



Anchor Products AnchorMax

FRP STRUCTURAL SECTIONS

2025 - V1.1



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ANCHOR PRODUCTS

Anchor Products is an Australian owned and operated company based in East Gippsland, Victoria, Australia. Anchor Products provides cutting edge Fibre Reinforced Polymer (FRP) and associated products to domestic customers and industrial customers operating in various market sectors including civil construction, marine and ports, transport and rail, oil and gas and natural environment preservation.

FIBER REINFORCED POLYMER - FRP

Fiber Reinforced Polymer (FRP) is an innovative construction material with vast untapped potential in areas yet to be explored. It offers outstanding advantages over timber and metal alternatives, delivering superior performance while helping reduce environmental impact through a smaller carbon footprint. FRP products serve as a versatile replacement for traditional materials, offering resistance to corrosion, magnetism, electrical conduction, and even being transparent to RF signals

Anchor Products can cater to a variety of different needs and has the state-of-the art fabrication facilities and expertise to create customised solutions where required.

ANCHORMAX

Anchor Products frequently used AnchorMax structural sections. Please contact sales@anchorproducts.com.au to discuss other options.



CIRCULAR HOLLOW SECTION (CHS)



UNIVERSAL BEAM (UB) / UNIVERSAL COLUMN (UC)



C CHANNEL / PARALLEL FLANGED CHANNEL (PFC)



RECTANGULAR HOLLOW SECTION (RHS)



EQUAL ANGLE (EA)

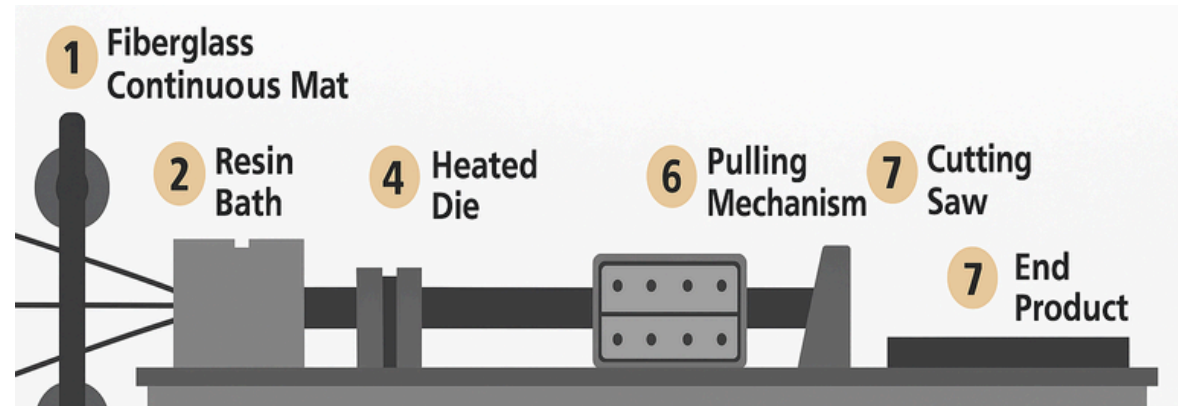


FLAT PLATE (FP)



SQUARE HOLLOW SECTION (SHS)

ANCHORMAX PULTRUSION PROCESS



Anchor Products utilises the pultrusion process in manufacturing AnchorMax structural sections.

The FRP pultrusion process is a continuous manufacturing method used to produce strong, lightweight, and corrosion-resistant fiber-reinforced polymer profiles with a constant cross-section. It begins with fiberglass rovings and mats being pulled through a resin bath for impregnation, then shaped and cured in a heated die. A pulling mechanism continuously draws the composite through the die, ensuring uniformity and strength. The cured profile is then cut to desired lengths. This process is ideal for producing structural components like beams, channels, and rods used in construction, marine, and industrial applications due to its efficiency and consistent quality.

Key Advantages of Pultrusion

- Consistent Quality due to the automated, continuous process.
- High Strength-to-Weight Ratio, ideal for structural applications.
- Corrosion Resistance, especially valuable in marine and chemical environments.
- Electrical and Thermal Insulation properties.
- Low Maintenance and long service life.

ANCHORMAX RESIN SELECTION

In FRP, resin is the matrix material that surrounds and binds the reinforcing fibers together. It plays a critical role in the performance of the composite by transferring loads between fibers, protecting them from environmental damage, and giving the structure its final shape and finish.

Functions of resin in FRP

- Binding Agent – Reinforcing fibers in place, creating a rigid and cohesive material
- Load Transfer – Distributes stresses across the composite
- Environmental Protection – Acts as a barrier, protecting fibers from moisture, chemicals, UV light, and other environmental factors
- Shape and Surface Finish – Determines the final geometry and smoothness – contributes to the colour and aesthetic.

Our most used **AnchorMax** resins are Isophthalic and Vinyl Ester Resin due to their superior applications.

Our team will be able to guide you in your selection according to the job your FRP Anchor Max will play.

Contact sales@anchorproducts.com.au to discuss your project and our most applicable resin type.



***AnchorMax Span Tables in this document are created for ISO resin sections*

ISOPHTHALIC RESIN

ISO resin, short for isophthalic polyester resin, is a commonly used thermosetting resin in the production of Fiber Reinforced Polymers (FRP). It serves as the matrix material that binds the reinforcing fibers (typically glass, carbon, or aramid) together to form a composite structure.

