

VULCRAFT LOAD TABLE / OPEN WEB STEEL JOISTS, VH SERIES JOISTS

| JOIST TYPE                             | 18VH4 | 18VH6 | 20VH4 | 20VH7 | 22VH5 | 22VH8 | 24VH8 | 26VH7 | 26VH9 | 28VH10 |
|----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| OVERALL DEPTH (inches)                 | 18    | 18    | 20    | 20    | 22    | 22    | 24    | 26    | 26    | 28     |
| RESISTING MOM. (inch-kips)             | 244   | 383   | 272   | 499   | 404   | 653   | 716   | 638   | 925   | 1124   |
| MAX. END. REAC. (pounds)               | 3400  | 5600  | 3500  | 6500  | 4800  | 7500  | 7800  | 5600  | 8800  | 8700   |
| MOM. OF INERTIA (inches <sup>4</sup> ) | 78.8  | 119.8 | 98.0  | 171.7 | 146.6 | 247.6 | 297.3 | 305.3 | 390.0 | 512.0  |
| JOIST WT./FT. (pounds/ft.)             | 6.6   | 9.3   | 7.0   | 10.8  | 8.5   | 12.3  | 12.9  | 11.9  | 15.1  | 17.1   |
| SPAN (ft.)                             |       |       |       |       |       |       |       |       |       |        |
| 18                                     | 378   | 622   |       |       |       |       |       |       |       |        |
| 19                                     | 358   | 589   |       |       |       |       |       |       |       |        |
| 20                                     | 340   | 560   | 350   | 650   |       |       |       |       |       |        |
| 21                                     | 324   | 533   | 333   | 619   |       |       |       |       |       |        |
| 22                                     | 318   | 509   | 318   | 591   | 436   | 650   |       |       |       |        |
| 23                                     | 309   | 420   |       |       |       |       |       |       |       |        |
| 23                                     | 276   | 483   | 304   | 565   | 417   | 650   |       |       |       |        |
| 24                                     | 296   | 368   | 301   |       |       |       |       |       |       |        |
| 24                                     | 242   | 443   | 292   | 542   | 400   | 625   | 650   |       |       |        |
| 25                                     | 282   | 324   | 265   |       | 396   |       |       |       |       |        |
| 25                                     | 213   | 409   | 280   | 520   | 384   | 600   | 624   |       |       |        |
| 25                                     | 188   | 286   | 234   | 411   | 351   |       |       |       |       |        |
| 26                                     | 241   | 378   | 268   | 492   | 369   | 577   | 600   | 431   | 650   |        |
| 27                                     | 167   | 255   | 208   | 365   | 312   |       |       |       |       |        |
| 27                                     | 223   | 350   | 249   | 456   | 356   | 556   | 578   | 415   | 650   |        |
| 28                                     | 150   | 227   | 186   | 326   | 278   |       |       |       |       |        |
| 28                                     | 207   | 326   | 231   | 424   | 343   | 536   | 557   | 400   | 629   | 621    |
| 29                                     | 134   | 204   | 167   | 292   | 249   |       |       |       |       |        |
| 29                                     | 193   | 304   | 216   | 396   | 320   | 517   | 538   | 386   | 607   | 600    |
| 30                                     | 121   | 184   | 150   | 263   | 225   | 379   |       |       |       |        |
| 30                                     | 181   | 284   | 201   | 370   | 299   | 484   | 520   | 373   | 587   | 580    |
| 30                                     | 109   | 166   | 136   | 238   | 203   | 343   |       |       |       |        |
| 31                                     | 169   | 266   | 189   | 346   | 280   | 453   | 497   | 361   | 568   | 561    |
| 32                                     | 99    | 150   | 123   | 215   | 184   | 311   | 373   |       |       |        |
| 32                                     | 159   | 249   | 177   | 325   | 263   | 425   | 466   | 350   | 550   | 544    |
| 33                                     | 90    | 137   | 112   | 196   | 167   | 282   | 339   | 348   | 445   |        |
| 33                                     | 149   | 234   | 167   | 305   | 247   | 400   | 438   | 339   | 533   | 527    |
| 34                                     | 82    | 125   | 102   | 178   | 152   | 257   | 309   | 317   | 405   |        |
| 34                                     | 141   | 221   | 157   | 288   | 233   | 377   | 413   | 329   | 518   | 512    |
| 35                                     | 75    | 114   | 93    | 163   | 139   | 235   | 283   | 290   | 371   |        |
| 35                                     | 133   | 208   | 148   | 272   | 220   | 355   | 390   | 320   | 503   | 497    |
