWC

| Maximum Unshored Span | Gage | Single | Double | Triple | | Gage | Single | Double | Triple |
|-----------------------|---------|----------|---------|---------|----|---------|---------|---------|---------|
| | 22 | 5' - 1" | 5' - 8" | 6' - 0" | | 6' - 0" | 18 | 7' - 0" | 8' - 3" |
| 20 | 6' - 1" | 6' - 10" | 7' - 1" | | 16 | 7' - 7" | 9' - 2" | 9' - 5" | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" | |
|------|---|---|---------------------|-------|-------------------|-------|---------------------|-------|-----------------------|-------|-----------|---------------------|--------|--------|--------|--------|------|
| 22 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | | |
| | | ASD, W/Ω | 1789 | 1469 | 1226 | 1037 | 887 | 765 | 666 | 584 | 515 | 457 | 407 | 364 | 327 | 295 | 266 |
| | | LRFD, φW | 2420 | 1986 | 1655 | 1397 | 1193 | 1028 | 893 | 781 | 688 | 609 | 541 | 483 | 432 | 388 | 349 |
| | | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | | Arc Spot Weld 1/2" Effective Dia | 5822 | 5758 | 5705 | 5676 | 5637 | 5602 | 5572 | 5546 | 5522 | 5512 | 5492 | 5475 | 5459 | 5444 | 5430 |
| | | PAF Base Steel ≥ .25" | 5506 | 5471 | 5442 | 5434 | 5411 | 5392 | 5375 | 5360 | 5347 | 5346 | 5335 | 5324 | 5315 | 5307 | 5299 |
| | | PAF Base Steel ≥ 0.125" | 5482 | 5449 | 5422 | 5415 | 5394 | 5376 | 5360 | 5346 | 5333 | 5332 | 5322 | 5313 | 5304 | 5296 | 5289 |
| | | #12 Screw Base Steel ≥ .0385" | 5459 | 5428 | 5403 | 5397 | 5378 | 5361 | 5345 | 5332 | 5320 | 5321 | 5311 | 5302 | 5294 | 5286 | 5279 |
| | | Concrete + Deck = | 71.4 | psf | | | | | | | | | | | | | |
| | (I _{cr} +I _u)/Z = | 184.9187 | in ⁴ /ft | | | | | | | | | | | | | | |
| | | | | | I _{cr} = | 102.5 | in ⁴ /ft | ASD | M _{ncj} /Ω = | 61.4 | kip-in/ft | V _n /Ω = | 4.67 | kip/ft | | | |
| | | | | | I _u = | 267.4 | in ⁴ /ft | LRFD | φM _{ncj} = | 94.0 | kip-in/ft | φV _n = | 7.00 | kip/ft | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" | |
|------|---|---|---------------------|-------|-------------------|-------|---------------------|-------|-----------------------|-------|-----------|---------------------|--------|--------|--------|--------|------|
| 20 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | | |
| | | ASD, W/Ω | 1867 | 1697 | 1455 | 1232 | 1055 | 912 | 795 | 698 | 617 | 548 | 490 | 439 | 395 | 357 | 324 |
| | | LRFD, φW | 2801 | 2357 | 1967 | 1663 | 1422 | 1228 | 1068 | 937 | 826 | 733 | 653 | 584 | 525 | 473 | 427 |
| | | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | | Arc Spot Weld 1/2" Effective Dia | 5970 | 5893 | 5828 | 5797 | 5748 | 5706 | 5669 | 5636 | 5607 | 5597 | 5573 | 5551 | 5532 | 5513 | 5497 |
| | | PAF Base Steel ≥ .25" | 5586 | 5543 | 5507 | 5501 | 5473 | 5449 | 5428 | 5410 | 5393 | 5395 | 5381 | 5368 | 5357 | 5346 | 5336 |
| | | PAF Base Steel ≥ 0.125" | 5556 | 5516 | 5483 | 5478 | 5452 | 5430 | 5410 | 5393 | 5377 | 5380 | 5366 | 5354 | 5343 | 5333 | 5324 |
| | | #12 Screw Base Steel ≥ .0385" | 5532 | 5494 | 5462 | 5459 | 5435 | 5413 | 5395 | 5378 | 5363 | 5367 | 5354 | 5343 | 5332 | 5323 | 5314 |
| | | Concrete + Deck = | 71.8 | psf | | | | | | | | | | | | | |
| | (I _{cr} +I _u)/Z = | 195.7111 | in ⁴ /ft | | | | | | | | | | | | | | |
| | | | | | I _{cr} = | 117.5 | in ⁴ /ft | ASD | M _{ncj} /Ω = | 72.4 | kip-in/ft | V _n /Ω = | 4.67 | kip/ft | | | |
| | | | | | I _u = | 273.9 | in ⁴ /ft | LRFD | φM _{ncj} = | 110.8 | kip-in/ft | φV _n = | 7.00 | kip/ft | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" | |
|------|---|---|---------------------|-------|-------------------|-------|---------------------|-------|-----------------------|-------|-----------|---------------------|--------|--------|--------|--------|------|
| 18 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | | |
| | | ASD, W/Ω | 1867 | 1697 | 1556 | 1436 | 1334 | 1187 | 1036 | 912 | 808 | 719 | 644 | 579 | 523 | 474 | 430 |
| | | LRFD, φW | 2801 | 2546 | 2334 | 2154 | 1851 | 1601 | 1397 | 1227 | 1085 | 965 | 863 | 774 | 698 | 631 | 572 |
| | | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | | Arc Spot Weld 1/2" Effective Dia | 6278 | 6171 | 6082 | 6049 | 5982 | 5923 | 5872 | 5826 | 5786 | 5779 | 5745 | 5715 | 5687 | 5661 | 5638 |
| | | PAF Base Steel ≥ .25" | 5751 | 5692 | 5643 | 5643 | 5605 | 5571 | 5542 | 5516 | 5493 | 5501 | 5482 | 5464 | 5447 | 5432 | 5418 |
| | | PAF Base Steel ≥ 0.125" | 5712 | 5657 | 5611 | 5614 | 5577 | 5546 | 5518 | 5494 | 5472 | 5481 | 5462 | 5445 | 5430 | 5415 | 5402 |
| | | #12 Screw Base Steel ≥ .0385" | 5686 | 5633 | 5589 | 5593 | 5558 | 5528 | 5501 | 5478 | 5457 | 5467 | 5449 | 5433 | 5418 | 5404 | 5391 |
| | | Concrete + Deck = | 72.4 | psf | | | | | | | | | | | | | |
| | (I _{cr} +I _u)/Z = | 215.0718 | in ⁴ /ft | | | | | | | | | | | | | | |
| | | | | | I _{cr} = | 144.0 | in ⁴ /ft | ASD | M _{ncj} /Ω = | 93.1 | kip-in/ft | V _n /Ω = | 4.67 | kip/ft | | | |
| | | | | | I _u = | 286.1 | in ⁴ /ft | LRFD | φM _{ncj} = | 142.4 | kip-in/ft | φV _n = | 7.00 | kip/ft | | | |

