

WAC 51-11C-610221 Tables A102.2.4—Steel truss framed ceiling U_o values.

Table A102.2.4(1)
Steel Truss^a Framed Ceiling U_o

| Cavity | Truss Span (ft) | | | | | | | | | | | | |
|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
| 19 | 0.1075 | 0.0991 | 0.0928 | 0.0878 | 0.0839 | 0.0807 | 0.0780 | 0.0757 | 0.0737 | 0.0720 | 0.0706 | 0.0693 | 0.0681 |
| 30 | 0.0907 | 0.0823 | 0.0760 | 0.0710 | 0.0671 | 0.0638 | 0.0612 | 0.0589 | 0.0569 | 0.0552 | 0.0538 | 0.0525 | 0.0513 |
| 38 | 0.0844 | 0.0759 | 0.0696 | 0.0647 | 0.0607 | 0.0575 | 0.0548 | 0.0525 | 0.0506 | 0.0489 | 0.0474 | 0.0461 | 0.0449 |
| 49 | 0.0789 | 0.0704 | 0.0641 | 0.0592 | 0.0552 | 0.0520 | 0.0493 | 0.0470 | 0.0451 | 0.0434 | 0.0419 | 0.0406 | 0.0395 |

Table A102.2.4(2)
Steel Truss^a Framed Ceiling U_o with R-3 Sheathing

| Cavity | Truss Span (ft) | | | | | | | | | | | | |
|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
| 19 | 0.0809 | 0.0763 | 0.0728 | 0.0701 | 0.0679 | 0.0661 | 0.0647 | 0.0634 | 0.0623 | 0.0614 | 0.0606 | 0.0599 | 0.0592 |
| 30 | 0.0641 | 0.0595 | 0.0560 | 0.0533 | 0.0511 | 0.0493 | 0.0478 | 0.0466 | 0.0455 | 0.0446 | 0.0438 | 0.0431 | 0.0424 |
| 38 | 0.0577 | 0.0531 | 0.0496 | 0.0469 | 0.0447 | 0.0430 | 0.0415 | 0.0402 | 0.0392 | 0.0382 | 0.0374 | 0.0367 | 0.0361 |
| 49 | 0.0523 | 0.0476 | 0.0441 | 0.0414 | 0.0393 | 0.0375 | 0.0360 | 0.0348 | 0.0337 | 0.0328 | 0.0319 | 0.0312 | 0.0306 |

Table A102.2.4(3)
Steel Truss^a Framed Ceiling U_o with R-5 Sheathing

| Cavity | Truss Span (ft) | | | | | | | | | | | | |
|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
| 19 | 0.0732 | 0.0697 | 0.0670 | 0.0649 | 0.0633 | 0.0619 | 0.0608 | 0.0598 | 0.0590 | 0.0583 | 0.0577 | 0.0571 | 0.0567 |
| 30 | 0.0564 | 0.0529 | 0.0502 | 0.0481 | 0.0465 | 0.0451 | 0.0440 | 0.0430 | 0.0422 | 0.0415 | 0.0409 | 0.0403 | 0.0399 |
| 38 | 0.0501 | 0.0465 | 0.0438 | 0.0418 | 0.0401 | 0.0388 | 0.0376 | 0.0367 | 0.0359 | 0.0351 | 0.0345 | 0.0340 | 0.0335 |
| 49 | 0.0446 | 0.0410 | 0.0384 | 0.0363 | 0.0346 | 0.0333 | 0.0322 | 0.0312 | 0.0304 | 0.0297 | 0.0291 | 0.0285 | 0.0280 |

Table A102.2.4(4)
Steel Truss^a Framed Ceiling U_o with R-10 Sheathing

| Cavity | Truss Span (ft) | | | | | | | | | | | | |
|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
| 19 | 0.0626 | 0.0606 | 0.0590 | 0.0578 | 0.0569 | 0.0561 | 0.0555 | 0.0549 | 0.0545 | 0.0541 | 0.0537 | 0.0534 | 0.0531 |
| 30 | 0.0458 | 0.0437 | 0.0422 | 0.0410 | 0.0401 | 0.0393 | 0.0387 | 0.0381 | 0.0377 | 0.0373 | 0.0369 | 0.0366 | 0.0363 |
| 38 | 0.0394 | 0.0374 | 0.0359 | 0.0347 | 0.0337 | 0.0330 | 0.0323 | 0.0318 | 0.0313 | 0.0309 | 0.0305 | 0.0302 | 0.0299 |
| 49 | 0.0339 | 0.0319 | 0.0304 | 0.0292 | 0.0283 | 0.0275 | 0.0268 | 0.0263 | 0.0258 | 0.0254 | 0.0251 | 0.0247 | 0.0245 |

Table A102.2.4(5)
Steel Truss^a Framed Ceiling U_o with R-15 Sheathing

| Cavity | Truss Span (ft) | | | | | | | | | | | | |
|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
| 19 | 0.0561 | 0.0550 | 0.0541 | 0.0535 | 0.0530 | 0.0526 | 0.0522 | 0.0519 | 0.0517 | 0.0515 | 0.0513 | 0.0511 | 0.0509 |
| 30 | 0.0393 | 0.0382 | 0.0373 | 0.0367 | 0.0362 | 0.0358 | 0.0354 | 0.0351 | 0.0349 | 0.0347 | 0.0345 | 0.0343 | 0.0341 |
| 38 | 0.0329 | 0.0318 | 0.0310 | 0.0303 | 0.0298 | 0.0294 | 0.0291 | 0.0288 | 0.0285 | 0.0283 | 0.0281 | 0.0279 | 0.0278 |
| 49 | 0.0274 | 0.0263 | 0.0255 | 0.0249 | 0.0244 | 0.0239 | 0.0236 | 0.0233 | 0.0230 | 0.0228 | 0.0226 | 0.0225 | 0.0223 |

Footnotes for Tables A102.2.4(1) through A102.2.4(5)

- a Assembly values based on 24 inch on center truss spacing; 11 Truss member connections penetrating insulation (4 at the eaves, 7 in the interior space); 1/2 inch drywall ceiling; all truss members are 2x4 "C" channels with a solid web.
- b Ceiling sheathing installed between bottom chord and drywall.

[Statutory Authority: RCW 19.27A.020, 19.27A.025 and chapters 19.27 and 34.05 RCW. WSR 13-04-056, § 51-11C-610221, filed 2/1/13, effective 7/1/13.]