ALEXFORM

ALEXANDRIA STEEL FORMING COMPANY

Cold Formed Sections

TÜV AUSTRIA

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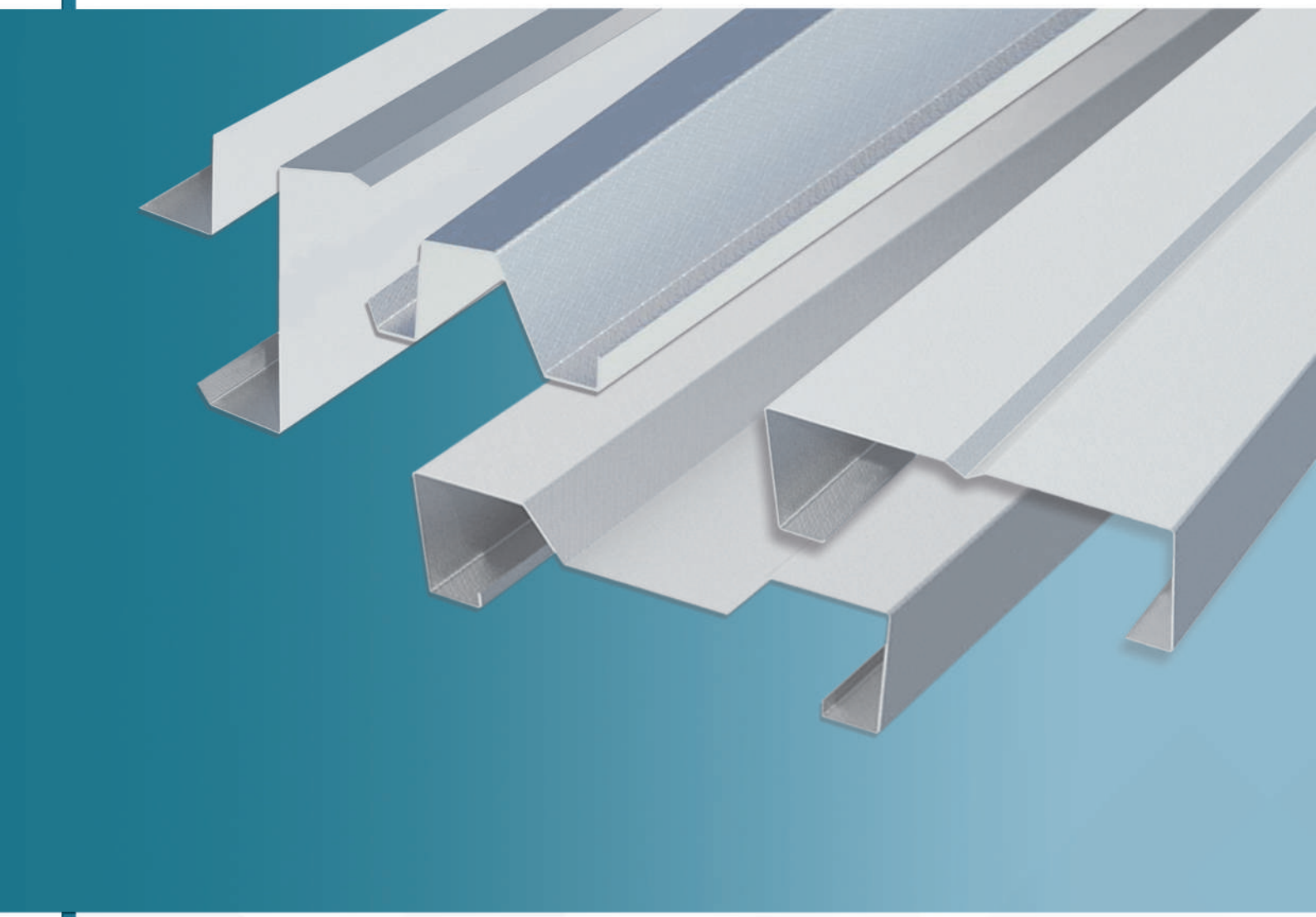

