



VISION EXIM

Engineering Supply Chain Solutions!

Corrugated Finwall Tanks
&
Corrugated Finwall Panels



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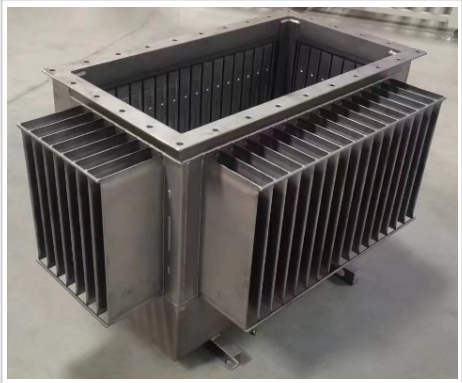
Email info@visionexim.in

Website www.visionexim.in

Location Vadodara, India.

Corrugated Finwall Tank

Rating	100 – 5000 kVA
Material	HR Sheet, Mild Steel, Structural Components
Type	Corrugated Fin Wall / Flat Wall
Condition	Bare / Shot Blasted + Painted
Paint Application	Spray / Flow Coating
Testing	Leakage, Pressure/Vacuum [deflection], Profile Roughness, Paint Adhesion

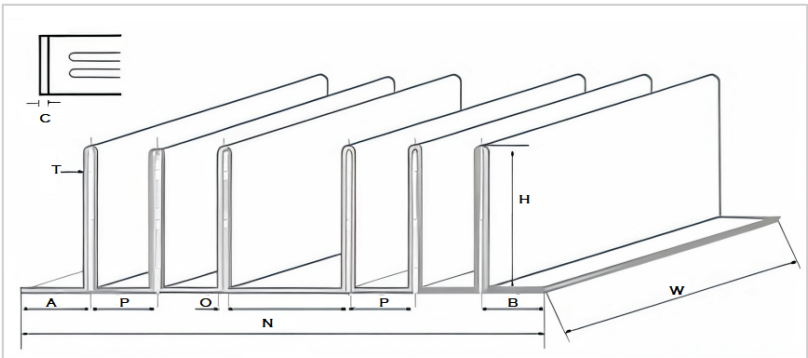


Benefits

- > Savings in material
- > Reduction in space footprint

- Robust construction
- Improved oil flow with no blockage
- Made from Cold Rolled / Hot Rolled Steel
- Offers elasticity to absorb oil expansion
- Reduces overall size of Transformer
- Efficient heat dissipation
- Lesser materials – smaller footprint
- Vertical embossed channels with spot welding
- Reduced number of welded joints
- Lesser assembling and maintenance cost

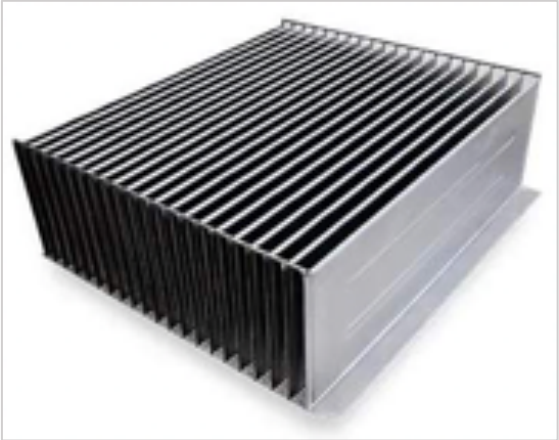
Production Process



Parameters

Finwall Width [min-max]	W	300 – 1600 mm
Finwall Height [min-max]	H	50 – 400 mm
CRCA Thickness	T	1.0 – 1.5 mm
Pitch [between two fins]	P	40 – 80 mm
Oil Duct	O	6 – 8 mm
Front, Rear Edge	A, B	25 mm
Reinforcement Strip	C	15 mm

Corrugated Finwall



*We are grateful to receive ideas and suggestions to improve our product offerings.

Our comprehensive approach to manufacturing and finishing ensures the production of high-quality, visually refined, and durable corrugated finwalls and transformer tanks, in full compliance with international standards.

Corrugated Finwall

- Made from CRCA steel conforming to IS 513 CR3 or ASTM A1008 DDS or EN 10130 DC04 for superior formability and surface finish.
- Manufacturing Process: Produced using an automatic manufacturing line that incorporates:
 - Automatic Forming: Ensures precise shaping of finwalls.
 - TIG Welding: Provides strong, clean welds for enhanced durability.
 - Spot Welding: Guarantees superior aesthetics and structural integrity.

