



Mathcad Calculations Order Form

bigpigtld3@gmail.com

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			PDF	Mathcad	Order
1 Actions	<i>Full Set (including discount)</i>		\$40	\$396	
1A Analysis					
Updated	Beam Analysis	Rev 1	\$2	\$20	
	Beam Deflections allowing for Flexure & Shear	Rev 0	\$2	\$20	
	SIPS Panel Beam Design using a Compound Section	Rev 0	\$2	\$20	
	Frame Analysis using Kleinlogal	Rev 0	\$2	\$20	
	Pitched Portal Frame Analysis using Kleinlogal	Rev 0	\$2	\$20	
	Section Properties - Angle	Rev 0	\$2	\$20	
	Section Properties - Channel	Rev 0	\$2	\$20	
	Section Properties - RHS	Rev 0	\$2	\$20	
	Floor Vibration by Mast Method	Rev 0	\$2	\$20	
New	SIPS PIR Panel - Section Properties (Bottom skin steel, Top Skin Aluminium)	Rev 1	\$2	\$20	
New	Compound Section Properties (RHS Aluminium Outer + 2No. Steel Plate Inside)	Rev 1	\$2	\$20	



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New	Compound Section Properties (RHS Aluminium Outer + RHS Steel Inner)	Rev 1	\$2	\$20	
New	Nested Channel Member Design using a Compound Section	Rev 1	\$2	\$20	
1B Wind Actions					
Updated	Wind Loading to NZS1170.2: 2021	Rev 1	\$2	\$20	
	Wind on a Hoarding	Rev 0	\$2	\$20	
New	Freestanding Roofs subject to Wind Loads	Rev 1	\$2	\$20	
New	Circulars Bins, Silos & Tanks subject to Wind Loads	Rev 1	\$2	\$20	
New	Roof Mounted Solar Panels subject to Wind Loads	Rev 1	\$2	\$20	
1C Snow Actions					
	Snow Loading	Rev 0	\$2	\$20	
1D Seismic Actions					
	Derivation of Horizontal Seismic Design Action Coefficient	Rev 0	\$2	\$20	
	Seismic Demand on Steel Beam (by Parts)	Rev 0	\$2	\$20	
	Seismic Restraints for Equipment	Rev 0	\$2	\$20	
			\$44	\$440	
2 Concrete			<i>Full Set</i>	\$23	\$234
2A RC-New Design					
New	Anchor Design	Rev 1	\$2	\$20	
New	Anchor Design - Corner Columns	Rev 1	\$2	\$20	
	RC-Beam Check	Rev 0	\$2	\$20	
	RC Circular Squat Column Design	Rev 0	\$2	\$20	
	RC-Slab Check	Rev 0	\$2	\$20	
New	RC-Stair Design	Rev 1	\$2	\$20	
New	Calculation of Shrinkage Strain in Concrete	Rev 1	\$2	\$20	
2B RC-Seismic Assessment					
	RC Beam Check	Rev 0	\$2	\$20	
	RC Column Check	Rev 0	\$2	\$20	
2C PCC New Design					
	Floor Vibration by Mast Method	Rev 0	\$2	\$20	
New	Tiltwall Single Storey Shear Wall	Rev 1	\$2	\$20	
New	Tiltwall Single Storey Propped Cantilever	Rev 1	\$4	\$40	
			\$26	\$260	
3 Steel			<i>Full Set</i>	\$67	\$666
3A Steel New Design					
Updated	Bolt Group subject to In-plane Bending, Axial & Shear Forces	Rev 1	\$2	\$20	
New	Bolt Group subject to Out of plane Bending, Axial & Shear Forces	Rev 1	\$2	\$20	
New	Portal Knee Bolted Connection	Rev 1	\$2	\$20	
New	Fire Rating to NZS 3404	Rev 1	\$2	\$20	
New	Steel Column Design subject to Biaxial Bending, Shear, and Axial Load	Rev 1	\$2	\$20	
	Steel Connection Design-Apex	Rev 1	\$2	\$20	