"We do not only build our customer's needs, as we also build a lifetime bond & trust always hoping for a better future"

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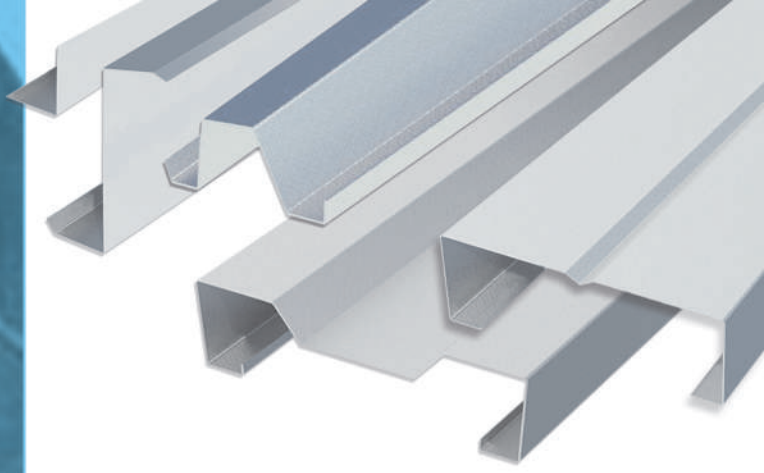


About Us:

Alexform is the leading manufacturer of cold rolled steel profiles, offering both quality products and reliable service to its customers via the most advanced production facilities in Egypt.

Since our inception we have provided quality products that proudly bear the tag ' Made in Egypt ' with over fifty years of experience in the steel business,we are capable of providing expert direction, meeting the specific needs of every customer.

Alexform provides integrated solutios by using new high quality products in the field of (Construction,storage, & Insulation products).

Mission & Strategy

Alex form Factory is committed to principles of sustainability while exploiting innovative technology to its fullest in order to ensure the satisfaction of consumers' needs in the global market scale. This commitment is aimed at enhancing the quality of life for everyone now and for future generations.

Vision

Our visions work as a blueprint to how we would like to build and grow every part of our organization by taking into consideration each vision when conducting business, in order to achieve the highest quality of service and satisfaction both by our customers and employees.

Products

Cold-Formed steel sections

Alex form Cold Formed steel profiles are manufactured and cut to size.

Cold-formed steel (CFS) section is the term used for products which are made by rolling or pressing thin gauges of steel sheets into goods. CFS goods are created by the working of thin steel sheets using stamping, rolling or presses to deform the steel sheets into a proper product which are usable. In the construction industry of steel, both the structural as well as the nonstructural parts are formed using the thin gauges of steel sheets.
The building materials can be of columns, studs,beams, floor decking, built up sections and other any parts of the structure.

CFS construction materials differ in many respects than other steel construction materials like hot rolled steel. The manufacturing of CFS products occurs at the room temperature with the use of rolling/pressing. The buckling property is used to analyze the strength of elements. The construction practices are just like the timber framing where the assembling stud frame using the screws.

