

ELEMENT
INDUSTRIAL
BUILDERS, INC.



ELEMENT STEEL

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WHO WE ARE

History

Element Steel started as a trading company in 2012. After a few years, it expanded into manufacturing of galvanized C-Purlins, Steel Decking, Metal Furring, Studs, and Tracks. Its most recent addition to the product line-up is pre-painted Galvalume Roofing.

Today, Element Steel supplies to top housing developers - such as AXEIA Development Corporation, Homemerk Inc., New Apec Development Corporation, Amana Land, and P.A Alvarez. The company has also worked with commercial developers and recognizable retailers on projects - such as the completion of membership-shopping club S&R in Parañaque and Cabanatuan City, and San Simon Industrial Park in Pampanga.

Product Data

Test Items	Z	U 718	Test Items	Z	U 718	Test Items	Z	U 718
Density (g/cm ³)	≤ 1.45	≤ 1.45	Lzod impact strength(kj/m ²)	≥ 2	≥ 6	Hardness (Shore)	≥ 78	≥ 77
Tensile Strength	≥ 45	≥ 43	Notched impact strength of simply supported beams (kj/m ²)	≥ 2.5	≥ 7	Flexural modulus of elasticity(Mpa)	≥ 2600	≥ 2500
Bending Strength	≥ 78	≥ 65	Vicat softening temperature (°C)	≥ 75	≥ 82	Heat Deflection temperature	≥ 70	≥ 70

Advantages of Vinyl Sheet Pile

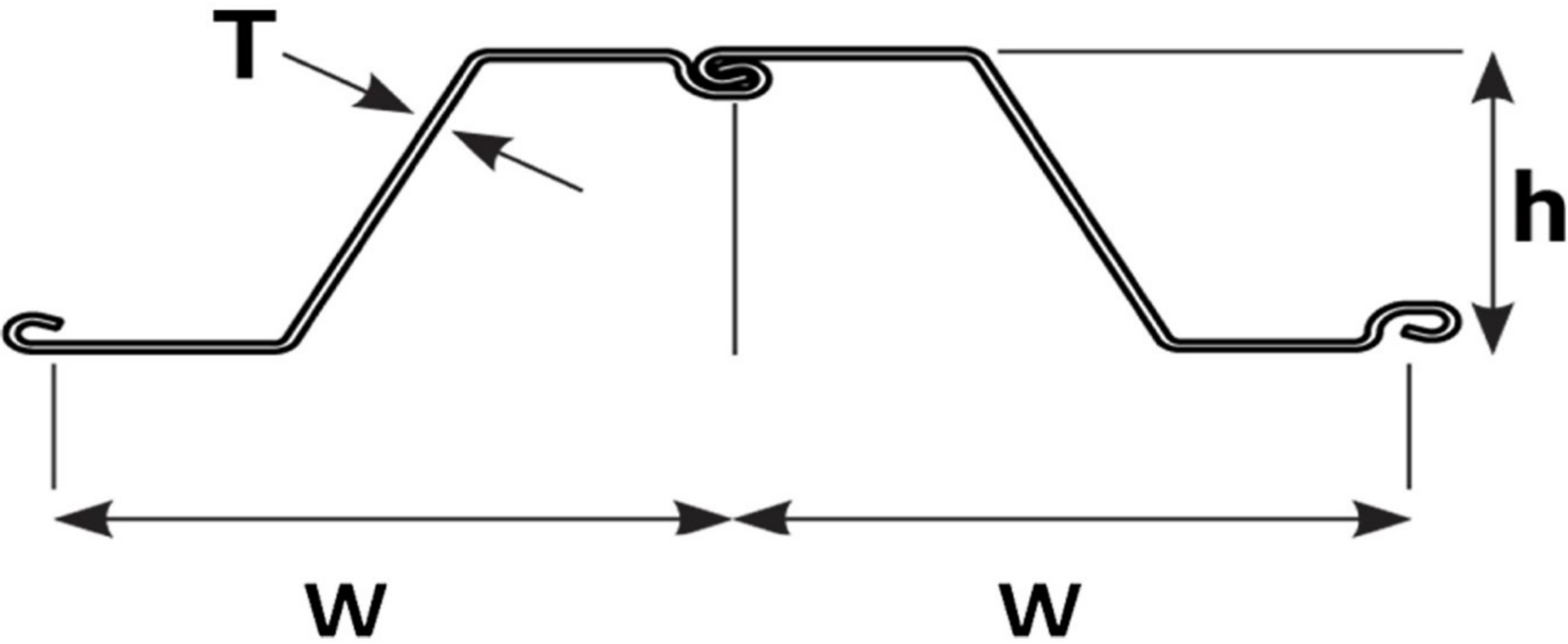
Durable,waterproof and impervious to water

Vinyl sheet pile wil not rot or rust,can withstand most chemical substances,ultraviolet radiation, extreme weather and other effects,with a long service life. It has the advantages of high strength, good toughness,good anti-overtunning performance,strong earth quake resistance, high bearing capacity of single pile, and has strong compressive strength and impact resistance . Resistance to mechanical damage, including scratches,cracks and abrasions. Because of the impermeable water design of sheet pile, it ensures good impermeability and can be widely used in flood control and disaster rescue.

