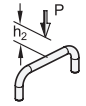


# Strength Properties of Cabinet U-Handles in Plastic

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.

## Ledge Handles GN 130 → Page 218

Size	100-M6	100-B4,5						
$S_1$ in J	-	-						
$S_2$ in J	10	7						
$K_1$ in N	3000	700						
$K_2$ in N	1900	900						

## Ledge Handles GN 130.2 → Page 219

Size	100-M4	100-B4,5						
$S_1$ in J	-	-						
$S_2$ in J	3	3						
$K_1$ in N	3500	3000						
$K_2$ in N	2800	2800						

## Ledge Handles GN 130.3 → Page XYZ

Size	108-M5	108-B4,5						
$S_1$ in J	-	-						
$S_2$ in J	6	6						
$K_1$ in N	2400	1600						
$K_2$ in N	1400	1300						

## Finger Handles GN 224.3 → Page 171

Size	9	10						
$S_1$ in J	6	10						
$S_2$ in J	-	-						
$K_1$ in N	-	-						
$K_2$ in N	2300	2300						

## Arch Handles GN 365 → Page 168

Size	132							
$S_1$ in J	15							
$S_2$ in J	7							
$K_1$ in N	2100							
$K_2$ in N	2600							

## Cabinet U-Handles GN 525 → Page 119

Size	86	117	179					
$S_1$ in J	5	6	7					
$S_2$ in J	6	10	8					
$K_1$ in N	2500	4000	3000					
$K_2$ in N	2500	5000	2000					

**Cabinet U-Handles GN 528-PA → Page 120**

Size	94	117	122	132	140	160	179	235
S <sub>1</sub> in J	15	20	25	27	27	29	20	40
S <sub>2</sub> in J	8	13	14	14	20	20	20	34
K <sub>1</sub> in N	3500	4500	3700	3500	3400	3300	2800	3200
K <sub>2</sub> in N	2500	2500	2500	2500	2600	2700	2700	3500

**Cabinet U-Handles GN 528-PP → Page 120**

Size	94	117	122	132	140	160	179	235
S <sub>1</sub> in J	8	10	12	12	13	15	16	17
S <sub>2</sub> in J	3	4	5	5	6	7	8	11
K <sub>1</sub> in N	1700	2000	1600	2000	1800	1800	1800	1700
K <sub>2</sub> in N	1300	1500	1500	1300	1300	1300	1300	1700

**Cabinet U-Handles GN 528-SV → Page 120**

Size	94	117	132	179	Size	94	117
S <sub>1</sub> in J	9	10	12	20	S <sub>1</sub> in J	15	20
S <sub>2</sub> in J	5	8	8	13	S <sub>2</sub> in J	8	13
K <sub>1</sub> in N	1750	3500	3000	1400	K <sub>1</sub> in N	3500	4500
K <sub>2</sub> in N	1700	2200	1800	2100	K <sub>2</sub> in N	2500	2500

**Cabinet U-Handles GN 528-ESD → Page 120****Cabinet U-Handles GN 528.1-PA → Page 121**

Size	94	105	117	132	179 - M8	179 - M10
S <sub>1</sub> in J	10	10	12	18	24	24
S <sub>2</sub> in J	6	7	9	16	30	30
K <sub>1</sub> in N	2000	2000	3000	2000	3000	3200
K <sub>2</sub> in N	1800	1800	1600	1800	2300	2500

**Cabinet U-Handles GN 528.1-PP → Page 121**

Size	117
S <sub>1</sub> in J	9
S <sub>2</sub> in J	4
K <sub>1</sub> in N	1900
K <sub>2</sub> in N	950

**Cabinet U-Handles GN 528.2 → Page 122**

Size	94	117	122	140	150	160	179
S <sub>1</sub> in J	16	17	25	27	27	22	20
S <sub>2</sub> in J	6	7	14	20	15	15	20
K <sub>1</sub> in N	3500	4500	3700	3400	3000	3300	2800
K <sub>2</sub> in N	2500	2500	2500	2600	2600	2700	2700