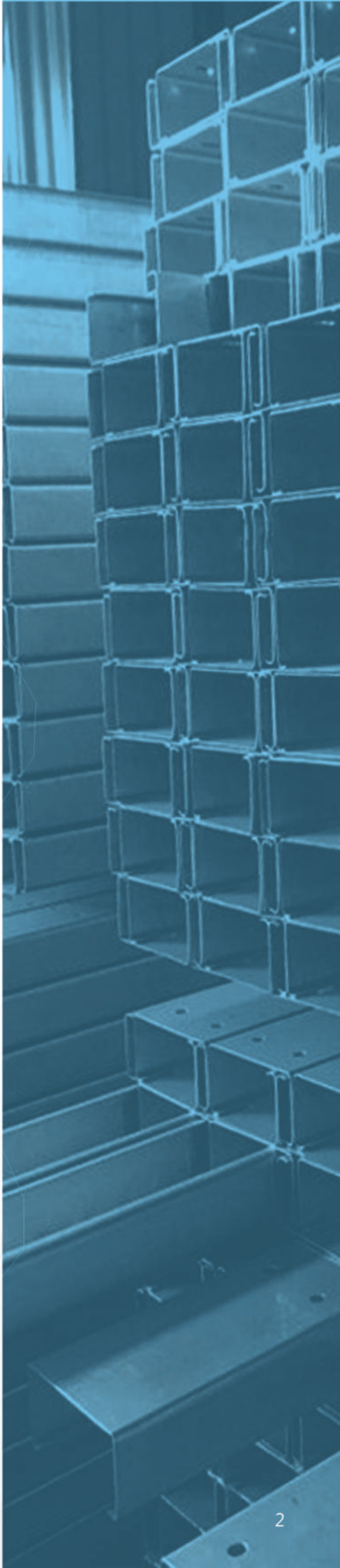
The applications of CFS members includes the buildings, building steel sheds, bridges, garages, car bodies, storage tanks, highway products, railway coaches, transmission towers, etc.

The coating of zinc or galvanizing is made to protect the cold-formed steel sections and this provides the protection against the corrosion in the environment.

Advantages of Cold-formed steel members:

There are many advantages of the cold-formed steel members are follows:

- Members are light in weight.
- Sections have High strength and stiffness.
- The erection and installation procedure is very easy.
- The conventional connection methods like riveting, bolting or welding can be used.
- The construction process does not need any kind of formwork.
- The desired shape and desired length are obtained by prefabrication process.
- The transportation cost is lower as the lightweight sections are available.
- The recycling of this type of material is possible easily.



General Notes:

Standard lengths

Cold Formed steel profiles are available as per client requirement between 2000 mm and 14000 mm.

Custom Formed shapes

If design requirements call for sections other than those listed in this brochure, could be discussed for fabrication ability.

Specifications

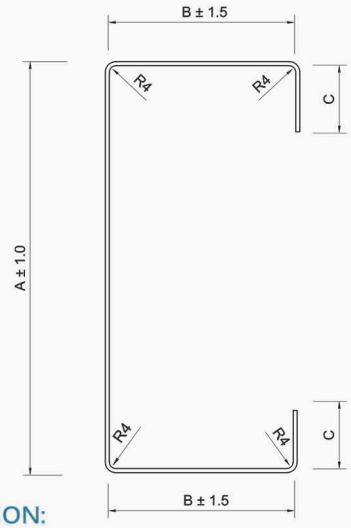
The information in this brochure is correct at the time of printing. However, specifications are subject to change without notice.

Projects: List of Major projects

Project	Main contractor	Location	Year
Wataniya Poulty slaughter house	Alexsteel	Egypt	2012
Slaughter house	C line	Sudia Arabia	2013
Inducsterial warehouse	TITAN	Egypt	
Grand museusm	NSF	Egypt	2014
Mall of Egypt	NSF	Egypt	2015
Mall of Arab	Alexsteel	Egypt	2015
Bani Sweif power plant	EL- Sewedy	Egypt	2016
Inducsterial warehouse	TECHNO GROUP	Jordan	2016
NCIC	Hassan Allam Construction	Egypt	2017
Inducsterial warehouse	Qatar Building Engineering Company	Qatar	2017
MAll of Tanta	Alexsteel	Egypt	2017
New capital	Hassan Allam Construction	Egypt	2017
Sidi gaber bridge	El garably	Egypt	2017
Madinaty	Talaat Mostafa	Egypt	
Mohamed Najeeb Militry base	Alexsteel	Egypt	2017
Submarine Hanger	Alexsteel	Egypt	2017
Solar Power farm	Arcelormittal	Egypt	2017
Royal City	Alexsteel	Egypt	2017
Suez Steel Factory	ASF	Egypt	2018
Third Metro line 4B - Depot 2,3&5	Arab cotractor	Egypt	2018
Third Metro line 4B - Depot 7&24	Orascom Construction	Egypt	2018
Madinaty open air mall	Alpha constrcution	Egypt	2018
SIMENS	El-Zamil steel	Egypt	2018
Egnineering survices warehouse	Orascom Construction	Egypt	2018
Berniece Air port	Hassan Allam Construction	Egypt	2019

CEE section purlins (AF-CC)

CEE section purlins are accurately roll formed from high strength steel to provide an efficient, light weight and economical roofing and cladding support system for structural steel buildings. The thickness and height of the purlin selected depend on span length and loads.



