



**Notes:**

- \*Typical Spacing of ZEE purlins & ceiling joist varies depending on applicable wind, snow, & seismic loads
- \*\*Typical metal stud framing varies depending on building configuration and applicable loads
- \*\*\* Ceiling laterals are typically spaced at 1.5m O.C. and are utilized to support ceiling panels (if applicable) and for equipment hung from ceiling

### BUILDINGS DESIGN COMPARISON CHART

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		ANGLE DESIGN	AGRI-VALUE BUILDING		
			Tube Design	Tube Design with Sandwich Panel	
COST	COMPARED TO ANGLE DESIGN EX-FACTORY		8% Less than Angle	1.5% Less than tube	
STRUCTURE	Column	H-Section Hot Rolled Steel (235 MPa) Typically is an H148x100	Galvanized Square tube Steel (345 MPa) or H section (235 MPa) Typically 100mm x 100mm x 4.0mm sq. hollow tube		
	Truss	Angle Members Vary from 40mm x 40mm x 3mm to 110mm x 110mm x 7mm	Tube Members Vary from 38mm x 38mm x 1.32mm to 100mm x 100mm x 4mm		
	Finish	Painted or Z 500g/m <sup>2</sup> galvanized	Z 275g/m <sup>2</sup> galvanized		
	Maximum Width (depending design)	30m or 50m with intermediate column	18m	18m	
	Bay Spacing		2.4, 3.0, and 3.6m		
	Typical Building Heights		2.1, 2.4, 3.0, and 3.6m		
	Wind Speed		80 - 300 Km/h		
	Curb With	150mm – 200mm	100mm – 110mm		
	Roof Panel	<ul style="list-style-type: none"> <li>Pre-painted, corrosion resistance (Z 180 g/m<sup>2</sup> galvanized)</li> <li>0.37mm steel panel (BMT) – 500MPa</li> </ul>			
	Roof Purlins	<ul style="list-style-type: none"> <li>Corrosion resistance (Z 275 g/m<sup>2</sup> galvanized)</li> <li>1.0mm steel panel (BMT) - 350MPa</li> </ul>			
	Range of Roof Slope	2°, 5°, and 9°	14° Only		
	INSULATION	Ceiling Insulation	<ul style="list-style-type: none"> <li>Cellulose ( R-30 max)</li> <li>Fiberglass Batt (R-30 max)</li> <li>Blown Fiberglass (R-30 max)</li> </ul>		
Wall Insulation		R-19 Fiberglass	R-12 Fiberglass	R – 7 PU Panel Wall	
Thermal Break		Optional (applied to framing)			
PANEL	Metal Panel Direction	Vertical	Horizontal	Vertical	
	Exterior Wall Panel	<ul style="list-style-type: none"> <li>Pre-painted, corrosion resistance (Z 180 g/m<sup>2</sup> galvanized)</li> <li>0.37mm steel panel (BMT) - 350MPa</li> </ul>	<ul style="list-style-type: none"> <li>Pre-painted, corrosion resistance (Z 120 g/m<sup>2</sup> galvanized)</li> <li>0.40mm steel panel (TCT) - 350MPa</li> </ul>		
	Interior Wall Panel	<ul style="list-style-type: none"> <li>Pre-painted, corrosion resistance (Z 180 g/m<sup>2</sup> galvanized)</li> <li>0.30mm to 0.37mm steel panel (BMT) - 350MPa</li> </ul>			
	Interior Ceiling Panel (Optional) Available ONLY upon request	<ul style="list-style-type: none"> <li>Pre-painted, corrosion resistance (Z 180 g/m<sup>2</sup> galvanized)</li> <li>0.30mm steel panel (BMT) - 350MPa</li> </ul>			
	Metal Sidewall Framing	Metal Stud + Track 1.0mm steel (BMT) Z 275g/m <sup>2</sup> galvanized	Metal Stud + Track 1.0mm steel (BMT) Z 275g/m <sup>2</sup> galvanized	N/A	
OTHERS	Maximum Overhang	300mm – 1000mm			
	Exposed Metal Fasteners	<ul style="list-style-type: none"> <li>Pre-painted, Corrosion Resistant (Dacromet Finish)</li> <li>Grade SAE Grade 5, ASTM A325, or equivalent</li> </ul>			
	Framing Metal Fasteners	<ul style="list-style-type: none"> <li>Hot - Dip Galvanized (HDG) steel fasteners</li> <li>Grade SAE Grade 5, ASTM A325, or equivalent</li> </ul>			
	Open Wall System (Optional)	<ul style="list-style-type: none"> <li>PCV Coated 1.00mm Steel Poultry Wire with 25mm mesh</li> <li>(100% PVC poultry wire with 25mm mesh upon request)</li> </ul>			