Tank Fabrication

- Laser Cutting: Delivers high precision in component shapes.
- Bending and Machining: Ensures accurate fitting and assembly.
- MIG Welding: Performed by qualified and expert welders for robust enhancing strength and aesthetics.
- Leakage Prevention: All components are engineered to ensure zero leakage.

Shot Blasting

- Auto Feeder Booth: Utilizes steel shot/grit for effective surface cleaning.
- Blasted to achieve surface roughness level of SA 1 1/2 as per ISO 8501, ensuring surfaces are free from oil, rust, and scaling, promoting proper paint adhesion.

Painting

- Use flow and spray-painting techniques to achieve uniform coating thickness across the external surface area and internally painted with heat and oil-resistant paint for enhanced protection.
- Use of Three-Coat Paint System: Provides requisite protection against environmental corrosivity classes C4 and C5 as per ISO 12944.

Leakage Testing

- Every tank undergoes air pressure testing to ensure zero leakage at the customer's end in addition to dimensional measurement and finish.

Packing & Dispatch

- Transportation: Tanks are mounted on a wooden base, secured with PP Strapping, and film-wrapped to ensure safe transportation.

Data Sheet for Corrugated Wall Panels

Customer Name:

Transformer Rating:

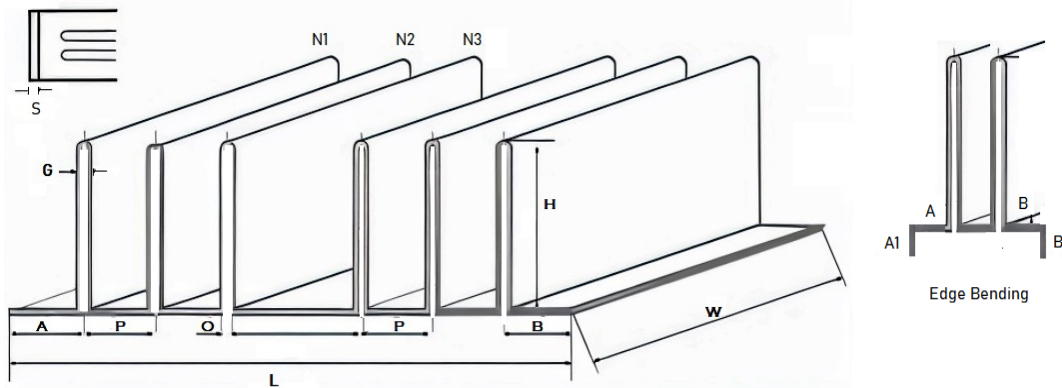
Drawing No.:

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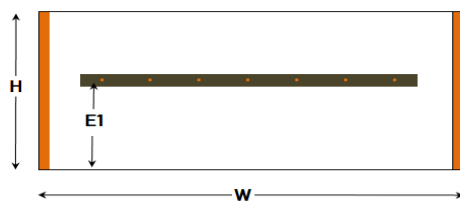


Parameter	Min	Max	Wall 1	Wall 2	Wall 3	Wall 4
Coil Width [W] ... mm	300	1600				
Sheet Thickness [T] ... mm	0	1 - 1.5mm				
Fin Height [H] ... mm	50	400				
Fin Pitch [P] ... mm	40	80				
No. of Fins [N]	1	75				
Front Edge [A] ... mm	30	0				
Rear Edge [B] ... mm	30	0				
Front Edge Bend [A1]... mm	15	0				
Rear Edge Bend [B1]... mm	15	0				
Inner Gap [O] ... mm	6	8				
Stiffner Rod ... mm	8	10				
Edge Locking Strip [S] ... mm	15	20				
Embossing - Spot Welding**	- / 1 / 2					
Quantity	Numbers					
Special Note →						
Fin to Fin Length ... mm	-					
Total Length of Panel [L] ... mm	-	< 3500				
Weight per Wall (approx.)	KG					
Total weight	KG					

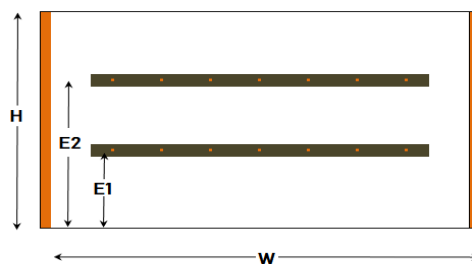
Finwalls without Embossing: $300 \leq W \leq 1200$ mm and $50 \leq H \leq 180$ mm

** Finwalls with Embossing: $W \geq 700$ mm and $H \geq 190$ mm

Single Embossing



Double Embossing



First Embossing Distance:

E1: 70 / 90 / 110 / 130 / 150 / 170

Second Embossing Distance

E2: 190 / 210 / 230 / 250 mm

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