CONSTRUCTION:

Nominal Size	Dim. "A"	Dim. "B"	Dim. "C"	MATERIAL THICKNESS									
				1.50	1.70	1.90	2.00	2.25	2.65	3.00	3.35	3.75	4.00
400 * 98	400	98	25						●	●	●	●	●
360 * 98	360	98	22						●	●	●	●	●
340 * 98	340	98	22						●	●	●	●	●
300 * 98	300	98	22					●	●	●	●	●	●
260 * 85	260	85	25					●	●	●	●	●	●
240 * 75	240	75	25			●	●	●	●	●	●	●	●
200 * 75	200	75	25		●	●	●	●	●	●	●	●	●
160 * 60	160	60	22	●	●	●	●	●	●	●	●	●	●
140 *60	140	60	22	●	●	●	●	●	●	●	●	●	●
120 * 60	120	60	22	●	●	●	●	●	●	●	●		
100 * 55	100	50	25	●	●	●	●	●	●	●	●		

NOTE: lip size (Dim. c) = 20mm when t = 2.5mm or less.
lip size must be more than 20mm when t > 2.5 mm.

SOLAR CELL:

Dim. "A"	Dim. "B"	Dim. "C"	Material Thickness
60	30-40	10:20	MAX. 2.5
70:100	30-40	10:20	MAX. 2.5
110:200	40	10:20	MAX. 2.5

NOTE: we are looking to add leg 60mm and 70mm the soonest.

Dim in mm.

Material: Galvanized/Black iron

Steel Grade S250, S350 and S420.

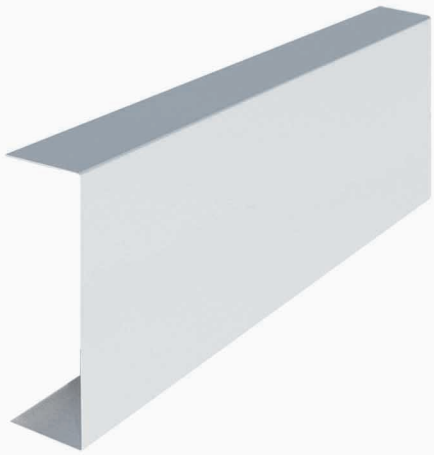
Blank Width are based on 2.5 mm thickness.

Dim "C" varies with blank width and Material thickness.

Tolerances: **According to EN 10162.**
BOW 1 mm per meter
CAMBER 1 mm per meter
TWIST 1 mm per meter
FLARE ±3 mm within 200 mm of each end

U section purlins (AF-C)

U section purlins are accurately roll formed from high strength steel to provide an efficient, light weight and economical roofing and cladding support system for structural steel buildings. The thickness and height of the purlin selected depend on span length and loads.



	Nominal Size	Dim. "A"	Dim. "B"	MATERIAL THICKNESS									
				1.00	2.00	2,25	2.65	3.00	3.35	3.75	4.00	4.25	4.75
CONSTRUCTION	400 * 98	400	98		●	●	●	●	●	●	●	●	●
	200 * 80	200	80		●	●	●	●	●	●	●	●	●
	200 * 50	200	50		●	●	●	●	●	●	●	●	●
	160 * 40-75	160	40 - 75	●	●	●	●	●	●	●	●	●	●
	150 * 100	150	98		●	●	●	●	●	●	●	●	●
	150 * 80	150	80		●	●	●	●	●	●	●	●	●
	150 * 50	150	50		●	●	●	●	●	●	●	●	●
	125 * 100	125	98		●	●	●	●	●	●	●	●	
	125 * 80	125	80		●	●	●	●	●	●	●		
	125 * 50	125	50		●	●	●	●	●	●	●		
	100 * 80	100	80		●	●	●	●	●	●	●		
	100 * 50	100	50		●	●	●	●	●	●	●		
	100 * 40	100	40		●	●	●	●	●	●	●		
More sizes	80 * 30-75	80	30 - 75	●	●	●	●	●	●	●	●		
	60 * 30-75	60	30 - 75	●	●	●	●	●	●	●	●		
	50 * 30-75	50	30 - 75	●	●	●	●	●	●	●	●		
	40 * 30-75	40	30 - 75	●	●	●	●	●	●	●	●		