- Superior Chemical Resistance
- Tensile, flexural and impact strength – beneficial for load-bearing or structural components.
- Enhanced durability and weather resistance. Ideal for outdoor and marine environments – including jetties and boardwalks.

VINYL ESTER RESIN

Vinyl ester resin is a high-performance resin system used in Fiber Reinforced Polymer (FRP), known for its exceptional mechanical strength, superior chemical resistance, and toughness. It is the resin of choice for applications requiring the highest durability under stress, heat, and aggressive chemical environments.

- Highly resistant to acids, alkalis, solvents and moisture making it ideal for harsh chemical and marine environments
- Highest tensile, flexural and impact strength
- Withstands the highest of temperatures in comparison with other resins. Suitable for high heat environments.

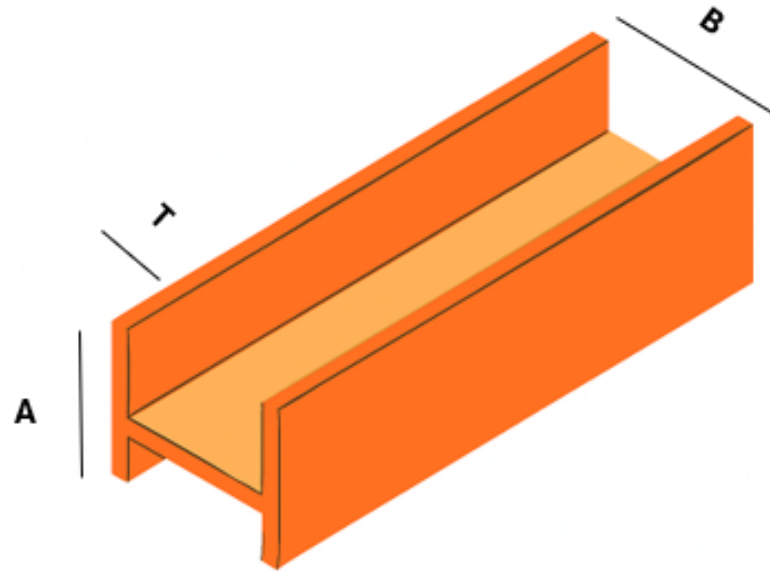
ORHOPHTHALIC RESIN

Ortho resin, short for orthophthalic polyester resin, is the most commonly used and economically priced type of unsaturated polyester resin in the FRP (Fiber Reinforced Polymer) industry. It acts as the matrix that holds the reinforcing fibers (like glass, carbon, or aramid) together and determines many of the composite's physical and chemical properties.

- General purpose application
- Adequate strength and stiffness for low to moderate stress applications
- Not suitable for harsh environments or chemicals. Basic resistance properties.

ANCHORMAX FRP UNIVERSAL BEAMS (UB)/ UNIVERSAL COLUMN (UC)

AnchorMax Universal Beams (UB) / Universal Columns (UC) are commonly used in Fiber Reinforced Polymer (FRP) structural applications due to their high strength-to-weight ratio, corrosion resistance, and ease of installation. These AnchorMax beams serve as key load-bearing elements in both industrial and commercial environments, particularly in corrosive settings such as chemical plants, wastewater treatment facilities, and marine structures. In FRP construction, AnchorMax UB and UC beams provide structural support for platforms, walkways, mezzanines, and frames while minimising maintenance and extending service life compared to traditional steel alternatives. Their lightweight nature also reduces transportation and installation costs, making them an efficient choice for modern infrastructure projects.



DIMENSION (MM) A X B X T	WEIGHT (KG/M)
76 X 76 X 6.4	2.67
102 X 102 X 6.4	3.59
102 X 102 X 8.0	4.50
152 X 152 X 6.4	5.43
152 X 152 X 9.5	8.10
203 x 203 x 9.5	10.80
203 x 203 x 12.7	14.36
254 X 254 X 9.5	13.60
254 X 254 X 12.7	18.04
305 X 305 X 12.7	21.50

**Please note these are our most frequently used structural section dimensions/weights - other dimensions/weights are available on request*

ANCHORMAX
FRP UNIVERSAL BEAMS (UB) / UNIVERSAL COLUMN (UC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

203H-12.7

LOADING	3	kPa		MEMBER SIZE		203H - 12.7	
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
8.63	8.30	8.13	7.85	7.55	6.87	100	1.00%
7.55	7.26	7.11	6.87	6.61	6.01	150	0.67%
7.11	6.84	6.70	6.47	6.22	5.66	180	0.56%
6.47	6.22	6.09	5.88	5.66	5.15	240	0.42%
5.66	5.44	5.33	5.15	4.95	4.50	360	0.28%
LOADING	4	kPa					
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
7.85	7.55	7.39	7.14	6.87	6.25	100	1.00%
6.87	6.60	6.47	6.25	6.01	5.46	150	0.67%
6.47	6.22	6.09	5.88	5.66	5.15	180	0.56%
5.88	5.65	5.54	5.35	5.15	4.68	240	0.42%
5.15	4.95	4.84	4.68	4.50	4.09	360	0.28%
LOADING	5	kPa					
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
7.29	7.01	6.87	6.63	6.38	5.80	100	1.00%
6.38	6.13	6.01	5.80	5.58	5.08	150	0.67%
6.01	5.78	5.66	5.46	5.26	4.78	180	0.56%
5.46	5.25	5.15	4.97	4.78	4.35	240	0.42%
4.78	4.60	4.50	4.35	4.18	3.80	360	0.28%