Cost and time savings

Compared with the traditional solution, vinyl shet pile is more effective for slope protection and flood control. Its light weight structure and unique design facilities logistics and assembly. The tools used for installation are simple and fast. Sheet pile can be bent to adjust their angles. To accommodate natural shorelines and river banks.

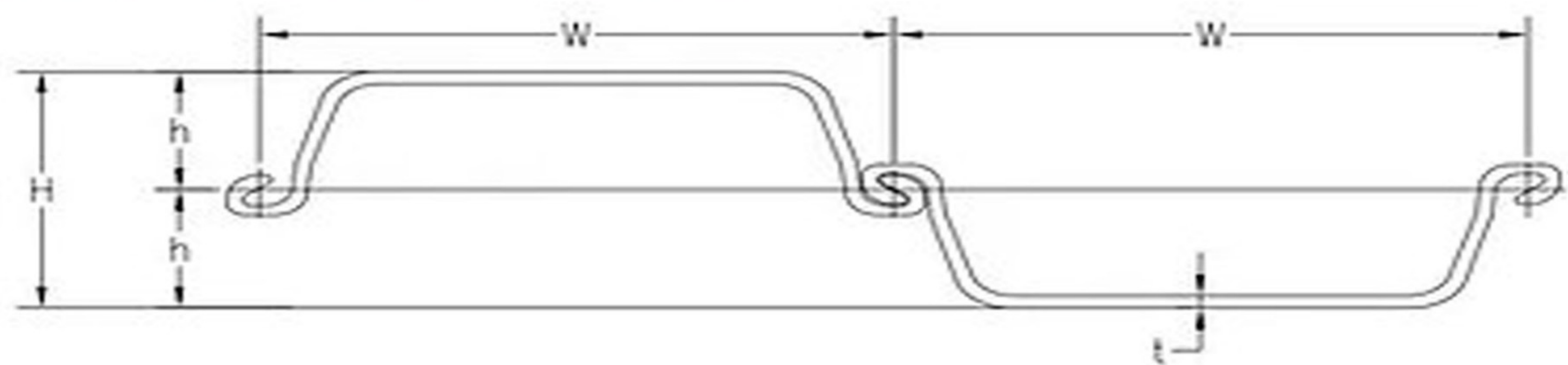
Z-Type Hot Rolled Sheet Pile



Specification

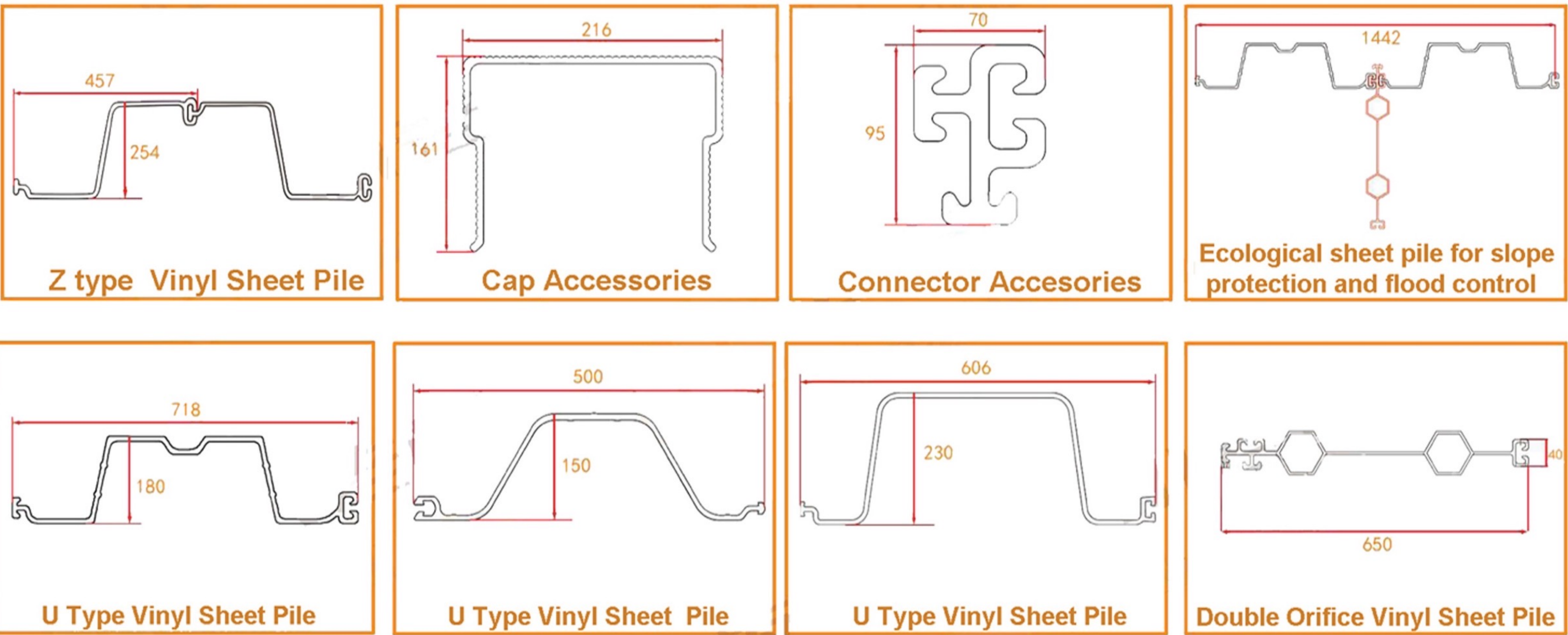
Items	Section	Width (b)	Width (b)	Height (h)	Thickness		Cross Section Area	Weight	Weight	Moment of Inertia	Elastic Modulus	Bending Moment S35GP	Coating Area
					Flange Width (t)	Web (s)							
		mm	mm	mm	mm	mm	cm ²	Kg/m	Kg/m ²	cm ⁴ /m	cm ³ /m	kNm/m	m ² /m
1	MHZ12-1	770	361	343.5	8.6	8.5	120.8	72.8	94.5	21496	1252	444.46	0.93

