



	Dimensions, mm	
	Standard Specimen Sheet-Type 12.5 mm Wide	Subsize Specimen 6 mm Wide
G—gage length	50.0 ± 0.1	25.0 ± 0.1
W—Width (Note 1 and Note 2)	12.5 ± 0.2	6.0 ± 0.1
T—Thickness (Note 3)	thickness of material	thickness of material
R—Radius of fillet, min	12.5	6
L—Overall length, min (Note 4)	200	100
A—Length of reduced section, min	57	32
B—Length of grip section, min (Note 5)	50	30
C—Width of grip section, approximate (Note 2 and Note 6)	20	10

NOTE 1—The ends of the reduced section shall not differ in width by more than 0.06 mm for the 50.00-mm gage length specimen or 0.025 mm for the 25.00-mm gage length specimen. There may be a gradual taper in width from the ends of the reduced section to the center, but the width at each end shall not be more than 1 % greater than the width at the center.

NOTE 2—For each of the specimens, narrower widths (*W* and *C*) may be used when necessary. In such cases the width of the reduced section should be as large as the width of the material being tested permits; however, unless stated specifically, the requirements for elongation in a product specification shall not apply when these narrower specimens are used. If the width of the material is less than *W*, the sides may be parallel throughout the length of the specimen.

NOTE 3—The dimension *T* is the thickness of the test specimen as stated in the applicable material specifications. Maximum nominal thicknesses of 12.5-mm and 6-mm wide specimens shall be 12.5 mm and 6 mm, respectively.

NOTE 4—To aid in obtaining axial loading during testing of 6-mm wide specimens, the overall length should be as large as the material will permit, up to 200 mm.

NOTE 5—It is desirable, if possible, to make the length of the grip section large enough to allow the specimen to extend into the grips a distance equal to two thirds or more of the length of the grips. If the thickness of 12.5-mm wide specimens is over 9 mm, longer grips and correspondingly longer grip sections of the specimens may be necessary to prevent failure in the grip section.

NOTE 6—The grip-end centerline of the 12.5-mm wide and 6-mm wide specimens shall coincide with the centerline of the reduced section within 0.2 mm and 0.1 mm, respectively.

FIG. 6 Rectangular Tension Test Specimens