ANCHORMAX
FRP UNIVERSAL BEAMS (UB) / UNIVERSAL COLUMN (UC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

254H-9.5

LOADING	3	kPa		MEMBER SIZE			254H - 9.5	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
10.01	9.62	9.42	9.10	8.76	7.96	100	1.00%	
8.76	8.42	8.24	7.96	7.66	6.97	150	0.67%	
8.24	7.93	7.76	7.50	7.21	6.56	180	0.56%	
7.50	7.21	7.06	6.82	6.56	5.96	240	0.42%	
6.56	6.31	6.18	5.96	5.74	5.22	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
9.10	8.75	8.57	8.28	7.96	7.24	100	1.00%	
7.96	7.65	7.50	7.24	6.97	6.33	150	0.67%	
7.50	7.21	7.06	6.82	6.56	5.96	180	0.56%	
6.82	6.56	6.42	6.20	5.96	5.42	240	0.42%	
5.96	5.73	5.62	5.42	5.22	4.74	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
8.46	8.13	7.96	7.69	7.40	6.73	100	1.00%	
7.40	7.11	6.97	6.73	6.47	5.88	150	0.67%	
6.97	6.70	6.56	6.33	6.09	5.54	180	0.56%	
6.33	6.09	5.96	5.76	5.54	5.04	240	0.42%	
5.54	5.33	5.22	5.04	4.85	4.41	360	0.28%	

ANCHORMAX
FRP UNIVERSAL BEAMS (UB) / UNIVERSAL COLUMN (UC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

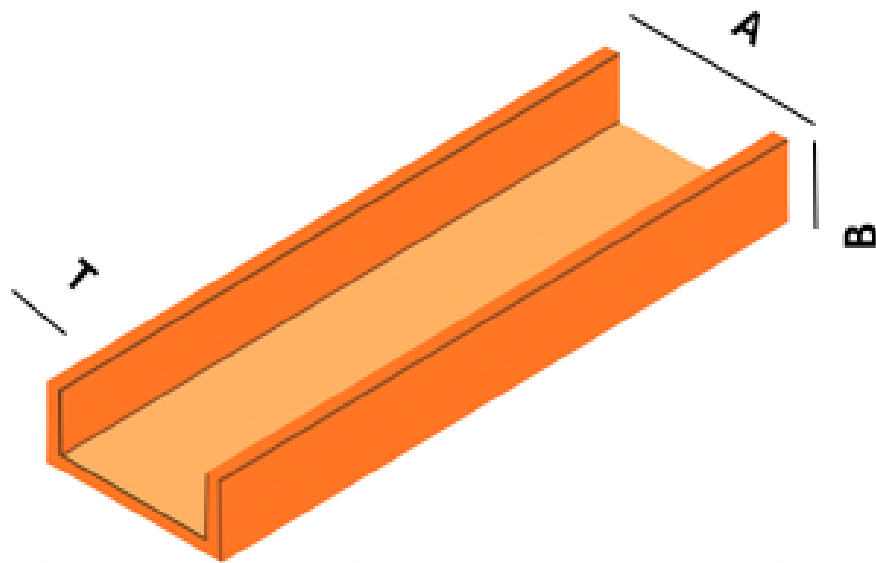
Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

254H-12.7

LOADING	3	kPa		MEMBER SIZE	254H - 12.7		
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
10.90	10.48	10.26	9.91	9.53	8.67	100	1.00%
9.53	9.16	8.97	8.67	8.34	7.58	150	0.67%
8.97	8.63	8.45	8.16	7.85	7.14	180	0.56%
8.16	7.85	7.69	7.42	7.14	6.49	240	0.42%
7.14	6.86	6.72	6.49	6.25	5.68	360	0.28%
LOADING	4	kPa					
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
9.91	9.53	9.33	9.01	8.67	7.88	100	1.00%
8.67	8.33	8.16	7.88	7.58	6.90	150	0.67%
8.16	7.85	7.69	7.42	7.14	6.49	180	0.56%
7.42	7.14	6.99	6.75	6.49	5.91	240	0.42%
6.49	6.24	6.11	5.91	5.68	5.17	360	0.28%
LOADING	5	kPa					
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
9.21	8.85	8.67	8.37	8.05	7.32	100	1.00%
8.05	7.74	7.58	7.32	7.04	6.41	150	0.67%
7.58	7.29	7.14	6.90	6.63	6.03	180	0.56%
6.90	6.63	6.49	6.27	6.03	5.49	240	0.42%
6.03	5.80	5.68	5.49	5.28	4.80	360	0.28%

ANCHORMAX FRP PARALLEL FLANGED CHANNEL (PFC)

AnchorMax Parallel Flanged Channels (PFC), are widely used in structural applications where lightweight, corrosion-resistant, and durable framing is essential. In FRP (Fiber Reinforced Polymer) systems, AnchorMax PFC is commonly utilised for secondary structural supports, framing for enclosures, jetty and boardwalk crossheads and edge supports for platforms. Their open profile allows easy integration with other structural elements and simplifies installation for bolted or riveted connections. Due to their excellent resistance to environmental degradation, AnchorMax PFC is particularly effective in marine, chemical, and wastewater settings, offering long service life with minimal maintenance requirements.