Hot Rolled Sheet Pile



Section	Width	Combined Height	Thickness	Weight		Elastic Section Modulus	Moment of Inertia
	(w)	(h)	Flange (t _f)	Per Pile	Per Wall		
	mm	mm	mm	kg/m	kg/m ²		
Type II*	400	100	10.5	48	120	874	8,740
Type III*	400	125	13	60	150	1,340	16,800
Type IIIA	400	150	13	58.4	146	1,520	22,800
Type IIIw	600	180	13.1	81.6	136	1,800	32,400
Type IV*	400	170	15.5	76.1	190	2,270	38,600

Vinyl Sheet Pile



Vinyl sheet pile is a new type of high strength composite materials, which is extruded by a special process. The shape of the sheet pile is design according to the principle of physics,adopts large moment of inertia section design, and is combined with multi-direction concave and convex joints to become a new type of continous, high strengtrh and high lateral bending resistance green bank protection and flood control structure. Ecological sheet pile can effectively replace traditional materials, such as steel sheet pile,concrete sheet pile or wood sheet pile.It is widely used of its excellent performance parameters and low investment cost.

Mission and Vision

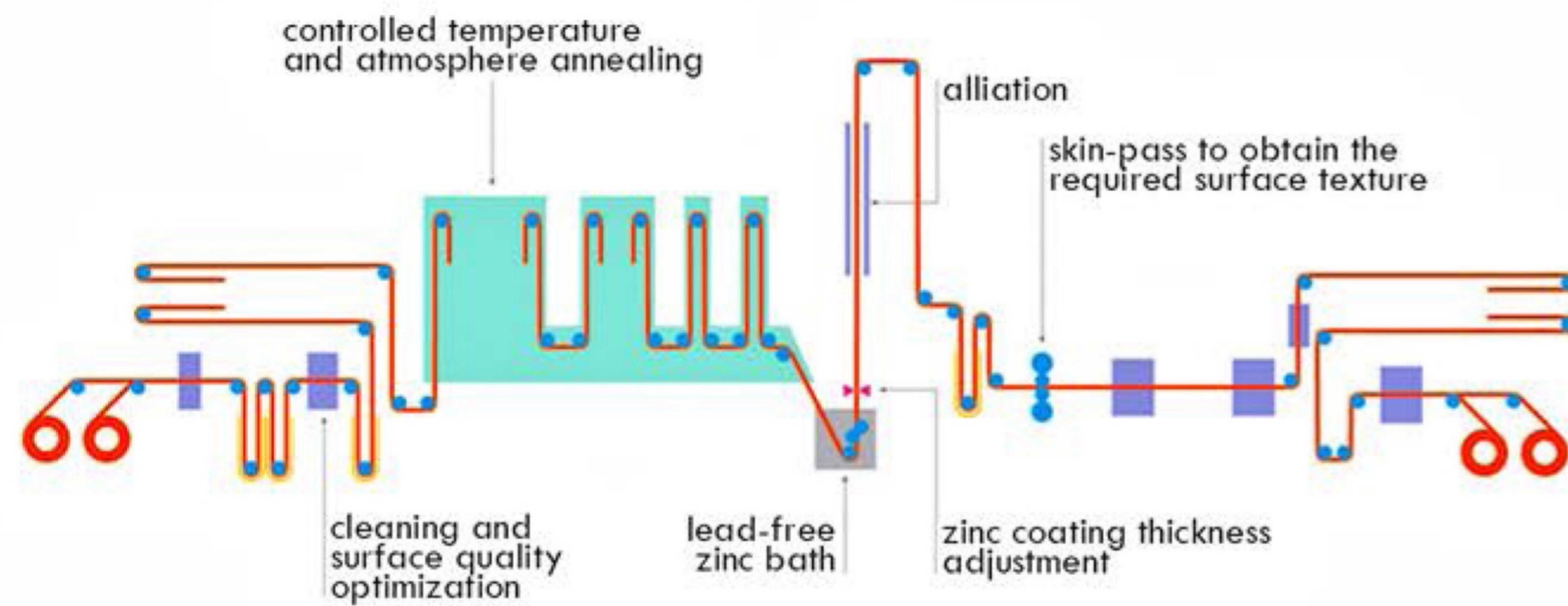
Element Steel aims to shift the local market to using more sustainable products such as galvanized steel framing rather than using wood framings which are prone to termites and wood degradation. At the same time we want our products to be more affordable and accessible to the local market, allowing every Filipino household to use sustainable steel framing.