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	Steel Connection Design-BCS1	Rev 1	\$2	\$20	
	Steel Connection Design-Bolt Group	Rev 1	\$2	\$20	
	Steel Connection Design-Fin Plate	Rev 1	\$2	\$20	
	Steel Connection Design-WeldedKnee	Rev 1	\$2	\$20	
	Steel Connection Design-Splice	Rev 1	\$2	\$20	
	Steel Handrail Design	Rev 0	\$2	\$20	
	Steel Portal Frame BUs	Rev 0	\$2	\$20	
Updated	Steel Portal Frame Design Check	Rev 1	\$4	\$40	
New	Steel Rafter Restraint Design	Rev 1	\$2	\$20	
New	Weld Design subject to Shear	Rev 1	\$2	\$20	
New	Weld Design Reid Bar Connection	Rev 1	\$2	\$20	
3B Steel Seismic Assessment					
	Steel Beam Design subject to Biaxial Bending, Shear & Axial Load	Rev 1	\$2	\$20	
3C Light Gauge Steel					
Updated	Light Steel Fixing	Rev 1	\$2	\$20	
New	Light Steel Rivets - Matrix	Rev 1	\$2	\$20	
New	Light Steel Screws - Matrix	Rev 1	\$2	\$20	
	Light Steel Members - Angles	Rev 0	\$2	\$20	
	Light Steel Members - Channels	Rev 0	\$2	\$20	
	Connection Design - Beam-Column	Rev 0	\$2	\$20	
	Connection Design - Portal-Base	Rev 0	\$2	\$20	
	Connection Design - Portal-Knee	Rev 0	\$2	\$20	
3D Structural Insulated Panels (SIPS)					
Updated	SIPS Panel Beam Design using a Compound Section (Simplified Version)	Rev 1	\$2	\$20	
New	Wall to Ceiling Panel Connection using Aluminium Angles & Rivets	Rev 1	\$2	\$20	
	SIPS-Panel-Beam-with-Aluminium Angles	Rev 0	\$2	\$20	
	SIPS-Panel-Beam-with Steel Angles	Rev 0	\$2	\$20	
Updated	SIPS-Panel-Beam-with Steel Channels	Rev 1	\$2	\$20	
	SIPS-Roof-Design	Rev 0	\$2	\$20	
	SIPS-Slender Wall Design	Rev 0	\$2	\$20	
	SIPS-Wall-Splice-Design	Rev 0	\$2	\$20	
	Thermopanel-Load-Spans	Rev 0	\$2	\$20	
	Thermopanel-Spans	Rev 0	\$2	\$20	
			\$74	\$740	

4 Composite

5 Timber

5A Timber New Design

Glass Barrier Design- Timber Fixing	Rev 0	\$2	\$20
Timber Barrier Design	Rev 0	\$2	\$20