**Cabinet U-Handles GN 528.3 → Page 122**

Size	94	117	122	140	150	160
S <sub>1</sub> in J	15	20	25	27	27	22
S <sub>2</sub> in J	8	13	14	20	15	15
K <sub>1</sub> in N	3500	4500	3700	3400	3000	3300
K <sub>2</sub> in N	2500	2500	2500	2600	2600	2700

**Cabinet U-Handles GN 528.4 → Page 121**

Size	117	179
S <sub>1</sub> in J	11	24
S <sub>2</sub> in J	9	30
K <sub>1</sub> in N	2200	3400
K <sub>2</sub> in N	1400	2600



**Cabinet U-Handles GN 625** → Page 118

<b>Size</b>	<b>86</b>	<b>117</b>	<b>179</b>	<b>300</b>					
S <sub>1</sub> in J	50	50	27	25					
S <sub>2</sub> in J	120	120	80	75					
K <sub>1</sub> in N	4000	4000	3000	2000					
K <sub>2</sub> in N	7000	5000	3500	3000					

**Cabinet U-Handles GN 627** → Page 141

<b>Size</b>	<b>88</b>	<b>120</b>							
S <sub>1</sub> in J	11	11							
S <sub>2</sub> in J	9	9							
K <sub>1</sub> in N	2000	2000							
K <sub>2</sub> in N	2200	2200							

**Cabinet U-Handles GN 628** → Page 133

<b>Size</b>	<b>94</b>	<b>117</b>	<b>120</b>	<b>132</b>	<b>150</b>	<b>179</b>			
S <sub>1</sub> in J	8	10	10	11	12	16			
S <sub>2</sub> in J	3	4	4	4	5	9			
K <sub>1</sub> in N	2000	2700	2700	2700	2700	2200			
K <sub>2</sub> in N	1500	1800	1800	1800	1500	1500			

**Cabinet U-Handle GN 628.1** → Page 134

<b>Size</b>	<b>117</b>	<b>179</b>							
S <sub>1</sub> in J	10	16							
S <sub>2</sub> in J	4	9							
K <sub>1</sub> in N	2700	2200							
K <sub>2</sub> in N	1800	1500							

**Cabinet U-Handles GN 628.4** → Page 136

<b>Size</b>	<b>132</b>								
S <sub>1</sub> in J	35								
S <sub>2</sub> in J	8								
K <sub>1</sub> in N	2800								
K <sub>2</sub> in N	2900								

**Cabinet U-Handles GN 628.5** → Page 138

<b>Size</b>	<b>132</b>								
S <sub>1</sub> in J	31								
S <sub>2</sub> in J	13								
K <sub>1</sub> in N	4400								
K <sub>2</sub> in N	4400								

**Cabinet U-Handles GN 629** → Seite XYZ

<b>Größe</b>	<b>117</b>								
S <sub>1</sub> in J	20								
S <sub>2</sub> in J	30								
K <sub>1</sub> in N	3000								
K <sub>2</sub> in N	2500								

**Cabinet U-Handles GN 629.1** → Seite XYZ

<b>Größe</b>	<b>117</b>								
S <sub>1</sub> in J	10								
S <sub>2</sub> in J	30								
K <sub>1</sub> in N	2800								
K <sub>2</sub> in N	2500								

**Ledge Handles GN 630** → Page 217

<b>Size</b>	<b>114</b>									
<b>S<sub>1</sub> in J</b>	-									
<b>S<sub>2</sub> in J</b>	-									
<b>K<sub>1</sub> in N</b>	90									
<b>K<sub>2</sub> in N</b>	-									

**Cabinet U-Handles GN 630.1** → Page 116

<b>Size</b>	<b>114</b>									
<b>S<sub>1</sub> in J</b>	-									
<b>S<sub>2</sub> in J</b>	-									
<b>K<sub>1</sub> in N</b>	90									
<b>K<sub>2</sub> in N</b>	-									