OUR PROJECTS



PRODUCTION FLOW

RECTANGULAR TUBING



Step 1: GALVANIZING

Cold rolled steel coils are galvanized in our own line, going through several processes as depicted in the above diagram & photos.



Step 2: SLITTING

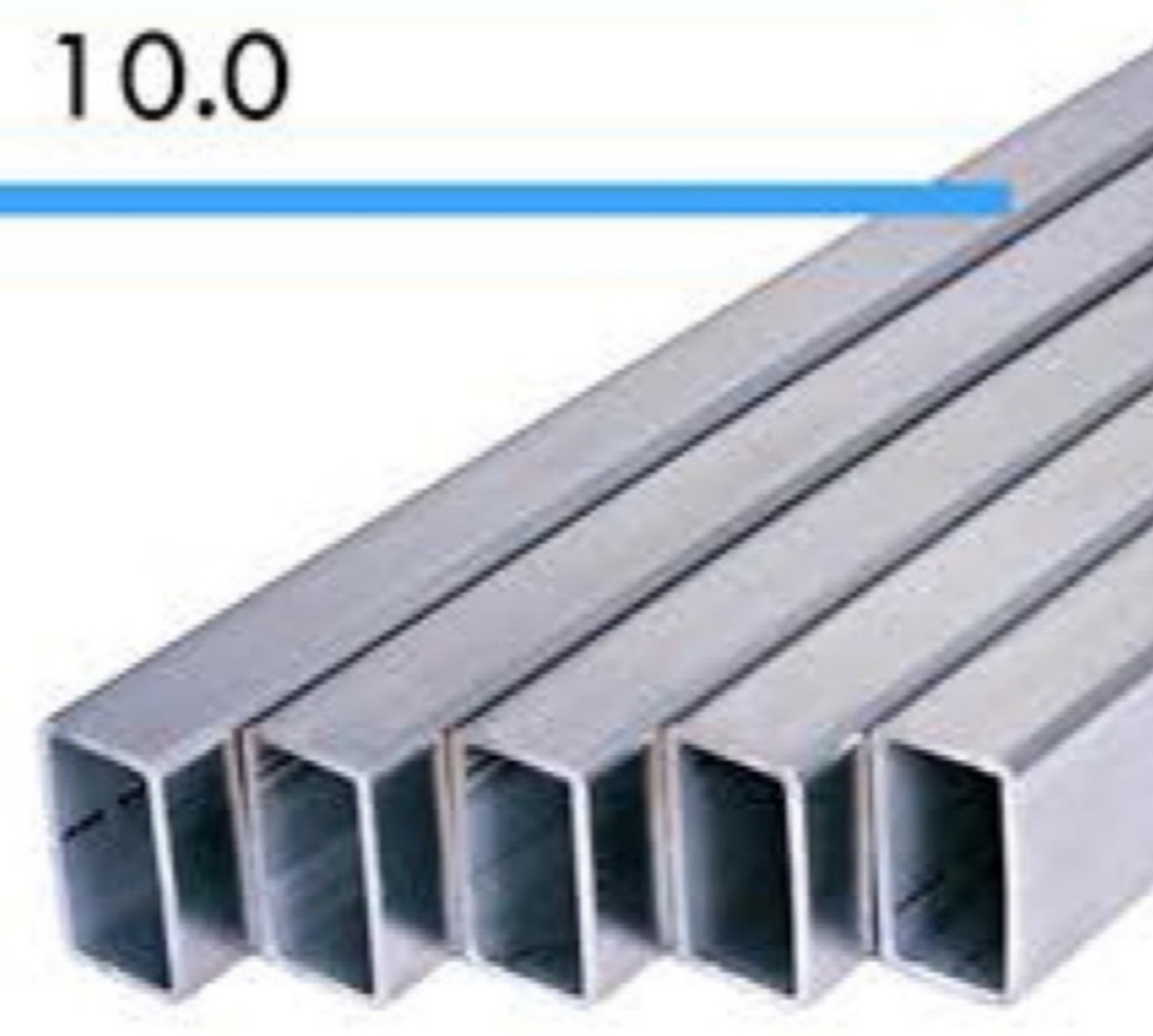
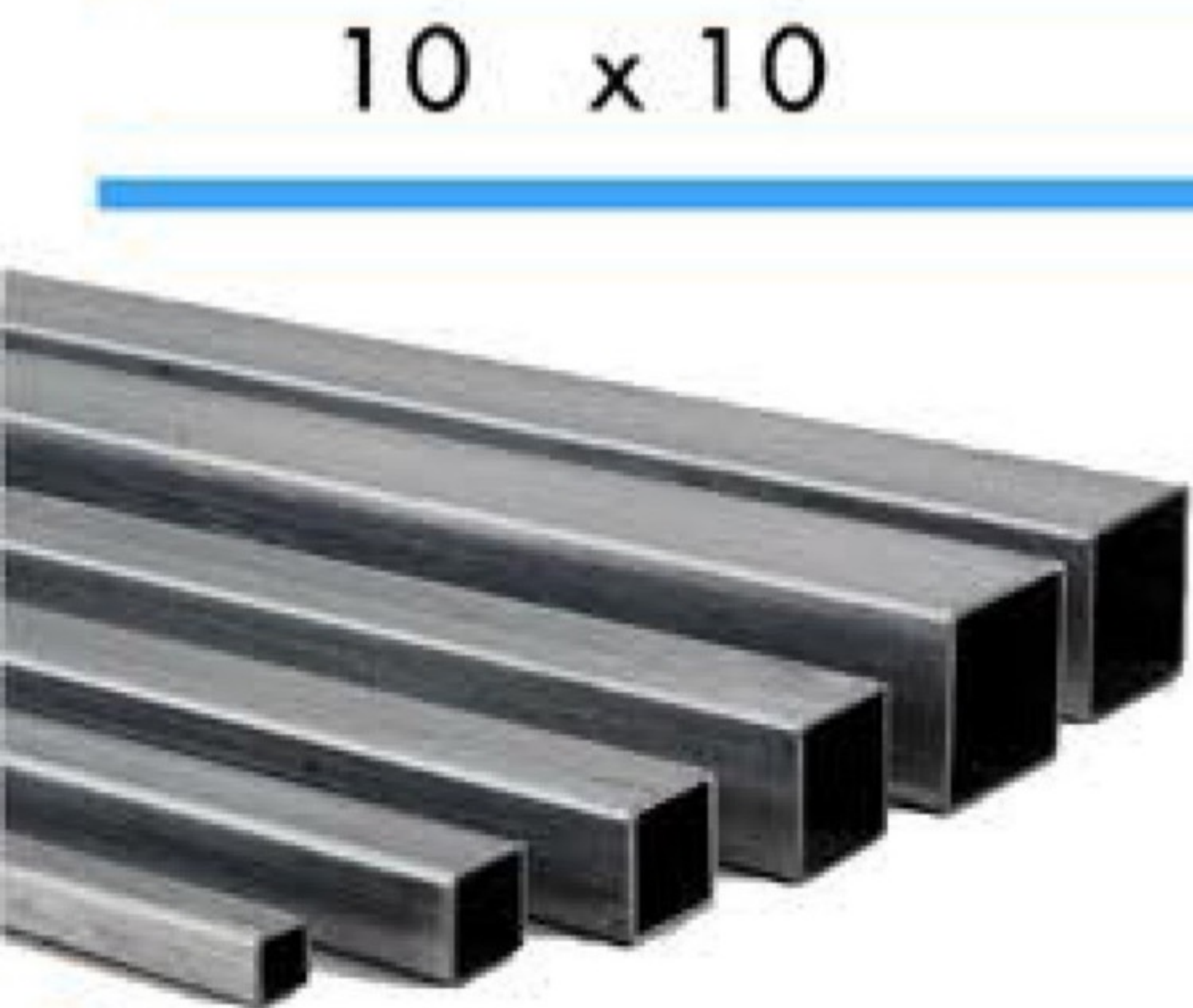
After cleaning and galvanizing, the cold rolled galvanized coils are loaded on the slitting line for the required size, whether for galvanized C-Purlins or Steel Decking.



