

## T-Grooved Surface Plates for Compression Tests and Tension-Compression Tests

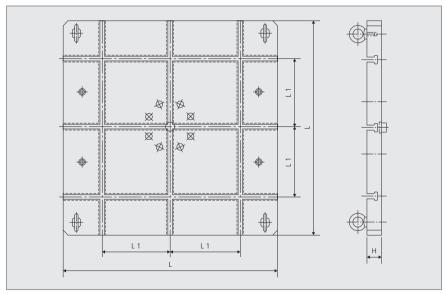
Surface plates are accessories used to test large specimens and finished objects. T-grooves enable the addition of various vices and grips to surface plates, which create flexibility in how specimens are oriented for testing. T-grooved surface plates attach directly to the table of the universal tester.

T-grooved surface plates with sizes up to 500 mm (19.7 in) by 500 mm are compatible with standard AG-X plus series and AGS-X series models. The larger 900 mm (35.4 in) by 900 mm T-grooved surface plates are for extended width AG-X plus series floor models with a width of 975 mm (38.4 in).

Surface plates are characterized further according to their applicability for tension-compression testing or compression only testing and, finally, with which capacity universal tester model they are compatible. The applicable temperature range for T-grooved surface plates is 0°C to 40°C (32°F to 104°F).

Important parameters to consider when choosing a T-grooved surface plate are the overall length of the plate (L) and the interval between grooves (L<sub>1</sub>). Together, these parameters determine the number of grooves along the length of the plate in both the horizontal and vertical directions.

T-grooved surface plates for compression tests and tension-compression tests cannot be installed on universal testers with safety covers attached.



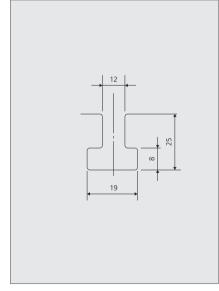


Plate Dimension

Groove Dimension

## **Specifications and Ordering Information**

	Applicable Capacity Model	Maximum Capacity				Plate Size		Number of Grooves Vertical /	Interval Between Grooves	Plate Mass	
P/N					Length	Width	Thickness				
		kN	kgf	mm (in)	mm (in)	mm (in)	mm (in)	Horizontal (Total)	mm (in)	kg (lb)	
T-Grooved Surface Plates for AG-X Plus Series Standard Models for Tension-Compression Testing											
346-51548-01	300 kN and 250 kN floor models	250	25,000	55,000	500 (19.7)	500 (19.7)	50 (2.0)	3 / 3 (6)	160 (6.3)	100 (220)	
346-51548-02	100 kN floor model	100	10,000	22,000	500 (19.7)	500 (19.7)	45 (1.8)	3 / 3 (6)	160 (6.3)	90 (198)	
346-51548-03	50 kN floor model	50	5,000	11,000	500 (19.7)	500 (19.7)	40 (1.6)	3 / 3 (6)	160 (6.3)	80 (176)	
346-51548-04	20 kN floor model	20	2,000	4,400	500 (19.7)	500 (19.7)	40 (1.6)	3 / 3 (6)	160 (6.3)	80 (176)	
346-51548-08	50 kN tabletop model	50	5,000	11,000	400 (15.7)	400 (15.7)	40 (1.6)	3 / 3 (6)	125 (4.9)	50 (110)	
346-51548-07	20 kN tabletop model	20	2,000	4,400	400 (15.7)	400 (15.7)	40 (1.6)	3 / 3 (6)	125 (4.9)	50 (110)	
346-51548-05	10 kN tabletop model	10	1,000	2,200	350 (13.8)	350 (13.8)	35 (1.4)	3 / 3 (6)	125 (4.9)	33 (73)	
T-Grooved Surface Plates for AGS-X Series Standard Models for Tension-Compression Testing											
346-51548-06	10 kN tabletop model	10	1,000	2,200	350 (13.8)	350 (13.8)	35 (1.4)	3 / 3 (6)	125 (4.9)	33 (73)	
	T-Grooved Surfac	e Plates fo	r AG-X Plu	s Series Ext	ended Wic	th Models	for Tensio	n-Compressio	n Testing		
346-51221-03	300 kN and 250 kN floor models	250	25,000	55,000	900 (35.4)	900 (35.4)	75 (3.0)	5 / 5 (10)	160 (6.3)	500 (1102)	
346-51221-02	100 kN floor model	100	10,000	22,000	900 (35.4)	900 (35.4)	60 (2.4)	5 / 5 (10)	160 (6.3)	400 (882)	
346-51221-01	50 kN and 20 kN floor model	50	5,000	11,000	900 (35.4)	900 (35.4)	45 (1.8)	5 / 5 (10)	160 (6.3)	300 (661)	
346-51221-23	300 kN and 250 kN floor models	250	25,000	55,000	900 (35.4)	900 (35.4)	75 (3.0)	3 / 3 (6)	320 (12.6)	500 (1102)	
346-51221-22	100 kN floor model	100	10,000	22,000	900 (35.4)	900 (35.4)	60 (2.4)	3 / 3 (6)	320 (12.6)	400 (882)	
346-51221-21	50 kN and 20 kN floor model	50	5,000	11,000	900 (35.4)	900 (35.4)	45 (1.8)	3 / 3 (6)	320 (12.6)	300 (661)	
346-51221-13	300 kN and 250 kN floor models	250	25,000	55,000	900 (35.4)	900 (35.4)	75 (3.0)	5 / 0 (5)	160 (6.3)	500 (1102)	
346-51221-12	100 kN floor model	100	10,000	22,000	900 (35.4)	900 (35.4)	60 (2.4)	5 / 0 (5)	160 (6.3)	400 (882)	
346-51221-11	50 kN and 20 kN floor model	50	5,000	11,000	900 (35.4)	900 (35.4)	45 (1.8)	5 / 0 (5)	160 (6.3)	300 (661)	
346-51221-33	300 kN and 250 kN floor models	250	25,000	55,000	900 (35.4)	900 (35.4)	75 (3.0)	3 / 0 (3)	320 (12.6)	500 (1102)	
346-51221-32	100 kN floor model	100	10,000	22,000	900 (35.4)	900 (35.4)	60 (2.4)	3 / 0 (3)	320 (12.6)	400 (882)	
346-51221-31	50 kN and 20 kN floor model	50	5,000	11,000	900 (35.4)	900 (35.4)	45 (1.8)	3 / 0 (3)	320 (12.6)	300 (661)	
T-Grooved Surface Plates for AG-X Plus Series Extended Width Models for Compression Testing											
346-51220-03	300 kN and 250 kN floor models	250	25,000	55,000	900 (35.4)	900 (35.4)	75 (3.0)	5 / 5 (10)	160 (6.3)	450 (992)	

