## VULCRAFT LOAD TABLE
## SUPER LONGSPAN STEEL JOISTS, ASD SLH-SERIES

**JANUARY 1, 2007**

### Based on a 50 ksi Maximum Yield Strength

The black figures in the following table give the TOTAL safe uniformly-distributed load-carrying capacities, in pounds per linear foot, of ASD SLH-Series Joists. The weight of DEAD loads, including the joists, must in all cases be deducted to determine the LIVE load-carrying capacities of the joists. The approximate DEAD load of the joists may be determined from the weights per linear foot shown in the tables. All loads shown are for roof construction only.

The red figures in this table are the LIVE loads per linear foot of joist which will produce an approximate deflection of 1/360 of the span. LIVE loads which will produce a deflection of 1/240 of the span may be obtained by multiplying the red figures by 1.5. In no case shall the TOTAL load capacity of the joists be exceeded.

This load table applies to joists with either parallel chords or standard pitched top chords. When top chords are pitched, the design capacities are determined by the nominal depth of the joists at the center of the span. Standard top chord pitch is 1/4 inch per foot. If pitch exceeds this standard, the load table does not apply. This load table may be used for parallel chord joists installed to a maximum slope of 1/2 inch per foot.

When holes are required in top or bottom chords, the carrying capacities must be reduced in proportion to reduction of chord areas.

The top chords are considered as being stayed laterally by the roof deck.

The approximate joist weights per linear foot shown in these table do not include accessories.

**When erecting SLH joists, hoisting cables shall not be released until all rows of bridging are completely installed.**

*The safe load for the clear spans shown in the shaded section is equal to (Safe Load) / (Clear Span + 0.67). [The added 0.67 feet (8 inches) is required to obtain the proper length on which the Load Tables were developed.]
In no case shall the safe uniform load, for clear spans less than the minimum clear span shown in the shaded area, exceed the uniform load calculated for the minimum clear span listed in the shaded area.

To solve for **live** loads for clear spans shown in the shaded area (or lesser clear spans), multiply the live load of the shortest clear span shown in the Load tables by (the shortest clear span shown in the Load table + 0.67 feet)² and divide by (the actual clear span +.067 feet)². The live load shall **not** exceed the safe uniform load.

**For spans between those listed use a linear interpolation.

# ASD

| Joist Designation | Approx. Wt. In Lbs. per Linear Ft. (Joists Only) | Depth In Inches | Safe Load* In Lbs. Between | CLEAR SPAN IN FEET** | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **80-110** | **111** | **114** | **117** | **120** | **123** | **126** | **129** | **132** | **135** | **138** | **141** | **144** | **147** | **150** | **155** |
| **80SLH15** | 40 | 80 | 52,000 | 466 | 442 | 421 | 401 | 383 | 366 | 350 | 335 | 321 | 307 | 295 | 283 | 272 | 261 | 244 | 228 |
| | | | | 321 | 296 | 275 | 255 | 236 | 220 | 205 | 192 | 179 | 167 | 157 | 147 | 139 | 130 | 118 | 107 |
| **80SLH16** | 46 | 80 | 62,500 | 560 | 535 | 509 | 485 | 461 | 439 | 419 | 400 | 383 | 366 | 350 | 336 | 322 | 309 | 289 | 271 |
| | | | | 375 | 347 | 321 | 297 | 276 | 257 | 240 | 224 | 209 | 196 | 184 | 172 | 162 | 162 | 138 | 126 |
| **80SLH17** | 53 | 80 | 72,200 | 647 | 617 | 587 | 559 | 533 | 510 | 487 | 466 | 446 | 427 | 410 | 393 | 378 | 363 | 340 | 319 |
| | | | | 451 | 416 | 386 | 358 | 332 | 309 | 288 | 269 | 252 | 235 | 221 | 207 | 195 | 183 | 166 | 151 |
| **80SLH18** | 60 | 80 | 81,600 | 731 | 696 | 662 | 631 | 602 | 575 | 550 | 526 | 504 | 482 | 463 | 444 | 427 | 410 | 384 | 361 |
| | | | | 516 | 477 | 441 | 409 | 380 | 354 | 330 | 308 | 288 | 270 | 253 | 237 | 223 | 210 | 190 | 173 |
| **80SLH19** | 67 | 80 | 95,200 | 853 | 812 | 773 | 736 | 701 | 670 | 640 | 612 | 585 | 560 | 537 | 516 | 495 | 476 | 445 | 418 |
| | | | | 578 | 533 | 493 | 458 | 425 | 396 | 369 | 344 | 322 | 301 | 283 | 266 | 250 | 235 | 213 | 193 |
| **80SLH20** | 75 | 80 | 107,000 | 964 | 921 | 882 | 845 | 807 | 771 | 736 | 704 | 674 | 645 | 618 | 594 | 570 | 547 | 513 | 481 |
| | | | | 646 | 596 | 552 | 512 | 475 | 443 | 412 | 385 | 360 | 337 | 316 | 297 | 279 | 263 | 238 | 216 |
| | | | **88-119** | **120** | **123** | **126** | **129** | **132** | **135** | **138** | **141** | **144** | **147** | **150** | **155** | **160** | **165** | **170** | **175** |
| **88SLH16** | 46 | 88 | 62,000 | 514 | 490 | 467 | 447 | 428 | 410 | 394 | 378 | 363 | 349 | 335 | 314 | 295 | 278 | 262 | 248 |
| | | | | 361 | 336 | 313 | 291 | 272 | 254 | 238 | 223 | 210 | 197 | 186 | 168 | 153 | 140 | 127 | 117 |
| **88SLH17** | 51 | 88 | 70,100 | 581 | 553 | 526 | 502 | 479 | 458 | 439 | 420 | 403 | 386 | 371 | 347 | 326 | 306 | 288 | 271 |
| | | | | 404 | 375 | 349 | 325 | 304 | 284 | 266 | 249 | 234 | 220 | 207 | 187 | 170 | 156 | 143 | 130 |
| **88SLH18** | 58 | 88 | 80,400 | 667 | 635 | 605 | 577 | 551 | 527 | 504 | 483 | 463 | 444 | 426 | 399 | 374 | 352 | 331 | 312 |
| | | | | 460 | 427 | 397 | 370 | 346 | 323 | 303 | 284 | 267 | 250 | 236 | 214 | 195 | 177 | 162 | 149 |
| **88SLH19** | 65 | 88 | 93,000 | 771 | 734 | 699 | 666 | 636 | 608 | 582 | 557 | 534 | 513 | 492 | 461 | 432 | 406 | 382 | 360 |
| | | | | 521 | 484 | 450 | 420 | 392 | 367 | 343 | 322 | 302 | 284 | 267 | 243 | 221 | 201 | 184 | 169 |
| **88SLH20** | 76 | 88 | 107,000 | 889 | 854 | 821 | 789 | 755 | 723 | 694 | 665 | 639 | 614 | 590 | 553 | 520 | 489 | 461 | 435 |
| | | | | 623 | 579 | 539 | 502 | 469 | 438 | 410 | 385 | 361 | 340 | 320 | 290 | 264 | 241 | 220 | 202 |
| **88SLH21** | 89 | 88 | 132,000 | 1099 | 1045 | 996 | 950 | 907 | 867 | 829 | 794 | 762 | 731 | 702 | 657 | 616 | 579 | 544 | 513 |
| | | | | 724 | 673 | 626 | 584 | 545 | 509 | 477 | 447 | 420 | 395 | 372 | 337 | 307 | 280 | 256 | 235 |