INCHES	MILLIMETER	THICKNESS CONFIGURATIONS (mm)	
3/4 x 2	19 x 50	1.2	2.0
		1.5	
3/4 x 1 1/2	19 x 38	0.7	1.5
		1.2	2.0
1 x 2	25 x 50	0.7	2.0
		0.9	2.5
		1.2	3.0
		1.5	4.0
1 x 3	25 x 75	1.5	2.0
1 1/2 x 2	38 x 50	1.2	2.5
		1.5	3.0
		2.0	
1 1/2 x 3	38 x 75	1.5	3.0
		2.0	
2 x 3	50 x 75	0.9	3.0
		1.2	4.0
		1.5	5.0
		2.0	6.0
		2.5	
2 x 4	50 x 100	1.0	3.0
		1.2	4.0
		1.5	5.0
		2.0	6.0
		2.5	
2 x 5	50 x 125	1.5	3.0
		2.0	
2 x 6	50 x 150	1.5	3.0
		2.0	4.0
		2.5	6.0
3 x 4	75 x 100	2.0	4.0
		3.0	6.0
3 x 6	75 x 150	5.0	6.0
4 x 6	100 x 150	4.0	10.0
		6.0	
4 x 8	100 x 200	4.0	6.0
		5.0	10.0

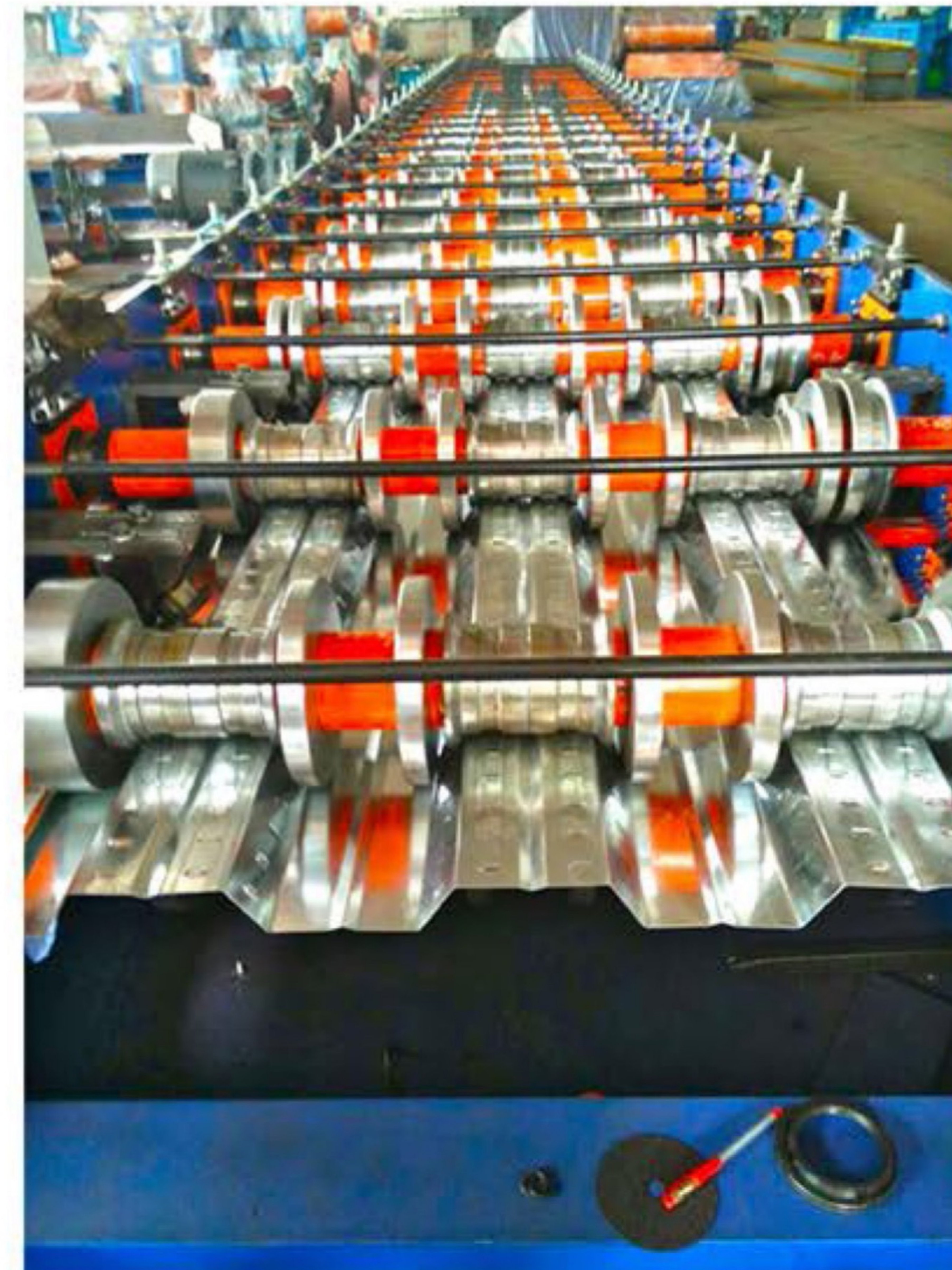
SQUARE TUBING

INCHES	MILLIMETER	THICKNESS CONFIGURATIONS (mm)	
1/2 x 1/2	13 x 13	0.9	1.2
5/8 x 5/8	16 x 16	1.2	
3/4 x 3/4	19 x 19	0.7	1.5
		1.2	2.0
1 x 1	25 x 25	0.7	2.0
		0.9	2.5
		1.2	3.0
		1.5	
1 1/4 x 1 1/4	30 x 30	0.7	2.0
		0.9	2.5
		1.2	3.0
		1.5	
1 1/2 x 1 1/2	25 x 25	0.7	2.0
		0.9	2.5
		1.2	3.0
		1.5	
2 x 2	50 x 50	0.7	2.0
		0.9	2.5
		1.2	3.0
		1.5	
3 x 3	75 x 75	1.5	3.0
		2.0	4.0
		2.5	6.0
4 x 4	100 x 100	2.0	4.0
		3.0	6.0
5 x 5	125 x 125	4.0	6.0
6 x 6	150 x 150	4.0	6.0
		5.0	10.0
8 x 8	200 x 200	6.0	10.0
10 x 10	250 x 250	10.0	