			PDF	Mathcad	Order
	Timber Beam Design (single span)	Rev 0	\$2	\$20	
New	Timber Beam Design (multi-span)	Rev 1	\$4	\$40	
New	Timber Beam Design Example	Rev 1	\$2	\$20	
	Timber Bolted Joint	Rev 0	\$2	\$20	
	Timber Screwed Joint	Rev 0	\$2	\$20	
New	Timber Screwed Joint - Matrix	Rev 1	\$2	\$20	
New	Timber Column Design Examples	Rev 1	\$2	\$20	
New	Timber Steel Flitch Beam Design	Rev 1	\$2	\$20	
5B Timber Seismic Assessment					
	Timber Beam Assessment	Rev 1	\$2	\$20	
	Probable Shear Strength of an Existing Timber Floor Diaphragm	Rev 0	\$2	\$20	
			\$26	\$260	
6 Masonry			<i>Full Set</i>	\$22	\$216
6A Reinforced Masonry Design Examples (NZCMA)					
	3.2a Reinforced Masonry Beam Flexure (NZCMA)	Rev 0	\$2	\$20	
	3.2b Reinforced Masonry Wall Flexure In Plane (NZCMA)	Rev 0	\$2	\$20	
	3.3 Reinforced Masonry Wall Flexure Out of Plane (NZCMA)	Rev 0	\$2	\$20	
	3.4 Reinforced Masonry Wall Shear In Plane (NZCMA)	Rev 0	\$2	\$20	
	3.6 Ductile Cantilever Reinforced Masonry Wall (NZCMA)	Rev 0	\$2	\$20	
6B Reinforced Masonry (Seismic Assessment)					
	Reinforced Masonry Wall - In-plane Shear Check	Rev 0	\$2	\$20	
6C Unreinforced Masonry (Seismic Assessment)					
	URM Parapet Out of Plane Check	Rev 0	\$2	\$20	
	Pilaster Out of Plane Restraint	Rev 0	\$2	\$20	
	URM Wall Out of Plane Check	Rev 0	\$2	\$20	
	Infill Wall 2 Way Out of Plane Check	Rev 0	\$2	\$20	
	Infill Wall 2 Way In Plane Check	Rev 0	\$2	\$20	
6D Reinforced Masonry (New Design)					
	Reinforced Masonry Chimney	Rev 0	\$2	\$20	
			\$24	\$240	
7 Foundations & Geotechnics			<i>Full Set</i>	\$45	\$450
7A Pad Footings					
Updated	Concentric Pad Footing Design - Cohesionless Soils	Rev 1	\$2	\$20	
Updated	Concentric Pad Footing Design - Cohesive Soils	Rev 1	\$2	\$20	
Updated	Pad Footing-Eccentric	Rev 1	\$2	\$20	
7B Pile Design					
	Pile-Design-Driven-Hiley	Rev 0	\$2	\$20	
Updated	A-Pile-Design-Free-Undrained	Rev 2	\$2	\$20	
Updated	B-Pile-Design-Fixed-Undrained	Rev 2	\$2	\$20	
Updated	C-Pile-Design-Free-Drained	Rev 2	\$2	\$20	
Updated	D-Pile-Design-Fixed-Drained	Rev 2	\$2	\$20	
New	E-Pile-Design-Free-Undrained-NC	Rev 1	\$2	\$20	
New	F-Pile-Design-Fixed-Undrained-NC	Rev 1	\$2	\$20	



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	Screw Pile Structural Capacity	Rev 1	\$2	\$20	
Updated	Square Timber Anchor Pile	Rev 1	\$2	\$20	
Updated	Square Timber Cantilever Pile	Rev 1	\$2	\$20	
New	Timber Pile - Section Capacity	Rev 1	\$2	\$20	
New	Concrete Pile - Section Capacity (6 bar)	Rev 1	\$2	\$20	
New	Concrete Pile - Section Capacity (8 bar)	Rev 1	\$2	\$20	
7C Retaining Walls					
Updated	Eg1 Design of a Cantilever Pole Retaining Wall to Resist Earthquake Loading	Rev 1	\$2	\$20	
Updated	Eg2 Concrete Cantilever Retaining Wall	Rev 1	\$2	\$20	
Updated	Eg3 Design of a Concrete Crib Retaining Wall to Resist Earthquake Loading	Rev 1	\$2	\$20	
New	Eg 4 Tied-Back Retaining Wall	Rev 1	\$2	\$20	
Updated	Earth Pressures by Coulomb Theory	Rev 1	\$2	\$20	
Updated	RetainingWall-BoundaryWallCombined	Rev 1	\$2	\$20	
	Example from Appendix C of Verification Method B1/VM4 Foundations (not included in B1/VM2)	Rev 0	\$2	\$20	
Updated	Timber Barrier Pile Wall Design Option 1	Rev 1	\$2	\$20	
Updated	Timber Barrier Pile Wall Design Option 2	Rev 1	\$2	\$20	
			\$50	\$500	

8 Seismic	<i>Full Set</i>			
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9 Aluminium	<i>Full Set</i>	\$9	\$90	
	Aluminium Angles	Rev 0	\$2	\$20
	Aluminium Connections	Rev 0	\$2	\$20
	Aluminium RHS Element Design	Rev 0	\$2	\$20
	Aluminium CHS Tubular Element Design	Rev 0	\$2	\$20
	Aluminium RHS Purlin & Girt Design	Rev 0	\$2	\$20
			\$10	\$100

PDF Mathcad Total

All sets including discount \$190 \$1,900

TOTAL ORDER

~~\$229 \$2,286~~