



$t_w$  = Fillet Weld Size (Leg Size)  
 $t_t$  = Design Throat Thickness

#### NOTES

- DESIGN CAPACITIES SHOWN ARE FOR EQUAL-LEG FILLET WELDS IN ACCORDANCE WITH AS4100 (2020) STEEL STRUCTURES.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1554.1, AS/NZS 1554.2, AS/NZS 1554.4 OR AS/NZS 1554.5
- FOR SP FILLET WELDS TO RHS WITH WALL THICKNESS <3mm, MULTIPLY THE GIVEN SP VALUES BY 0.875.
- "SP" DENOTES A STRUCTURAL PURPOSE CATEGORY WELD AS SPECIFIED IN AS/NZS 1554.1 OR AS/NZS 1554.4
- "GP" DENOTES A GENERAL PURPOSE CATEGORY WELD AS SPECIFIED IN AS/NZS 1554.1 OR AS/NZS 1554.4
- NOMINAL TENSILE STRENGTH ( $f_{uw}$ ) OF E41XX WELD CONSUMABLE = 410MPa
- NOMINAL TENSILE STRENGTH ( $f_{uw}$ ) OF E48XX WELD CONSUMABLE = 480MPa
- CALCULATION OF WELD LOADS MUST CONSIDER THE GEOMETRICAL PROPERTIES OF THE WELD GROUP.
- CORRECT INTERPRETATION AND USE OF THIS INFORMATION IS THE RESPONSIBILITY OF THE USER. TRANG TAKES NO RESPONSIBILITY FOR THE OUTCOMES OF THE USE OF THIS INFORMATION.
- FOR DESIGN OF YOUR WELDED CONNECTIONS CONTACT TRANG IMAGINEERING ON 13 000 87264 OR EMAIL [info@trang.com.au](mailto:info@trang.com.au)

Design Capacities of Equal-Leg Fillet Welds in accordance with AS4100 (2020) Steel Structures

Leg Size $t_w$ (mm)	E41XX Consumable ( $f_{uw} = 410\text{MPa}$ )		E48XX Consumable ( $f_{uw} = 480\text{MPa}$ )	
	SP Weld $\phi v_w$ (kN/mm length)	GP Weld $\phi v_w$ (kN/mm length)	SP Weld $\phi v_w$ (kN/mm length)	GP Weld $\phi v_w$ (kN/mm length)
3	0.417	0.313	0.489	0.367
4	0.557	0.417	0.652	0.489
5	0.696	0.522	0.815	0.611
6	0.835	0.626	0.978	0.733
8	1.113	0.835	1.303	0.978
10	1.392	1.044	1.629	1.222
12	1.670	1.252	1.955	1.466

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