DIMENSION (MM) A X B X T	WEIGHT (KG/M)
120 X 30 X 5.0	1.62
120 X 40 X 5.0	1.81
152 X 42 X 4.8	2.03
152 X 42 X 6.4	2.72
152 X 42 X 9.5	3.95
203 X 56 X 6.4	3.68
203 X 56 X 9.5	5.34
210 X 80 X 5.0	3.42
254 X 70 X 12.7	8.90
305 X 76 X 12.7	10.55

**Please note these are our most frequently used structural section dimensions/weights - other dimensions/weights are available on request*

ANCHORMAX
FRP PARALLEL FLANGED CHANNEL (PFC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

152-4.8 PFC

LOADING	3	kPa		MEMBER SIZE			152-4.8 PFC	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
3.47	3.34	3.27	3.16	3.04	2.76	100	1.00%	
3.04	2.92	2.86	2.76	2.66	2.42	150	0.67%	
2.86	2.75	2.69	2.60	2.50	2.28	180	0.56%	
2.60	2.50	2.45	2.37	2.28	2.07	240	0.42%	
2.28	2.19	2.14	2.07	1.99	1.81	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
3.16	3.04	2.98	2.87	2.76	2.51	100	1.00%	
2.76	2.66	2.60	2.51	2.42	2.20	150	0.67%	
2.60	2.50	2.45	2.37	2.28	2.07	180	0.56%	
2.37	2.28	2.23	2.15	2.07	1.88	240	0.42%	
2.07	1.99	1.95	1.88	1.81	1.65	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
2.94	2.82	2.76	2.67	2.57	2.34	100	1.00%	
2.57	2.47	2.42	2.34	2.25	2.04	150	0.67%	
2.42	2.32	2.28	2.20	2.12	1.92	180	0.56%	
2.20	2.11	2.07	2.00	1.92	1.75	240	0.42%	
1.92	1.85	1.81	1.75	1.68	1.53	360	0.28%	

ANCHORMAX
FRP PARALLEL FLANGED CHANNEL (PFC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

152-6.4 PFC

LOADING	3	kPa		MEMBER SIZE			152-6.4 PFC	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
3.77	3.63	3.55	3.43	3.30	3.00	100	1.00%	
3.30	3.17	3.11	3.00	2.89	2.63	150	0.67%	
3.11	2.99	2.93	2.83	2.72	2.47	180	0.56%	
2.83	2.72	2.66	2.57	2.47	2.25	240	0.42%	
2.47	2.38	2.33	2.25	2.16	1.97	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
3.43	3.30	3.23	3.12	3.00	2.73	100	1.00%	
3.00	2.89	2.83	2.73	2.63	2.39	150	0.67%	
2.83	2.72	2.66	2.57	2.47	2.25	180	0.56%	
2.57	2.47	2.42	2.34	2.25	2.05	240	0.42%	
2.25	2.16	2.12	2.05	1.97	1.79	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
3.19	3.07	3.00	2.90	2.79	2.54	100	1.00%	
2.79	2.68	2.63	2.54	2.44	2.22	150	0.67%	
2.63	2.52	2.47	2.39	2.30	2.09	180	0.56%	
2.39	2.30	2.25	2.17	2.09	1.90	240	0.42%	
2.09	2.01	1.97	1.90	1.83	1.66	360	0.28%	

ANCHORMAX
FRP PARALLEL FLANGED CHANNEL (PFC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

152-9.5 PFC

LOADING	3	kPa		MEMBER SIZE		152-9.5 PFC	
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
4.20	4.03	3.95	3.82	3.67	3.34	100	1.00%
3.67	3.53	3.46	3.34	3.21	2.92	150	0.67%
3.46	3.32	3.25	3.14	3.02	2.75	180	0.56%
3.14	3.02	2.96	2.86	2.75	2.50	240	0.42%
2.75	2.64	2.59	2.50	2.41	2.19	360	0.28%
LOADING	4	kPa					
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
3.82	3.67	3.59	3.47	3.34	3.04	100	1.00%
3.34	3.21	3.14	3.04	2.92	2.66	150	0.67%
3.14	3.02	2.96	2.86	2.75	2.50	180	0.56%
2.86	2.75	2.69	2.60	2.50	2.27	240	0.42%
2.50	2.40	2.35	2.27	2.19	1.99	360	0.28%
LOADING	5	kPa					
Floor joist spacing						deflection	
300	338	360	400	450	600	L/	
3.55	3.41	3.34	3.22	3.10	2.82	100	1.00%
3.10	2.98	2.92	2.82	2.71	2.47	150	0.67%
2.92	2.81	2.75	2.66	2.55	2.32	180	0.56%
2.66	2.55	2.50	2.42	2.32	2.11	240	0.42%
2.32	2.23	2.19	2.11	2.03	1.85	360	0.28%