| Gage | Vertical Load Span (ft-in) | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 8'-6" | 9'-0" | 9'-6" | 10'-0" | 10'-6" | 11'-0" | 11'-6" | 12'-0" | |
|------|---|---|---------------------|-------|-------------------|-------|---------------------|-------|-----------------------|-------|-----------|---------------------|--------|--------|--------|--------|------|
| 16 | ASD & LRFD - Available Superimposed Load Capacity, W (psf) | | | | | | | | | | | | | | | | |
| | | ASD, W/Ω | 1867 | 1697 | 1556 | 1436 | 1334 | 1245 | 1167 | 1098 | 992 | 885 | 793 | 714 | 646 | 586 | 534 |
| | | LRFD, φW | 2801 | 2546 | 2334 | 2154 | 2000 | 1867 | 1714 | 1508 | 1336 | 1190 | 1066 | 958 | 865 | 784 | 713 |
| | | L/360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) 36/4 Attachment Pattern | | | | | | | | | | | | | | | |
| | | Arc Spot Weld 1/2" Effective Dia | 6607 | 6469 | 6354 | 6323 | 6235 | 6159 | 6092 | 6033 | 5981 | 5979 | 5935 | 5895 | 5858 | 5825 | 5794 |
| | | PAF Base Steel ≥ .25" | 5928 | 5852 | 5788 | 5801 | 5750 | 5706 | 5668 | 5634 | 5603 | 5622 | 5595 | 5571 | 5549 | 5529 | 5511 |
| | | PAF Base Steel ≥ 0.125" | 5854 | 5785 | 5727 | 5744 | 5697 | 5657 | 5621 | 5590 | 5562 | 5583 | 5558 | 5536 | 5516 | 5497 | 5480 |
| | | #12 Screw Base Steel ≥ .0385" | 5866 | 5797 | 5739 | 5756 | 5710 | 5669 | 5634 | 5602 | 5575 | 5595 | 5570 | 5548 | 5528 | 5509 | 5492 |
| | | Concrete + Deck = | 73.1 | psf | | | | | | | | | | | | | |
| | (I _{cr} +I _u)/Z = | 232.9121 | in ⁴ /ft | | | | | | | | | | | | | | |
| | | | | | I _{cr} = | 168.1 | in ⁴ /ft | ASD | M _{ncj} /Ω = | 113.1 | kip-in/ft | V _n /Ω = | 4.67 | kip/ft | | | |
| | | | | | I _u = | 297.7 | in ⁴ /ft | LRFD | φM _{ncj} = | 173.0 | kip-in/ft | φV _n = | 7.00 | kip/ft | | | |

| All Gages | LRFD - Available Diaphragm Shear Capacity, φS_n (plf / ft) for all vertical load spans, WWF Size or Area of Steel per foot width | | | | | | | | | | | | | | | | | | | | |
|-----------|---|--|-----|--|------|--|--|------|------|--|--|-------|-------|--|-------|-------|--|--|--|--|--|
| | | 6x6 W1.4xW1.4 | | | | 6x6 W2.9xW2.9 | | | | 6x6 W4.0xW4.0 | | | | 4x4 W4xW4 | | | | 4x4 W6xW6 | | | |
| | 3/4" Welded Shear Studs | A _s = 0.028 in ² /ft | | | | A _s = 0.058 in ² /ft | | | | A _s = 0.080 in ² /ft | | | | A _s = 0.120 in ² /ft | | | | A _s = 0.180 in ² /ft | | | |
| | | 6 in o.c. | n/a | | | 7760 | | | 8750 | | | | 10550 | | | 13250 | | | | | |
| | 12 in o.c. | n/a | | | 7760 | | | 8750 | | | | 10550 | | | 13180 | | | | | | |
| | 18 in o.c. | n/a | | | 7760 | | | 8750 | | | | 8790 | | | 8790 | | | | | | |

B PANELS