					900	900	60	5/5	160	360
346-51220-02	100 kN floor model	100	10,000	22,000	(35.4)	(35.4)	(2.4)	(10)	(6.3)	(794)
346-51220-01	50 kN and 20 kN floor model	50	5,000	11,000	900 (35.4)	900 (35.4)	45 (1.8)	5 / 5 (10)	160 (6.3)	260 (573)
346-51220-23	300 kN and 250 kN floor models	250	25,000	55,000	900 (35.4)	900 (35.4)	75 (3.0)	3 / 3 (6)	320 (12.6)	450 (992)
346-51220-22	100 kN floor model	100	10,000	22,000	900 (35.4)	900 (35.4)	60 (2.4)	3 / 3 (6)	320 (12.6)	360 (794)
346-51220-21	50 kN and 20 kN floor model	50	5,000	11,000	900 (35.4)	900 (35.4)	45 (1.8)	3 / 3 (6)	320 (12.6)	260 (573)
346-51220-13	300 kN and 250 kN floor models	250	25,000	55,000	900 (35.4)	900 (35.4)	75 (3.0)	5 / 0 (5)	160 (6.3)	450 (992)
346-51220-12	100 kN floor model	100	10,000	22,000	900 (35.4)	900 (35.4)	60 (2.4)	5 / 0 (5)	160 (6.3)	360 (794)
346-51220-11	50 kN and 20 kN floor model	50	5,000	11,000	900 (35.4)	900 (35.4)	45 (1.8)	5 / 0 (5)	160 (6.3)	260 (573)
346-51220-33	300 kN and 250 kN floor models	250	25,000	55,000	900 (35.4)	900 (35.4)	75 (3.0)	3 / 0 (3)	320 (12.6)	450 (992)
346-51220-32	100 kN floor model	100	10,000	22,000	900 (35.4)	900 (35.4)	60 (2.4)	3 / 0 (3)	320 (12.6)	360 (794)
346-51220-31	50 kN and 20 kN floor model	50	5,000	11,000	900 (35.4)	900 (35.4)	45 (1.8)	3 / 0 (3)	320 (12.6)	260 (573)