ANCHORMAX
FRP PARALLEL FLANGED CHANNEL (PFC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

203-6.4 PFC

LOADING	3	kPa		MEMBER SIZE			203-6.4 PFC	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
5.09	4.89	4.79	4.63	4.45	4.05	100	1.00%	
4.45	4.28	4.19	4.05	3.89	3.54	150	0.67%	
4.19	4.03	3.94	3.81	3.66	3.33	180	0.56%	
3.81	3.66	3.59	3.46	3.33	3.03	240	0.42%	
3.33	3.20	3.14	3.03	2.92	2.65	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
4.63	4.45	4.36	4.21	4.05	3.68	100	1.00%	
4.05	3.89	3.81	3.68	3.54	3.22	150	0.67%	
3.81	3.66	3.59	3.46	3.33	3.03	180	0.56%	
3.46	3.33	3.26	3.15	3.03	2.76	240	0.42%	
3.03	2.91	2.85	2.76	2.65	2.41	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
4.30	4.13	4.05	3.91	3.76	3.42	100	1.00%	
3.76	3.61	3.54	3.42	3.29	2.99	150	0.67%	
3.54	3.40	3.33	3.22	3.10	2.82	180	0.56%	
3.22	3.09	3.03	2.93	2.82	2.56	240	0.42%	
2.82	2.71	2.65	2.56	2.46	2.24	360	0.28%	

ANCHORMAX
FRP PARALLEL FLANGED CHANNEL (PFC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

203-9.5 PFC

LOADING	3	kPa		MEMBER SIZE			203-9.5 PFC	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
5.69	5.47	5.36	5.18	4.98	4.53	100	1.00%	
4.98	4.79	4.69	4.53	4.35	3.96	150	0.67%	
4.69	4.51	4.41	4.26	4.10	3.73	180	0.56%	
4.26	4.10	4.01	3.88	3.73	3.39	240	0.42%	
3.73	3.59	3.51	3.39	3.26	2.97	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
5.18	4.98	4.87	4.71	4.53	4.12	100	1.00%	
4.53	4.35	4.26	4.12	3.96	3.60	150	0.67%	
4.26	4.10	4.01	3.88	3.73	3.39	180	0.56%	
3.88	3.73	3.65	3.53	3.39	3.08	240	0.42%	
3.39	3.26	3.19	3.08	2.97	2.70	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
4.81	4.62	4.53	4.37	4.21	3.83	100	1.00%	
4.21	4.04	3.96	3.83	3.68	3.35	150	0.67%	
3.96	3.81	3.73	3.60	3.46	3.15	180	0.56%	
3.60	3.46	3.39	3.28	3.15	2.87	240	0.42%	
3.15	3.03	2.97	2.87	2.76	2.51	360	0.28%	

ANCHORMAX
FRP PARALLEL FLANGED CHANNEL (PFC)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

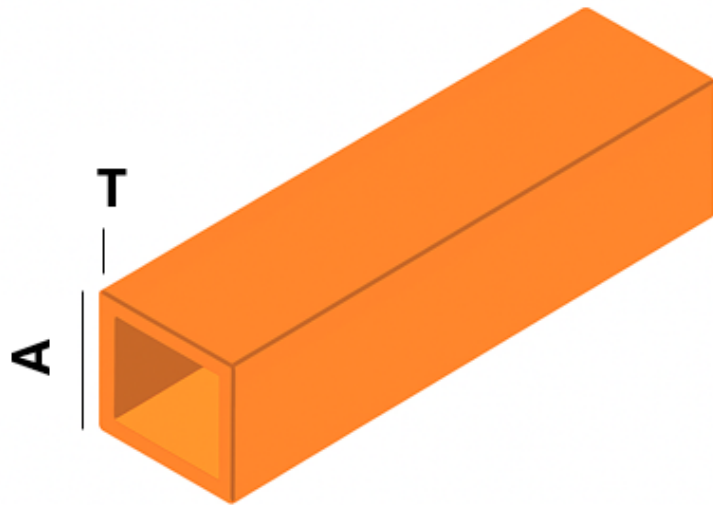
Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

254-12.7 PFC

LOADING	3	kPa		MEMBER SIZE			254-12.7 PFC	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
7.79	7.49	7.33	7.08	6.81	6.20	100	1.00%	
6.81	6.55	6.41	6.20	5.96	5.42	150	0.67%	
6.41	6.17	6.04	5.83	5.61	5.10	180	0.56%	
5.83	5.61	5.49	5.31	5.10	4.64	240	0.42%	
5.10	4.91	4.81	4.64	4.46	4.06	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
7.08	6.81	6.67	6.44	6.20	5.63	100	1.00%	
6.20	5.96	5.83	5.63	5.42	4.93	150	0.67%	
5.83	5.61	5.49	5.31	5.10	4.64	180	0.56%	
5.31	5.10	5.00	4.83	4.64	4.22	240	0.42%	
4.64	4.46	4.37	4.22	4.06	3.69	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
6.58	6.33	6.20	5.98	5.76	5.23	100	1.00%	
5.76	5.53	5.42	5.23	5.04	4.58	150	0.67%	
5.42	5.21	5.10	4.93	4.74	4.31	180	0.56%	
4.93	4.74	4.64	4.48	4.31	3.92	240	0.42%	
4.31	4.15	4.06	3.92	3.77	3.43	360	0.28%	

ANCHORMAX FRP SQUARE HOLLOW SECTIONS (SHS)

AnchorMax FRP Square Hollow Sections (SHS) are versatile structural components valued for their uniform strength, dimensional stability, and corrosion resistance. Their closed, box-like profile provides excellent torsional rigidity and compressive strength, making them ideal for load-bearing frames, columns, supports, and architectural structures in harsh environments. Commonly used in marine infrastructure, chemical plants, and industrial platforms, AnchorMax SHS elements are lightweight and easy to fabricate, allowing for faster installation and reduced labor costs. Their non-conductive properties also make them suitable for applications near electrical equipment or where electromagnetic interference must be minimized.



