



**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**

		ANGLE DESIGN	AGRI-VALUE BUILDING	
			Tube Design	Tube Design with Sandwich Panel
<b>STRUCTURE</b>	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 Width	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>0.42mm 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	
<b>INSULATION</b>	Ceiling Liner: 0.15 mm Woven Polyethylene membrane. White on one side, black the other	<ul style="list-style-type: none"> <li>Ceiling liner + Lumber + Reinforced Retaining Strap</li> <li>Metal Panel +( Lumber or Steel )Ceiling Framing</li> <li>No Ceiling</li> </ul>		
	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
<b>PANEL</b>	Thermal Break	Optional (applied to framing)		
	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>0.42mm 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>0.34mm to 0.42mm 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>0.34mm steel panel (BMT) - 350MPa</li> </ul>		
<b>OTHERS</b>	Metal Wall 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
	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>PVC Coated 1.00mm Steel Poultry Wire with 25mm mesh</li> <li>(100% PVC poultry wire with 25mm mesh upon request)</li> </ul>			