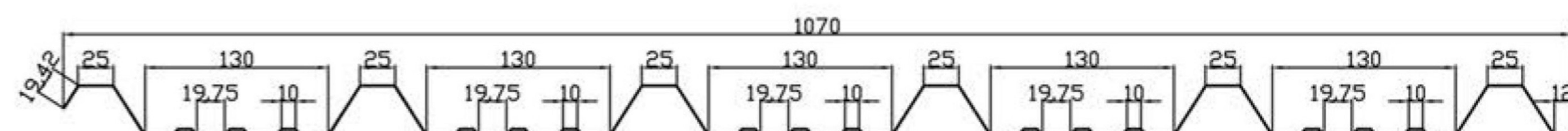
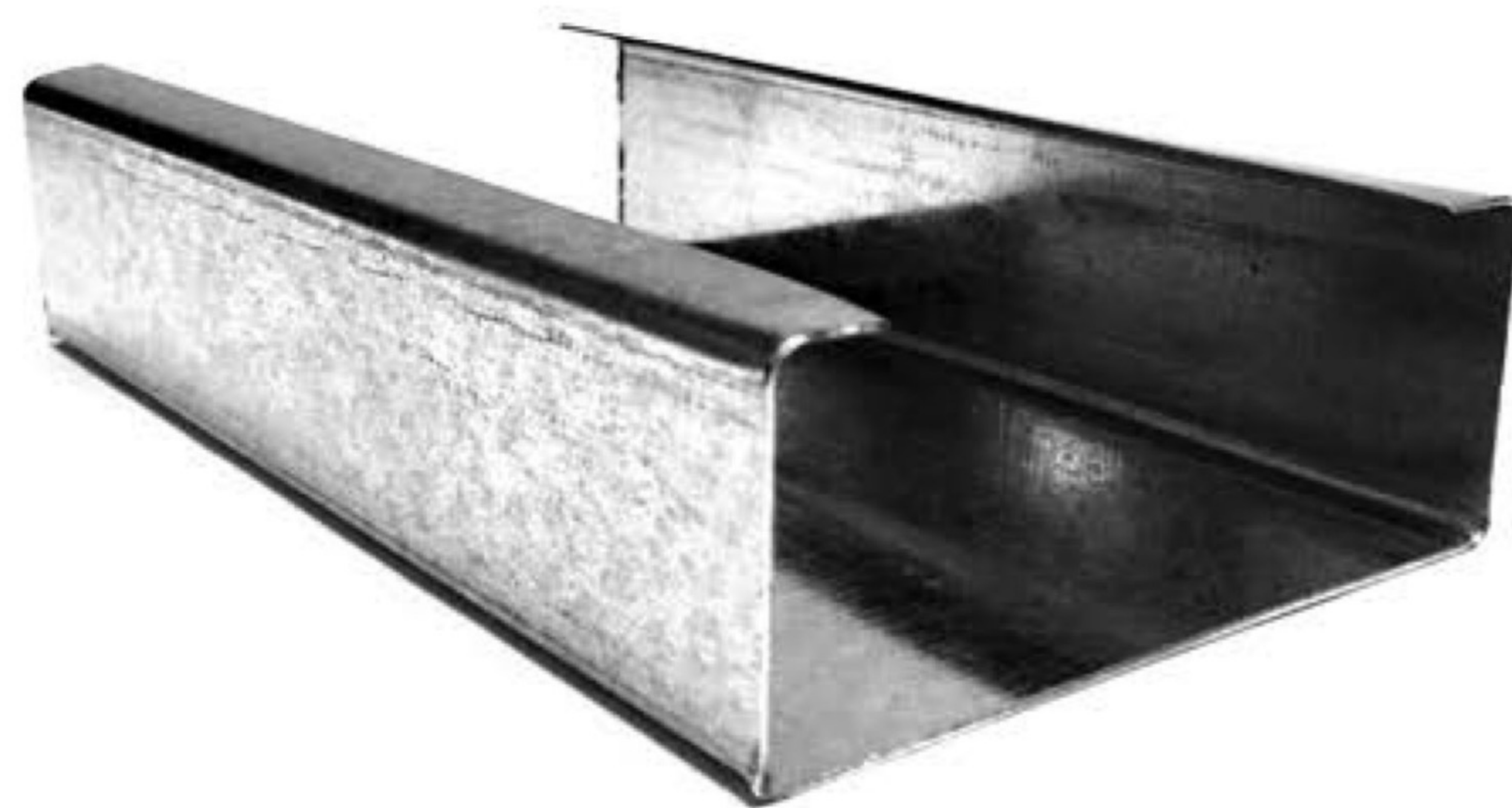


Step 3: ROLL FORMING

The final process is roll forming. The galvanizing slitted coil is loaded on the forming machine. Then cutting is done according to the specified length.



Decking Machine



ROOFING MATERIAL

PRODUCT DETAILS

- CONFIGURATIONS: 0.40 mm / 0.50 mm / 0.60 mm
- ANTI-RUST COATING: ALLOY COATING OF ALUMINUM AND ZINC
- COATING STANDARDS: AZ 150 (150GM/M2)
- TOP COAT: 18-20 MICRONS REGULAR MODIFIED POLYESTER WITH EPOXY PRIMER
- BACK COAT: 5-8 MICRONS
- LENGTH: UP TO TRANSPORTABLE LENGTH
- FASTENERS: WAFER TEKS, TEKSCREW FOR TIMBER AND STEEL

