

PENN ELCOM DATASHEET

STUCCO ALUMINIUM LAMINATED PANELS

| Chemical Composition | EN AW-1050A [Al 99,5] | | | | | | | |
|--------------------------|-----------------------|----------------|-----------------|----------------|----------------|----------------|-------------|-------|
| | Si | Fe | Cu | Mn | Mg | Zn | Others | Total |
| | Max 0,25 | Max 0,40 | Max 0,05 | Max 0,05 | Max 0,05 | Max 0,07 | Max 0,03 | - |
| Temper | H14 / H24 | | | | | | | |
| Thickness (mm) | 0,20 - 4 | | | | | | | |
| Width (mm) | 2100 (max) | | | | | | | |
| Thickness Tolerance (mm) | Surface | Thickness (mm) | Tolerances (mm) | | | | | |
| | | | <1000 | >1001 <1250 | >1251 <1600 | >1601 <2100 | | |
| | Flat | 0,20 - 0,4 | ± 0,010 | ± 0,020 | ± 0,025 | ± 0,010 | | |
| | | 0,41 - 0,5 | ± 0,015 | ± 0,020 | ± 0,025 | ± 0,015 | | |
| | | 0,51 - 0,6 | ± 0,015 | ± 0,025 | ± 0,030 | ± 0,015 | | |
| | | 0,61 - 0,8 | ± 0,015 | ± 0,025 | ± 0,035 | ± 0,015 | | |
| | | 0,81 - 1,0 | ± 0,020 | ± 0,030 | ± 0,040 | ± 0,020 | | |
| | | 1,01 - 1,2 | ± 0,020 | ± 0,035 | ± 0,045 | ± 0,020 | | |
| | | 1,21 - 1,5 | ± 0,025 | ± 0,045 | ± 0,050 | ± 0,025 | | |
| | | 1,51 - 1,8 | ± 0,030 | ± 0,050 | ± 0,055 | ± 0,030 | | |
| | | 1,81 - 2,0 | ± 0,030 | ± 0,055 | ± 0,060 | ± 0,030 | | |
| | | 2,01 - 2,5 | ± 0,035 | ± 0,060 | ± 0,065 | ± 0,035 | | |
| | | 2,51 - 3,0 | ± 0,040 | ± 0,065 | ± 0,075 | ± 0,040 | | |
| | | 3,01 - 3,5 | ± 0,050 | ± 0,075 | ± 0,085 | ± 0,050 | | |
| | | 3,51 - 4,0 | ± 0,075 | ± 0,100 | ± 0,110 | ± 0,075 | | |
| | Stucco | 0,25 - 0,40 | ± 0,010 | ± 0,010 | ± 0,010 | ± 0,010 | | |
| 0,41 - 0,80 | | ± 0,015 | ± 0,015 | ± 0,015 | ± 0,015 | | | |
| 0,81 - 1,00 | | ± 0,020 | ± 0,020 | ± 0,020 | ± 0,020 | | | |

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| Width Tolerance (mm) | Thickness (mm) | Width (mm) | | | | | |
|-----------------------|--|--------------------------|-------------------------|--|----------------|----------------|----------------|
| | | <100 | >101 <300 | >301 <500 | >501 <1250 | >1251 <1650 | >1651 <2100 |
| Width Tolerance (mm) | 0,17 - 0,6 | +0,3 | +0,4 | +0,6 | +1 | +1 | +2 |
| | 0,61 - 1,0 | +0,3 | +0,4 | +0,6 | +1 | +1 | +2 |
| | 1,01 - 2,0 | +0,4 | +0,7 | +1,2 | +1,5 | +2,5 | +3 |
| | 2,1 - 3,0 | +0,5 | +0,7 | +1,5 | +2 | +2 | +2 |
| | 3,1 - 4,0 | - | +0,7 | +0,8 | +1,5 | +1,5 | +2 |
| Length Tolerance (mm) | Thickness (mm) | Length (mm) | | | | | |
| | | <1000 | >1001 <2000 | >2001 <3000 | >3001 <4900 | | |
| | 0,17 - 3,00 | +1 | +2 | +3 | +4 | | |
| 3,01 - 4,00 | +2 | +3 | +4 | +5 | | | |
| Flatness Tolerance | Specified Thickness (mm) | Total Deviation (%) | | Partial Deviation (%) for a chord of at least 300 mm | | | |
| | | On Length d_{max}/L | On Width d_{max}/W | | | | |
| | 0,2 - 0,5 | By agreement | By agreement | By agreement | | | |
| | 0,51 - 3,0 | +0,4 | +0,5 | +0,5 | | | |
| 3,10 - 4,0 | +0,3 | +0,4 | +0,4 | | | | |
| Surface | *Surface oiliness request is subject to agreement | | | | | | |
| D (mm) | 508 *Different ID request is subject to agreement | | | | | | |
| OD (mm) | Max 1750 | | | | | | |
| Core | With inner core (Masuralı) / (Cardboard - Karton) , without inner core (Masurasız) | | | | | | |

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| Mechanical Properties | Temper | Thickness (mm) | Tensile Strength (MPa) | | Yield Strength (MPa) | | % Elongation |
|---------------------------------|---|----------------|------------------------|-----|----------------------|-----|--------------|
| | | | Min | Max | Min | Max | A50 mm |
| | H14 | H14 | 0,20 - 0,50 | 105 | 145 | 85 | - |
| 0,51 - 1,50 | | | 105 | 145 | 85 | - | 2 |
| 1,51 - 3,00 | | | 105 | 145 | 85 | - | 4 |
| 3,00 - 4,00 | | | 105 | 145 | 85 | - | 5 |
| H24 | | 0,20 - 0,50 | 105 | 145 | 75 | - | 3 |
| | | 0,51 - 1,50 | 105 | 145 | 75 | - | 4 |
| | | 1,51 - 3,00 | 105 | 145 | 75 | - | 5 |
| | | 3,00 - 4,00 | 105 | 145 | 75 | - | 8 |
| Packaging | According to customer demands and transportation type | | | | | | |
| % Aluminium Recycling | 100 | | | | | | |
| % Packaging Equipment Recycling | | | | | | | |

(*)Total heavy metals, (Pb+Cr+Cd+Hg) are below 100 ppm.

Different demands and the topics are not referred in here are subject to agreement . All others are subject to the last version of EN 485-1/2/4 , EN 573-1/2/3.

Rate of recycling for Al and packaging equipment are given due process of ISO-14001.

| | PREPARATION APPROVAL | ENFORCEMENT APPROVAL |
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