**Cabinet U-Handles GN 725** → Page 110

<b>Size</b>	<b>86</b>	<b>94</b>	<b>117</b>	<b>120</b>	<b>132</b>	<b>150</b>	<b>160</b>	<b>179</b>	<b>235</b>	<b>300</b>
<b>S<sub>1</sub> in J</b>	12	10	8	8	8	8	8	11	11	18
<b>S<sub>2</sub> in J</b>	6	8	12	12	12	13	13	13	13	11
<b>K<sub>1</sub> in N</b>	2400	2300	2250	2250	2200	2000	2000	1900	1900	2000
<b>K<sub>2</sub> in N</b>	2400	2300	2650	2650	2450	2550	2250	2000	2000	2000

**Cabinet U-Handles GN 725-MDB** → Page 111

<b>Size</b>	<b>117</b>	<b>179</b>								
<b>S<sub>1</sub> in J</b>	8	11								
<b>S<sub>2</sub> in J</b>	12	15								
<b>K<sub>1</sub> in N</b>	2500	2000								
<b>K<sub>2</sub> in N</b>	4500	3000								

**Cabinet U-Handles GN 725-VDB** → Page 111

<b>Size</b>	<b>117</b>	<b>179</b>								
<b>S<sub>1</sub> in J</b>	8	11								
<b>S<sub>2</sub> in J</b>	12	15								
<b>K<sub>1</sub> in N</b>	3500	2500								
<b>K<sub>2</sub> in N</b>	4500	3000								

**Cabinet U-Handles GN 725.1** → Page 112

<b>Size</b>	<b>86</b>	<b>117</b>	<b>132</b>	<b>179</b>						
<b>S<sub>1</sub> in J</b>	11	11	11	11						
<b>S<sub>2</sub> in J</b>	9	9	9	13						
<b>K<sub>1</sub> in N</b>	3000	2000	1900	1900						
<b>K<sub>2</sub> in N</b>	2200	2800	1900	1900						

**Gripping Trays GN 739** → Page 228

<b>Size</b>	<b>115</b>									
<b>S<sub>1</sub> in J</b>	-									
<b>S<sub>2</sub> in J</b>	-									
<b>K<sub>1</sub> in N</b>	3500									
<b>K<sub>2</sub> in N</b>	3500									



**Cabinet U-Handles GN 767 (Aluminum Pipe / Plastic End Caps) → Page 194**

Size	28-300	28-400	28-500	28-600	28-700		
S <sub>1</sub> in J	-	-	-	-	-		
S <sub>2</sub> in J	2400	2000	1800	1200	900		
K <sub>1</sub> in N	-	-	-	-	-		
K <sub>2</sub> in N	2800	2300	2000	1500	1200		
Size	35-300	35-400	35-500	35-600	35-700	35-1000	
S <sub>1</sub> in J	-	-	-	-	-	-	
S <sub>2</sub> in J	3000	2700	2500	1900	1900	1200	
K <sub>1</sub> in N	-	-	-	-	-	-	
K <sub>2</sub> in N	3100	2800	2600	2100	2100	1400	

**Cabinet U-Handles GN 767.1 (Aluminum Pipe / Plastic End Caps) → Page 194**

Size	28-300	28-400	28-500	28-600	28-700		
S <sub>1</sub> in J	-	-	-	-	-		
S <sub>2</sub> in J	2400	2000	1800	1200	900		
K <sub>1</sub> in N	-	-	-	-	-		
K <sub>2</sub> in N	2800	2300	2000	1500	1200		
Size	35-300	35-400	35-500	35-600	35-700	35-1000	
S <sub>1</sub> in J	-	-	-	-	-	-	
S <sub>2</sub> in J	3000	2700	2500	1900	1900	1200	
K <sub>1</sub> in N	-	-	-	-	-	-	
K <sub>2</sub> in N	3100	2800	2600	2100	2100	1400	

**Folding Handles GN 825.1 → Page 175**

Size	90						
S <sub>1</sub> in J	-						
S <sub>2</sub> in J	-						
K <sub>1</sub> in N	1700						
K <sub>2</sub> in N	2500						

**Folding Handles with Recessed Tray GN 825.2 → Page 178**

Size	90						
S <sub>1</sub> in J	-						
S <sub>2</sub> in J	-						
K <sub>1</sub> in N	1650						
K <sub>2</sub> in N	2400						