COLOR SWATCHES



BRIMSTONE BEIGE



BROMIDE BROWN



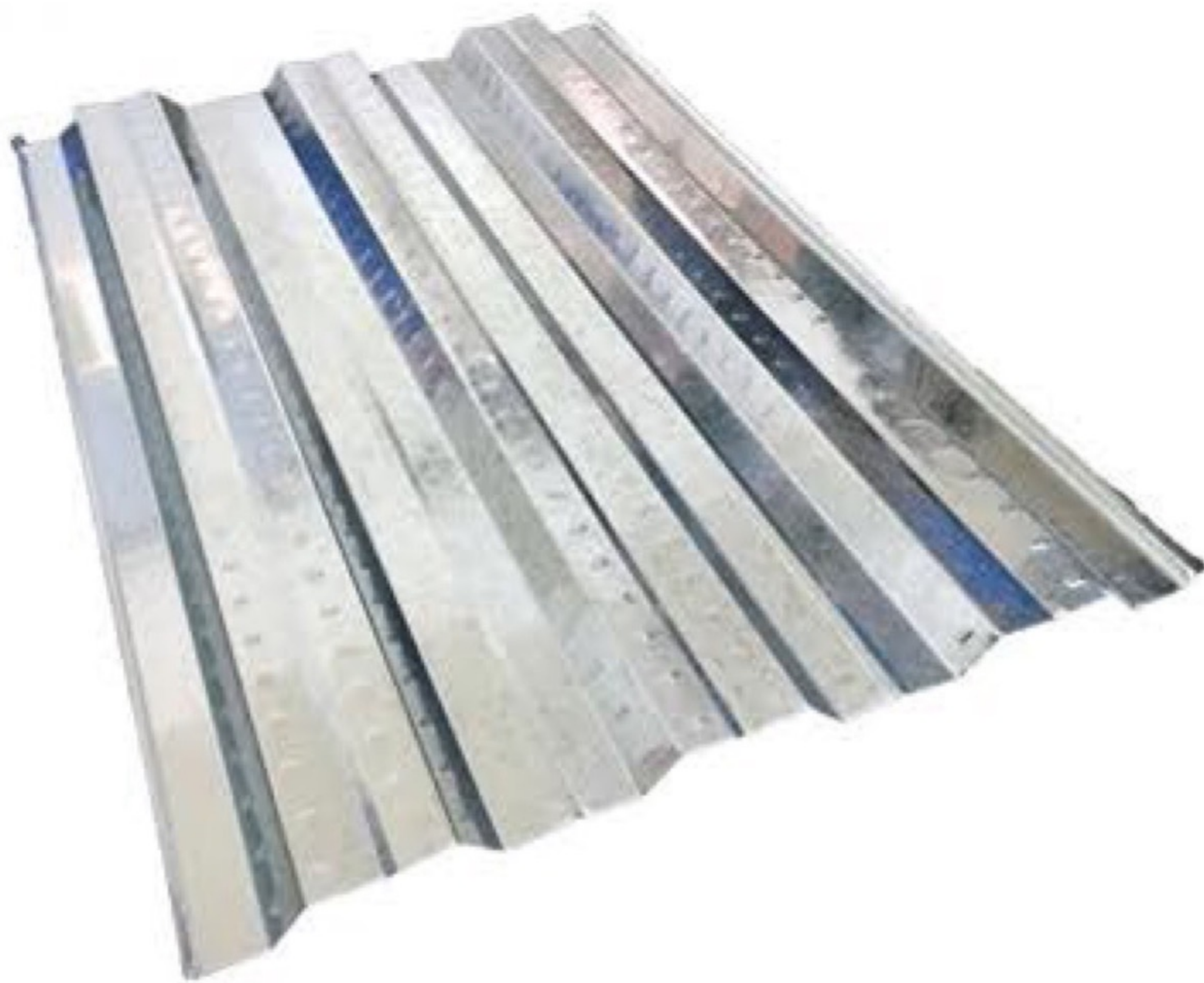
NITRO BLUE



HALOGEN GREEN



TITAN IVORY



- BASE METAL: COLD ROLLED STEEL
- SUBSTARTE: COMPLYING WITH ASTM A653

STEEL DECKING			
THICKNESS	0.80 MM	1.00 MM	1.20 MM
WEIGHT (KG/M2)	8.22	10.28	12.33
AREA (MM2)	1047.42	1309.27	1271.13
IX (MM4)	401011	504252	618904
STOP (MM3)	15312	19320	23813
SBOT (MM3)	16163	20251	24746
YTOP (MM)	26.19	26.10	25.99

WALL AND CEILING ASSEMBLIES

Metal Track



THICKNESS CONFIGURATIONS (mm)

HEIGHT

WIDTH

LENGTH

.40
.50
.60
.80

25 mm
32 mm

52 mm
64 mm
75 mm
92 mm
102 mm

3 M

Metal Stud



.40
.50
.60
.80

25 mm
32 mm

52 mm
64 mm
75 mm
92 mm
102 mm

3 M

Metal Furring



Double Furring .40 .60
.50 .80
Single Furring .40

19 mm

50 mm
25 mm

3 M

Wall Angle



.40
.50
.60
.80

25 mm

25 mm

2.44 M
3 M

C-Channel



.40
.50
.60
.80

38 mm

5 M

W-Clip

