

Strength properties of cabinet "U" handles in plastic

sorted by ascending standard numbers



Impact strength
 $S_1 = P \times h_1$



Impact strength
 $S_2 = P \times h_2$



Breaking load K_1



Breaking load K_2

Extensive test series were carried out in order to obtain strength details of the plastic cabinet "U" handles listed below. The results provide information on the impact strength and the tensile strength under normal stress loads in two stress load directions.

The impact strength S_1 and S_2 was determined using the outline drawing shown opposite:

A cylindrical steel element rounded at the tip (weight 0.680 kg) repeatedly hits the handle, with the height of drop increased by 0.1 mm with every drop. Failure occurs at the specified S values.

The details given on strength are non-binding guide values without any liability. In general, they do not constitute a warranty of quality. The user must determine from case to case if a product is suitable for the envisaged use.

Finger handles GN 224.3 → Page XYZ

Größe	9	10						
S₁ in J	6	10						
S₂ in J	-	-						
K₁ in N	-	-						
K₂ in N	2300	2300						

Ledge handles GN 130 → Page XYZ

Größe	100-M6	100-B4,5						
S₁ in J	-	-						
S₂ in J	-	-						
K₁ in N	3000	700						
K₂ in N	1900	900						

Ledge handles GN 130.2 → Page XYZ

Größe	100-M4	100-B4,5						
S₁ in J	-	-						
S₂ in J	-	-						
K₁ in N	3500	3000						
K₂ in N	2800	2800						

Cabinet "U" handles GN 365 → Page XYZ

Größe	132							
S₁ in J	15							
S₂ in J	7							
K₁ in N	2100							
K₂ in N	2600							

Cabinet "U" handles GN 525 → Page XYZ

Größe	86	117	179					
S₁ in J	5	6	7					
S₂ in J	6	10	8					
K₁ in N	2500	4000	3000					
K₂ in N	2500	5000	2000					

Cabinet "U" handles GN 528-PA → Page XYZ

Größe	94	117	122	132	140	160	179	235
S₁ in J	15	20	25	27	27	29	20	40
S₂ in J	8	13	14	14	20	20	20	34
K₁ in N	3500	4500	3700	3500	3400	3300	2800	3200
K₂ in N	2500	2500	2500	2500	2600	2700	2700	3500

Cabinet "U" handles GN 528-PP → Page XYZ								
Größe	94	117	122	132	140	160	179	235
S ₁ in J	8	10	12	12	13	15	16	17
S ₂ in J	3	4	5	5	6	7	8	11
K ₁ in N	1700	2000	1600	2000	1800	1800	1800	1700
K ₂ in N	1300	1500	1500	1300	1300	1300	1300	1700

Cabinet "U" handles GN 528-SV → Page XYZ					Cabinet "U" handles GN 528-ESD → Page XYZ		
Größe	94	117	132	179	Größe	94	117
S ₁ in J	9	10	12	20	S ₁ in J	15	20
S ₂ in J	5	8	8	13	S ₂ in J	8	13
K ₁ in N	1750	3500	3000	1400	K ₁ in N	3500	4500
K ₂ in N	1700	2200	1800	2100	K ₂ in N	2500	2500

Cabinet "U" handles GN 528.1-PA → Page XYZ						
Größe	94	105	117	132	179 - M8	179 - M10
S ₁ in J	10	10	12	18	24	24
S ₂ in J	6	7	9	16	30	30
K ₁ in N	2000	2000	3000	2000	3000	3200
K ₂ in N	1800	1800	1600	1800	2300	2500

Cabinet "U" handles GN 528.1-PP → Page XYZ							
Größe	117						
S ₁ in J	9						
S ₂ in J	4						
K ₁ in N	1900						
K ₂ in N	950						

Cabinet "U" handles GN 528.2 → Page XYZ					
Größe	94	117	140	160	179
S ₁ in J	16	17	27	22	20
S ₂ in J	6	7	20	15	20
K ₁ in N	3500	4500	3400	3300	2800
K ₂ in N	2500	2500	2600	2700	2700

Cabinet "U" handles GN 528.3 → Page XYZ						
Größe	94	117	122	140	150	160
S ₁ in J	15	20	25	27	27	22
S ₂ in J	8	13	14	20	15	15
K ₁ in N	3500	4500	3700	3400	3000	3300
K ₂ in N	2500	2500	2500	2600	2600	2700

Cabinet "U" handles GN 528.4 → Page XYZ							
Größe	117	179					
S ₁ in J	11	24					
S ₂ in J	9	30					
K ₁ in N	2200	3400					
K ₂ in N	1400	2600					

Cabinet "U" handles GN 625 → Page XYZ				
Größe	86	117	179	300
S ₁ in J	50	50	27	25
S ₂ in J	120	120	80	75
K ₁ in N	4000	4000	3000	2000
K ₂ in N	7000	5000	3500	3000



Cabinet "U" handles GN 627 → Page XYZ									
Größe	88	120							
S ₁ in J	11	11							
S ₂ in J	9	9							
K ₁ in N	2000	2000							
K ₂ in N	2200	2200							

Cabinet "U" handles GN 628 → Page XYZ									
Größe	94	117	132	150	179				
S ₁ in J	8	10	11	12	16				
S ₂ in J	3	4	4	5	9				
K ₁ in N	2000	2700	2700	2700	2200				
K ₂ in N	1500	1800	1800	1500	1500				

Cabinet "U" handle GN 628.1 → Page XYZ									
Größe	117								
S ₁ in J	10								
S ₂ in J	4								
K ₁ in N	2700								
K ₂ in N	1800								

Cabinet "U" handles GN 628.4 → Page XYZ									
Größe	132								
S ₁ in J	35								
S ₂ in J	8								
K ₁ in N	2800								
K ₂ in N	2900								

Cabinet "U" handles GN 628.5 → Page XYZ									
Größe	132								
S ₁ in J	31								
S ₂ in J	13								
K ₁ in N	4400								
K ₂ in N	4400								

Schalengriffe GN 630 → Page XYZ									
Größe	114								
S ₁ in J	-								
S ₂ in J	-								
K ₁ in N	90								
K ₂ in N	-								

Cabinet "U" handles GN 630.1 → Page XYZ									
Größe	114								
S ₁ in J	-								
S ₂ in J	-								
K ₁ in N	90								
K ₂ in N	-								

Cabinet "U" handles GN 725 → Page XYZ									
Größe	86	94	117	120	132	150	179	235	300
S ₁ in J	12	10	8	8	8	8	11	11	18
S ₂ in J	6	8	12	12	12	13	13	13	11
K ₁ in N	2400	2300	2250	2250	2200	2000	1900	1900	2000
K ₂ in N	2400	2300	2650	2650	2450	2550	2000	2000	2000

Cabinet "U" handles GN 725.1 → Page XYZ

Größe	86	117	132	179					
S ₁ in J	11	11	11	11					
S ₂ in J	9	9	9	13					
K ₁ in N	3000	2000	1900	1900					
K ₂ in N	2200	2800	1900	1900					

Cabinet "U" handles GN 767 → Page XYZ

Größe	300	500	700	1000					
L ₂ in N	1500	1500	1500	1500					
K ₂ in N	7800	4800	3000	2600					

Cabinet "U" handles GN 767.1 → Page XYZ

Größe	300	500	700	1000					
L ₂ in N	1500	1500	1500	1500					
K ₂ in N	7800	4800	3000	2600					