| 35                                     | 69    | 104   | 85    | 150   | 128   | 216   | 259   | 266   | 340   |        |
| 36                                     | 126   | 197   | 140   | 257   | 208   | 336   | 368   | 311   | 476   | 483    |
| 37                                     | 63    | 96    | 78    | 137   | 117   | 198   | 238   | 244   | 312   | 410    |
| 37                                     |       |       |       | 243   | 197   | 318   | 349   | 303   | 450   | 470    |
| 38                                     |       |       |       | 127   | 108   | 183   | 219   | 225   | 288   | 378    |
| 38                                     |       |       |       | 230   | 187   | 301   | 331   | 295   | 427   | 458    |
| 39                                     |       |       |       | 117   | 100   | 169   | 202   | 208   | 266   | 349    |
| 39                                     |       |       |       | 219   | 177   | 286   | 314   | 280   | 405   | 446    |
| 40                                     |       |       |       | 108   | 92    | 156   | 187   | 192   | 246   | 322    |
| 40                                     |       |       |       | 208   | 168   | 272   | 298   | 266   | 385   | 435    |
| 40                                     |       |       |       | 100   | 86    | 145   | 174   | 178   | 228   | 299    |
| 41                                     |       |       |       |       | 160   | 259   | 284   | 253   | 367   | 424    |
| 42                                     |       |       |       |       | 79    | 134   | 161   | 165   | 211   | 278    |
| 42                                     |       |       |       |       | 153   | 247   | 271   | 241   | 350   | 414    |
| 43                                     |       |       |       |       | 74    | 125   | 150   | 154   | 197   | 258    |
| 43                                     |       |       |       |       | 146   | 235   | 258   | 230   | 334   | 405    |
| 44                                     |       |       |       |       | 69    | 116   | 140   | 143   | 183   | 241    |
| 44                                     |       |       |       |       | 139   | 225   | 247   | 220   | 319   | 387    |
| 45                                     |       |       |       |       | 64    | 109   | 130   | 134   | 171   | 225    |
| 45                                     |       |       |       |       |       |       | 236   | 210   | 305   | 370    |
| 45                                     |       |       |       |       |       |       | 122   | 125   | 160   | 210    |
| 46                                     |       |       |       |       |       |       | 226   | 201   | 291   | 354    |
| 47                                     |       |       |       |       |       |       | 114   | 117   | 150   | 197    |
| 47                                     |       |       |       |       |       |       | 216   | 193   | 279   | 339    |
| 48                                     |       |       |       |       |       |       | 107   | 110   | 140   | 184    |
| 48                                     |       |       |       |       |       |       | 207   | 185   | 268   | 325    |
| 49                                     |       |       |       |       |       |       | 100   | 103   | 132   | 173    |
| 49                                     |       |       |       |       |       |       |       |       | 257   | 312    |
| 50                                     |       |       |       |       |       |       |       |       | 124   | 163    |
| 50                                     |       |       |       |       |       |       |       |       | 247   | 300    |
| 50                                     |       |       |       |       |       |       |       |       | 117   | 153    |
| 51                                     |       |       |       |       |       |       |       |       | 237   | 288    |
| 52                                     |       |       |       |       |       |       |       |       | 110   | 144    |
| 52                                     |       |       |       |       |       |       |       |       | 228   | 277    |
| 52                                     |       |       |       |       |       |       |       |       | 104   | 136    |

† Approximate weights per linear foot of steel joists only.  
Accessories and nailer strip not included.  
\*\* Section 5.9 of the "Standard Specifications for Open Web Steel Joists, H Series" limits the design LIVE load deflection as follows: FLOORS 1/360 of span where a plaster ceiling is attached or suspended; 1/240 of span for all other purposes.

LOADS ABOVE COLORED LINES ARE GOVERNED BY SHEAR.