DIMENSION (MM) A X B X T	WEIGHT (KG/M)
25 X 3.2	0.53
38 X 6.4	1.54
50 X 6.4	2.12
76 X 6.4	3.39
101 X 6.4	4.61
125 X 6.4	5.76
125 X 8	7.2
125 X 12.7	11.43
150 X 12.7	13.5
152 X 12.7	13.50

**Please note these are our most frequently used structural section dimensions/weights - other dimensions/weights are available on request*

ANCHORMAX
FRP SQUARE HOLLOW SECTIONS (SHS)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

101 X 6.4 SHS

LOADING	3	kPa		MEMBER SIZE			100 X 6 SHS	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
3.47	3.34	3.27	3.16	3.04	2.76	100	1.00%	
3.04	2.92	2.86	2.76	2.66	2.42	150	0.67%	
2.86	2.75	2.69	2.60	2.50	2.28	180	0.56%	
2.60	2.50	2.45	2.37	2.28	2.07	240	0.42%	
2.28	2.19	2.14	2.07	1.99	1.81	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
3.16	3.04	2.97	2.87	2.76	2.51	100	1.00%	
2.76	2.66	2.60	2.51	2.42	2.20	150	0.67%	
2.60	2.50	2.45	2.37	2.28	2.07	180	0.56%	
2.37	2.27	2.23	2.15	2.07	1.88	240	0.42%	
2.07	1.99	1.95	1.88	1.81	1.65	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
2.93	2.82	2.76	2.67	2.57	2.33	100	1.00%	
2.57	2.47	2.42	2.33	2.25	2.04	150	0.67%	
2.42	2.32	2.28	2.20	2.11	1.92	180	0.56%	
2.20	2.11	2.07	2.00	1.92	1.75	240	0.42%	
1.92	1.85	1.81	1.75	1.68	1.53	360	0.28%	

ANCHORMAX
FRP SQUARE HOLLOW SECTIONS (SHS)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

125 X 8 SHS

LOADING	3	kPa		MEMBER SIZE			125 X 8 SHS	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
4.74	4.56	4.47	4.31	4.15	3.77	100	1.00%	
4.15	3.99	3.91	3.77	3.63	3.30	150	0.67%	
3.91	3.76	3.68	3.55	3.42	3.11	180	0.56%	
3.55	3.42	3.35	3.23	3.11	2.83	240	0.42%	
3.11	2.99	2.93	2.83	2.72	2.47	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
4.31	4.15	4.06	3.92	3.77	3.43	100	1.00%	
3.77	3.63	3.55	3.43	3.30	3.00	150	0.67%	
3.55	3.42	3.35	3.23	3.11	2.83	180	0.56%	
3.23	3.11	3.04	2.94	2.83	2.57	240	0.42%	
2.83	2.72	2.66	2.57	2.47	2.25	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
4.01	3.85	3.77	3.64	3.51	3.19	100	1.00%	
3.51	3.37	3.30	3.19	3.07	2.79	150	0.67%	
3.30	3.17	3.11	3.00	2.89	2.63	180	0.56%	
3.00	2.89	2.83	2.73	2.63	2.39	240	0.42%	
2.63	2.52	2.47	2.39	2.30	2.09	360	0.28%	

ANCHORMAX
FRP SQUARE HOLLOW SECTIONS (SHS)

SPAN TABLES - FLOOR JOISTS 3, 4, 5 kPa

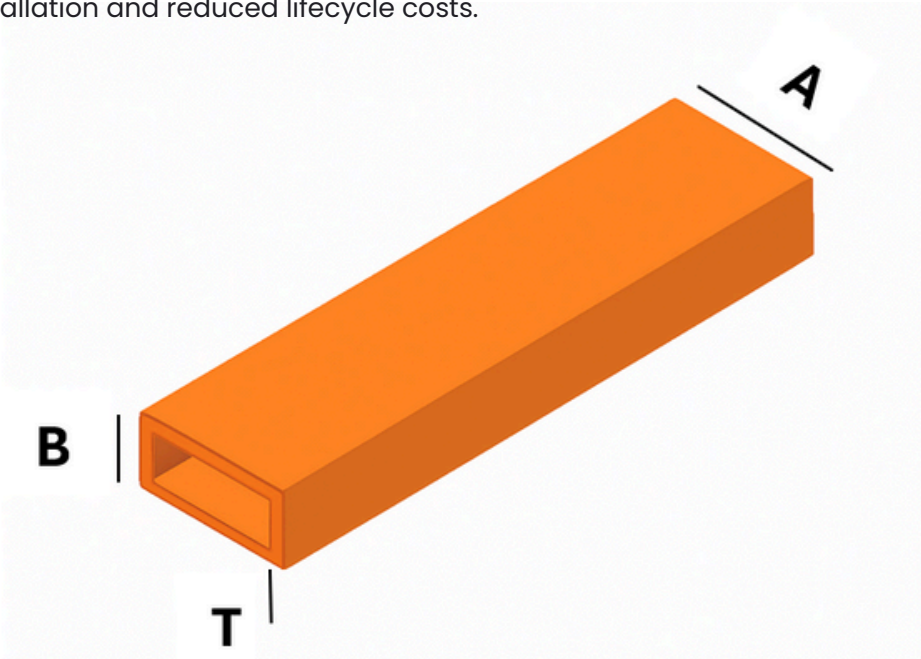
Limit state capacities - Recommended maximum single spans (m)
FLOOR LIVE LOADS (EXCLUDING STORAGE LOADING)

