



WELDED PLAIN WIRE REINFORCEMENT LAP SPLICE SCHEDULE (ACI 318-19)

| WIRE SIZE | 3000 PSI CONCRETE WITH WIRE SPACING: | | | | | | 4000 PSI CONCRETE WITH WIRE SPACING: | | | | | | 5000 PSI CONCRETE WITH WIRE SPACING: | | | | | |
|-----------------------------|--------------------------------------|-------|-------|--------|--------|--------|--------------------------------------|-------|-------|--------|--------|--------|--------------------------------------|-------|-------|--------|--------|--------|
| | 4" OC | 6" OC | 8" OC | 10" OC | 12" OC | 14" OC | 4" OC | 6" OC | 8" OC | 10" OC | 12" OC | 14" OC | 4" OC | 6" OC | 8" OC | 10" OC | 12" OC | 14" OC |
| W1.4 - W2.1 (10GA - 8GA) | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 |
| | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 |
| W2.2 - W2.9 (UP TO 6GA) | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 |
| | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 |
| W3.0 - W4.0 (UP TO 4GA) | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 |
| | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 | 6 | 8 | 10 | 12 | 14 | 16 |
| W4.1 - W7.0 | 9.1 | 8 | 10 | 12 | 14 | 16 | 7.9 | 8 | 10 | 12 | 14 | 16 | 7.1 | 8 | 10 | 12 | 14 | 16 |
| | 10.4 | 8 | 10 | 12 | 14 | 16 | 9 | 8 | 10 | 12 | 14 | 16 | 8.1 | 8 | 10 | 12 | 14 | 16 |
| W7.1 - W10.0 | 13 | 8.7 | 10 | 12 | 14 | 16 | 11.3 | 8 | 10 | 12 | 14 | 16 | 10.1 | 8 | 10 | 12 | 14 | 16 |
| | 14.8 | 9.9 | 10 | 12 | 14 | 16 | 12.9 | 8.6 | 10 | 12 | 14 | 16 | 11.5 | 8 | 10 | 12 | 14 | 16 |
| W10.1 - W13.0 | 16.9 | 11.3 | 10 | 12 | 14 | 16 | 14.6 | 9.8 | 10 | 12 | 14 | 16 | 13.1 | 8.7 | 10 | 12 | 14 | 16 |
| | 19.3 | 12.9 | 10 | 12 | 14 | 16 | 16.7 | 11.1 | 10 | 12 | 14 | 16 | 14.9 | 10 | 10 | 12 | 14 | 16 |
| W13.1 - W16.0 | 20.7 | 13.8 | 10.4 | 12 | 14 | 16 | 18 | 12 | 10 | 12 | 14 | 16 | 16.1 | 10.7 | 10 | 12 | 14 | 16 |
| | 23.7 | 15.8 | 11.9 | 12 | 14 | 16 | 20.5 | 13.7 | 10.3 | 12 | 14 | 16 | 18.4 | 12.3 | 10 | 12 | 14 | 16 |
| W16.1 - W19.0 | 24.6 | 16.4 | 12.3 | 12 | 14 | 16 | 21.3 | 14.2 | 10.7 | 12 | 14 | 16 | 19.1 | 12.7 | 10 | 12 | 14 | 16 |
| | 28.1 | 18.8 | 14.1 | 12 | 14 | 16 | 24.4 | 16.3 | 12.2 | 12 | 14 | 16 | 21.8 | 14.6 | 10.9 | 12 | 14 | 16 |
| W19.1 - W22.0 | 28.5 | 19 | 14.3 | 12 | 14 | 16 | 24.7 | 16.5 | 12.4 | 12 | 14 | 16 | 22.1 | 14.7 | 11.1 | 12 | 14 | 16 |
| | 32.6 | 21.7 | 16.3 | 13.1 | 14 | 16 | 28.2 | 18.9 | 14.1 | 12 | 14 | 16 | 25.2 | 16.8 | 12.6 | 12 | 14 | 16 |
| W22.1 - W25.0 | 32.4 | 21.6 | 16.2 | 13 | 14 | 16 | 28.1 | 18.7 | 14.1 | 12 | 14 | 16 | 25.1 | 16.8 | 12.6 | 12 | 14 | 16 |
| | 37 | 24.7 | 18.5 | 14.8 | 14 | 16 | 32.1 | 21.4 | 16.1 | 12.9 | 14 | 16 | 28.7 | 19.1 | 14.4 | 12 | 14 | 16 |
| W25.1 - W28.0 | 36.3 | 24.2 | 18.2 | 14.5 | 14 | 16 | 31.4 | 21 | 15.7 | 12.6 | 14 | 16 | 28.1 | 18.8 | 14.1 | 12 | 14 | 16 |
| | 41.5 | 27.7 | 20.7 | 16.6 | 14 | 16 | 35.9 | 24 | 18 | 14.4 | 14 | 16 | 32.1 | 21.4 | 16.1 | 12.9 | 14 | 16 |
| W28.1 - W31.0 | 40.2 | 26.8 | 20.1 | 16.1 | 14 | 16 | 34.8 | 23.2 | 17.4 | 13.9 | 14 | 16 | 31.1 | 20.8 | 15.6 | 12.5 | 14 | 16 |
| | 45.9 | 30.6 | 23 | 18.4 | 15.3 | 16 | 39.7 | 26.5 | 19.9 | 15.9 | 14 | 16 | 35.6 | 23.7 | 17.8 | 14.2 | 14 | 16 |

TOP VALUE: $f_y = 70$ ksi BOTTOM VALUE: $f_y = 80$ ksi

REINFORCEMENT LAP SPLICE SCHEDULE NOTES:

1. ACI 318-19 WELDED PLAIN WIRE LAP SPLICE LENGTHS CORRESPONDING TO A SPECIFIED YIELD STRENGTH OF REINFORCEMENT ARE PRESENTED HERE IN INCHES.
2. FOR ALL VALUES SHOWN, THE RATIO OF $A_s(\text{provided})$ TO $A_s(\text{required})$ IS LESS THAN 2.0 PER ACI 318-19 SECTION 25.5.4.1.
3. TABULATED VALUES ARE BASED ON SAME WIRE SPACING IN BOTH DIRECTIONS, WITH REINFORCEMENT IN HARDENED NORMALWEIGHT CONCRETE.
4. VALUES PRESENTED ARE FOR THE LARGEST WIRE SIZE SHOWN IN THE WIRE GROUPING, AND FOR PREDETERMINED WIRE SPACING. SMALLER WIRE SIZES AND/OR DIFFERENT COMBINATIONS OF WIRE SPACING MAY HAVE DIFFERENT LAP SPLICE LENGTHS THAN THOSE TABULATED HERE. FOR PRECISE LAP SPLICE LENGTHS SPECIFIC TO INCREMENTAL WIRE SIZES AND SPACINGS, REFER TO THE LAP SPLICE CALCULATOR ON WRI'S WEBSITE.

**WELDED PLAIN WIRE REINFORCEMENT
LAP SPLICE SCHEDULE**

USE AND IMPLEMENTATION OF CONTENT SHOWN HERE SHALL BE AT
THE DISCRETION OF A DULY LICENSED DESIGN PROFESSIONAL.

DRAWN BY: PA

DATE: 2021

SHEET NO.

WWR.7