

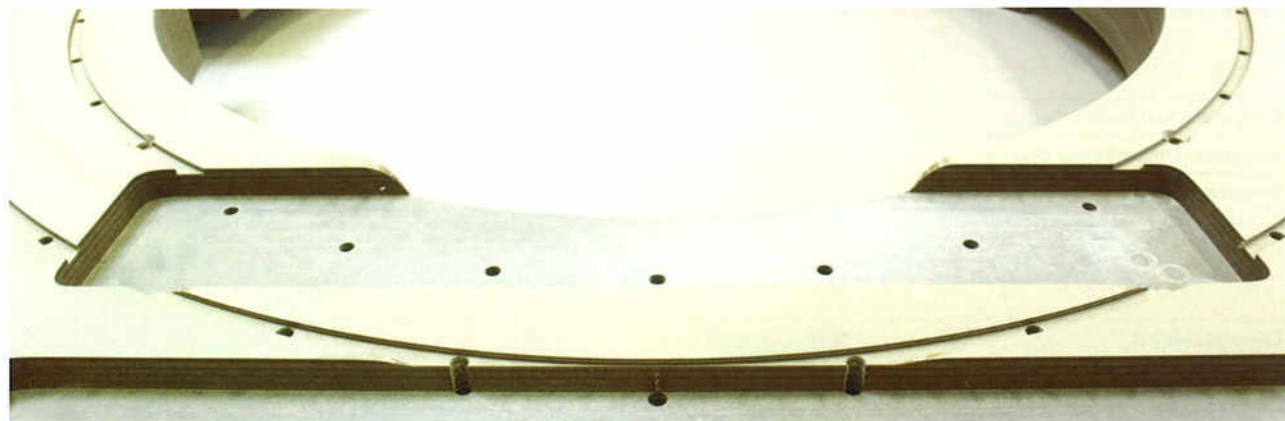
TRANSFORMERBOARD T IV – LAMINATED MATERIAL WITH GREATER THICKNESS

Transformerboard T IV, with greater thickness, is a laminated board. Typical applications of laminated Transformerboard T IV are pressure rings, static rings, beams, clamping plates and support strips etc. Laminating of Transformerboard T IV precompressed / hot-press dried will result in a higher thickness than 8.0 mm. The range of thickness of laminated Transformerboard T IV

begins from 9.0 mm up to 120.0 mm. Laminated material is, like Transformerboard T IV, dimensionally stable and offers highest mechanical and electrical strength. The adhesives in use are casein glue and polyester resin; casein is aqueous, polyester is nonaqueous. The development and in-line installation of a highly sensitive metal detector guarantees board free from metallic particles.

TECHNICAL DATA

The technical data reflect typical results of routine tests performed in WEIDMANN laboratories according to IEC Standards 60641-2 and 60243-1. These typical values do not constitute specifications of WEIDMANN products.



Clamping ring



Laminated board notched

Thickness	Master size	Standard size	Tolerance (thickness %)	Norm		
9.0 mm – 120.0 mm ^{*/**}	4000 x 1500 mm	4000 x 1500 mm	± 5	IEC 60763-3-1, Type LB 3.1A.1*		
		4000 x 750 mm	± 4			
		4000 x 500 mm	± 4	IEC 60763-3-1, Type LB 3.1A.2**		
		2000 x 1500 mm	± 4			
		2000 x 750 mm	± 4			
		9.0 mm – 120.0 mm ^{*/**}	3000 x 2000 mm	1500 x 1000 mm	± 4	
				1000 x 750 mm	± 4	
3000 x 2000 mm	± 4					
2000 x 1500 mm	± 4					
2000 x 1000 mm	± 4					

Sheet size tolerances: the tolerances for standard sheet size are ± 50 mm
Special tolerances and negative tolerances available on request for order quantities exceeding 5 tons per thickness

Property	Parameter	Unit	LB 3.1A.1*	LB 3.1A.2**
Flexural strength	MD	MPa	115	130
	CMD		105	120
Compressibility	C	%	2.7	2.2
	C _{rev}		83	84
Internal ply strength	Dry 23 °C	MPa	112	115
	Dry 120 °C retention	%	79	73
	Oiled 23 °C retention		96	97
	Aged 23 °C retention		94	97
Apparent density		g/cm ³	1.24	1.30
Moisture content		%	7.4	3.5
Shrinkage	Thickness	%	6.1	2.5
	MD		0.4	0.2
	CMD		0.6	0.3
Oil absorption		%	12.5	10.0
Ash content		%	0.5	0.9
Conductivity of aqueous extract		mS/m	10.5	6.5
Electric strength in oil		kV/mm	15.0	14.5

* Adhesive Type 1 Casein 9.0 – 30.0 mm ** Adhesive Type 2 Polyester 9.0 – 120.0 mm