150 X 12.7
SHS

LOADING	3	kPa		MEMBER SIZE			150 X 12.7 SHS	
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
6.48	6.23	6.10	5.90	5.67	5.16	100	1.00%	
5.67	5.45	5.34	5.16	4.96	4.51	150	0.67%	
5.34	5.13	5.03	4.86	4.67	4.25	180	0.56%	
4.86	4.67	4.57	4.42	4.25	3.86	240	0.42%	
4.25	4.08	4.00	3.86	3.72	3.38	360	0.28%	
LOADING	4	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
5.90	5.67	5.55	5.36	5.16	4.69	100	1.00%	
5.16	4.96	4.86	4.69	4.51	4.10	150	0.67%	
4.86	4.67	4.57	4.42	4.25	3.86	180	0.56%	
4.42	4.25	4.16	4.02	3.86	3.51	240	0.42%	
3.86	3.71	3.64	3.51	3.38	3.07	360	0.28%	
LOADING	5	kPa						
Floor joist spacing							deflection	
300	338	360	400	450	600	L/		
5.48	5.27	5.16	4.98	4.79	4.36	100	1.00%	
4.79	4.61	4.51	4.36	4.19	3.81	150	0.67%	
4.51	4.34	4.25	4.10	3.95	3.59	180	0.56%	
4.10	3.94	3.86	3.73	3.59	3.26	240	0.42%	
3.59	3.45	3.38	3.26	3.14	2.85	360	0.28%	

ANCHORMAX FRP RECTANGULAR HOLLOW SECTIONS (RHS)

FRP Rectangular Hollow Sections (RHS) are robust structural profiles that offer a strong and stable framework for a wide range of applications. Their rectangular geometry provides high flexural strength and resistance to buckling, making them ideal for use in load-bearing structures such as support frames, handrails, bridges, barriers, and equipment enclosures. Commonly utilized in environments with high moisture, chemical exposure, or electrical sensitivity—such as marine facilities, industrial plants, and electrical substations—FRP RHS elements deliver long-term performance with minimal maintenance. Their lightweight nature and ease of fabrication further contribute to efficient installation and reduced lifecycle costs.

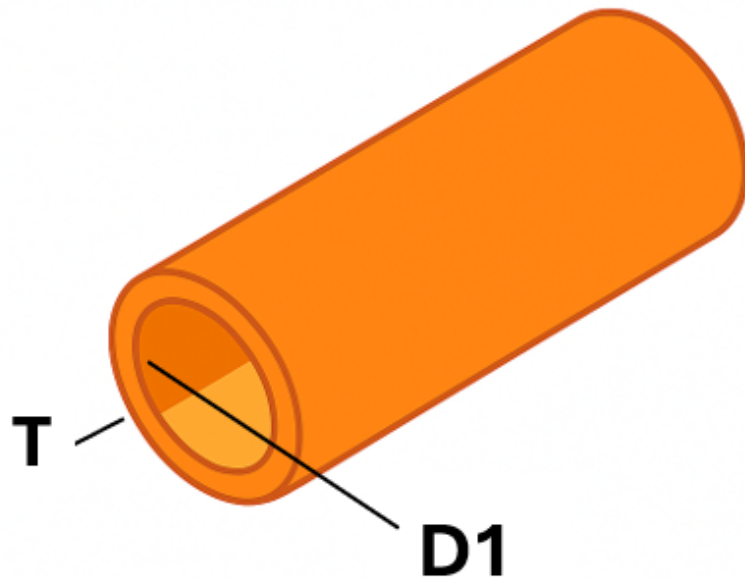


**Please note these are our most frequently used structural section dimensions/weights - other dimensions/weights are available on request*

DIMENSION (MM) A X B X T	WEIGHT (KG/M)
38 X 25 X 5.50	1.20
50 X 38 X 6.4	2.08
76 X 25 X 5.0	2.33
100 X 50 X 5.0	2.72
112 X 91 X 6.4	4.46
125 X 75 X 6.0	4.32
150 X 100 X 6.4	5.76
186 X 32 X 5.0	3.95
197 X 44 X 5.0	4.34
250 X 100 X 8.0	10.36

ANCHORMAX FRP CIRCULAR HOLLOW SECTIONS (CHS)

AnchorMax FRP Circular Hollow Sections (CHS) are structural elements known for their high strength-to-weight ratio and excellent resistance to torsional and bending stresses. Their symmetrical, tubular design makes them ideal for applications requiring uniform load distribution, such as columns, handrails, guardrails, light poles, and pipe supports. Widely used in corrosive environments like coastal, marine, and chemical processing facilities, FRP CHS components provide long-lasting durability without rusting, rotting, or conducting electricity. Their smooth exterior also enhances aesthetics and safety, while their lightweight and easy-to-handle nature ensures quick and cost-effective installation.

