

Nominal Diameter d		φ1	φ1.5	φ2	φ2.5	φ3	φ3.5	φ4	φ4.5	φ5	φ6	φ8	φ10	φ12	φ13
a		0.15	0.25	0.35	0.40	0.50	0.60	0.65	0.80	0.90	1.20	2.00	2.00	2.00	2.00
d	min	1.20	1.70	2.30	2.80	3.30	3.80	4.40	4.90	5.40	6.40	8.50	10.50	12.50	13.50
	max	1.30	1.80	2.40	2.90	3.50	4.00	4.60	5.10	5.60	6.70	8.80	10.80	12.80	13.80
d ₂	≈	0.80	1.10	1.50	1.80	2.10	2.30	2.80	2.90	3.40	3.90	5.50	6.50	7.50	8.50
s		0.20	0.30	0.40	0.50	0.60	0.75	0.80	1.00	1.00	1.25	1.50	2.00	2.50	2.50
Minimum shear strength, single (kN)		0.35	0.79	1.41	2.19	3.16	4.53	5.62	7.68	8.77	13.02	21.38	35.08	52.07	57.55
Minimum Double Shear,kN		0.70	1.58	2.82	4.38	6.32	9.06	11.24	15.36	17.54	26.04	42.76	70.16	104.10	115.10

Nominal Diameter d		Φ14	Φ16	Φ18	Φ20	Φ21	Φ25	Φ28	Φ30	Φ32	Φ35	Φ38	Φ40	Φ45	Φ50
a		2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00
d	min	14.40	16.50	18.50	20.50	21.50	25.50	28.50	30.50	32.50	35.50	38.50	40.50	45.50	50.50
	max	14.80	16.80	18.90	20.90	21.90	25.90	28.90	30.90	32.90	35.90	38.90	40.90	45.90	50.90
d ₂	≈	8.50	10.50	11.50	12.50	13.50	15.50	17.50	18.50	20.50	21.50	23.50	25.50	28.50	31.50
s		3.00	3.00	3.50	4.00	4.00	5.00	5.50	6.00	6.00	7.00	7.50	7.50	8.50	9.50
Minimum shear strength, single (kN)		72.36	85.51	111.27	140.32	149.09	219.25	271.32	315.72	342.03	429.73	501.53	534.42	680.22	843.57
Minimum Double Shear,kN		144.70	171.00	222.50	280.60	298.20	438.50	542.60	631.40	684.00	859.00	1003.00	1068.00	1360.00	1685.00