Schneider Electric INDIA	Department	Issued date	21/05/2011	Rev. no.	Mat. Spec. no.
	Design	Revised date	08.02.2013	01	MS/D/102
	Subject: SPECIFICATION FOR ALUMINIUM SHEET				

SCOPE: This specification covers the requirements for AL100- H24/AL1100-H24 grade Aluminum Alloys Sheet components for High Power Busway. Environmental

II REFERENCE STANDARD : SBG Drg. # 45100-043.

III MATERIAL PROPERTIES

a) Physical Properties: -

 Material shall be clean, smooth, & free from burr, scratches, water logging, oil stains and harmful defects.

ii) Ultimate Tensile Strength = $115\sim145$ MPa ρ B iii) Yield Strength = >=50 MPa ρ B iv) Elongation = >=7 %

v) Hardness $= 42 \sim 47$

b) Chemical Composition:-

Cu = 0.05~0.2 % i) ii) Mg = 0.05 % Max.iii) Si & Fe = 0.95 % Max. = 0.1 % Max. iv) Zn Others = 0.15 % Max. V) = 99.0 % Min. vi)

c) Electrical Properties:-

- i) Conductivity Min 59% IACS
- d) Dimensional Properties:-
- 1) THICKNESS & TOLERANCE ON THICKNESS: 1.6 (+/-) 0.1mm
- 2) WIDTH & TOLERANCE ON OVERALL WIDTH: 1219.2 (+/-) 3.18mm
- 3) LENGTH & TOLERANCE ON LENGTH: 3276.6 (+/-) 3.96mm
- 4) SQUARENESS TOLERANCE 11,1MM (Refer drawing # 45100-043).
- 5) BOW: 4.75MM (Refer drawing # 45100-043)

IV DESCRIPTION OF MANUFACTURING PROCESS: Cold Drawing

V TESTING METHODS.

a) Dimensional: To be done by suitable instruments.

b) Conductivity: Conductivity shall be checked with conductivity meter

c) Bend Test : The bend test shall be carried out on a sheet through specimen of suitable length. The specimen shall be bent through 90 degree and bend radius shall be minimum equal to the thickness of the bar. The

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			Approved by TRS
Changed By: KNC	Checked By: TRS	Approved By: SRK	

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specimen shall be deemed to have passed the test if there are no cracks observed on outer bend surface.

VI MODE OF PACKING & SUPPLY

Material shall be supplied in weather-proof packing. Provide polyethylene sheet/Paper between two aluminum sheets. Each package shall bear description, grade condition, batch no. and size of the material.

INDAL ALUMINIUM LIMPTED
(Relling Mill Division)
k.i.A.D.B. Industrial Area
Valenalli Village, Debbespet
BANGALORE-562 111
Ph. 080-27735031/27735003

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