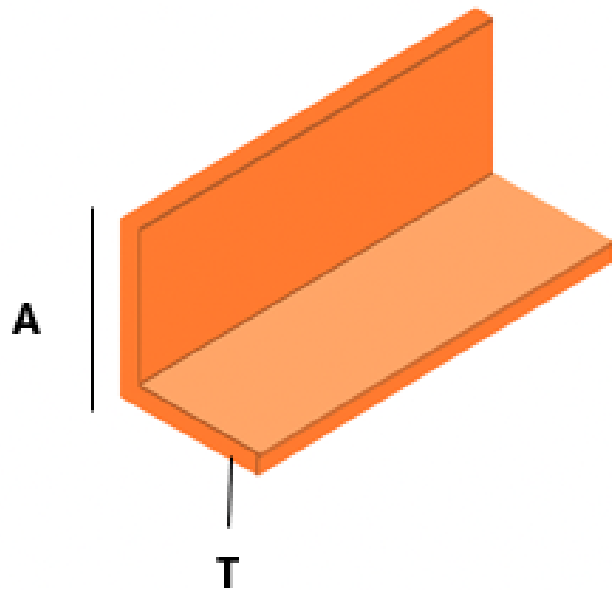


**Please note these are our most frequently used structural section dimensions/weights - other dimensions/weights are available on request*

DIMENSION (MM) D1 x T	WEIGHT (KG/M)
32 X 6.4	1.10
42 X 6.4	1.45
50 X 3.2	0.84
50 X 6.4	1.67
50 X 6.4	1.70
76 X 6.4	2.64
101 X 6.4	3.62
150 X 3.2	2.81
150 X 6.4	5.50
150 X 12.7	10.70

ANCHORMAX FRP EQUAL ANGLE (EA)

AnchorMax FRP Equal Angles are versatile structural profiles used primarily for bracing, framing, and reinforcement in various construction and industrial applications. With equal-length legs forming a 90-degree angle, these components provide strength and stability at joints, corners, and edges, making them ideal for frameworks, support brackets, handrail systems, and equipment housings. Their corrosion-resistant and non-conductive properties make AnchorMax FRP Equal Angles especially valuable in harsh environments such as marine, chemical, and electrical installations. Lightweight yet durable, they are easy to fabricate and install, contributing to reduced maintenance and longer service life in demanding conditions.

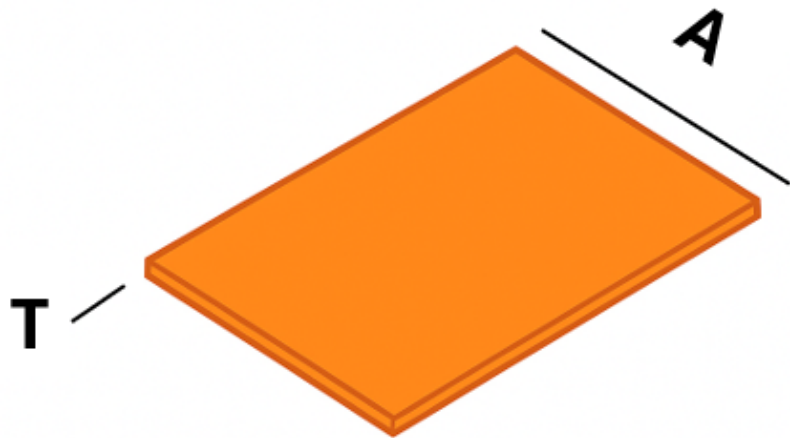


**Please note these are our most frequently used structural section dimensions/weights - other dimensions/weights are available on request*

DIMENSION (MM) A X T	WEIGHT (KG/M)
38 X 3.2	0.46
50 X 3.2	0.61
50 X 4.8	0.86
76 X 6.4	1.77
101 X 6.4	2.50
101 X 9.5	3.48
101 X 12.7	4.57
152 X 6.4	3.62
152 X 9.5	5.42
152 X 12.7	7.01

ANCHORMAX FRP FLAT PLATE (FP)

AnchorMax FRP Flat Plates are solid, flat structural components commonly used for flooring, wall panels, cover plates, and custom-fabricated parts in environments that demand high durability and corrosion resistance. Their strong, lightweight construction makes them suitable for both load-bearing and protective applications in numerous industry contexts. AnchorMax FRP Flat Plates offer excellent resistance to chemicals, moisture, and UV exposure, while their non-conductive nature enhances safety in electrical or hazardous areas. Easy to cut, drill, and install, they provide a versatile and maintenance-free alternative to traditional materials like steel or wood.



**Please note these are our most frequently used structural section dimensions/weights - other dimensions/weights are available on request*

DIMENSION (MM) A X T	WEIGHT (KG/M)
38 x 5.0	0.35
50 x 4.0	0.36
90 x 3.0	0.50
120 x 3.0	0.65
120 x 10.0	2.16
615 x 3.2	3.55
1220 x 6.4	14.06
1220 x 12.7	29.50
1524 x 6.4	17.60
1524 x 12.7	36.80



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