



## المتحدة للصناعات التعدينية United Mining Industries

# Fire Rst. Plasterboard Standards compared with ASTM C1396 and DIN EN 520 Standard Limits

### 1- DIMENSIONS

The Specimens	UMI Specifications Tolerances (mm)	ASTM C1396 Specifications Tolerances (mm)	DIN EN 520 Specifications Tolerances (mm)
<b>Thickness (mm)</b> 9.5 , 12.5 , 15 , 16 , 18	± 0.3	± 0.4	± 0.5
<b>Length</b> (1800 mm – 4000 mm)	0 to - 4	0 to - 6	0 to - 5
<b>Width</b> (1200 mm , 1220 mm)	0 to - 3	0 to - 3	0 to - 4
<b>Squareness (mm)</b>	≤ 2	≤ 3	≤ 2.5

### 2- FLEXURAL STRENGTH

The Specimens thickness	UMI Specifications ( N )		ASTM C1396 Specifications ( N )		DIN EN 520 Specifications ( N )	
	L	T	L	T	L	T
<b>9.5 mm</b>	≥ 435	≥ 190	≥ 356	≥ 133	≥ 400	≥ 125
<b>12.5 mm</b>	≥ 575	≥ 235	≥ 489	≥ 178	≥ 550	≥ 210
<b>15 mm</b>	≥ 700	≥ 265	≥ 667	≥ 222	≥ 650	≥ 225
<b>16 mm</b>	≥ 735	≥ 325	≥ 667	≥ 222	≥ 688	≥ 256
<b>18 mm</b>	≥ 805	≥ 345	≥ 756	≥ 267	≥ 774	≥ 288

### 3- HARDNESS

The Specimens	UMI Specifications ( N )	ASTM C1396 Specifications ( N )	DIN EN 520 Specifications ( N )
<b>CORE</b>	≥ 83.4	≥ 67	Not Specified
<b>END</b>	≥ 78.53	≥ 67	Not Specified
<b>EDGE</b>	≥ 80.46	≥ 67	Not Specified

### 4- NAIL PULL

The Specimens thickness	UMI Specifications ( N )	ASTM C1396 Specifications ( N )	DIN EN 520 Specifications ( N )
<b>9.5 mm</b>	285	267	Not Specified
<b>12.5 mm</b>	375	356	Not Specified
<b>15 mm</b>	430	400	Not Specified
<b>16 mm</b>	435	400	Not Specified
<b>18 mm</b>	485	445	Not Specified

\* The test results and pertinent information are for UMI Plasterboards of the types: - Regular , Fire Resistant , Moisture Resistant , Fire & Moisture Resistant .

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