Web Range	Leg Range	Thickness Range
20 : 100 mm	10 : 30 mm	0.5 : 1 mm

Dim in mm.

Material: Galvanized/Black iron

Steel Grade S250, S350 and S420.

Blank Width are based on 2.5 mm thickness.

Dim "C" varies with blank width and Material thickness.

Tolerances: **According to EN 10162.**

BOW 1 mm per meter

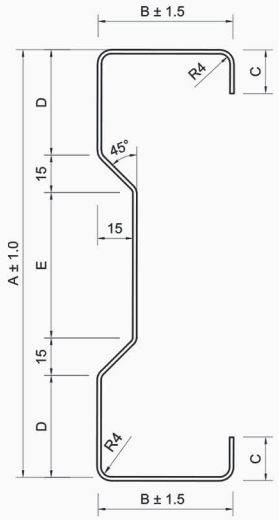
CAMBER 1 mm per meter

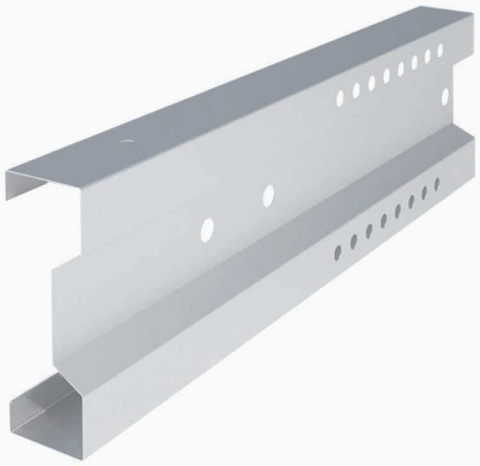
TWIST 1 mm per meter

FLARE ±3 mm within 200 mm of each end

Sigma section purlins (AF-SG)

Sigma section purlins are accurately roll formed from high strength steel to provide an efficient, light weight and economical roofing and cladding support system for structural steel buildings. The thickness and height of the purlin selected depend on span length and loads.





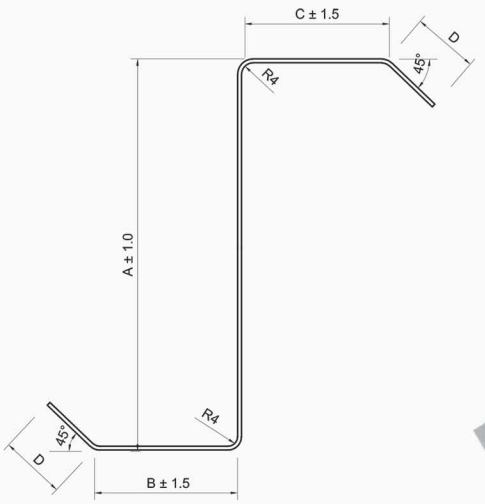
Nominal Size	Dim. "A"	Dim. "B"	Dim. "C"	MATERIAL THICKNESS									
				1.50	1.70	1.90	2.00	2.25	2.65	3.00	3.35	3.75	4.00
400 * 90	400	90	25						●	●	●	●	●
360 * 90	360	90	25					●	●	●	●	●	●
300 * 80	300	80	25				●	●	●	●	●	●	●
260 * 80	260	80	22			●	●	●	●	●	●	●	●
200 * 65	200	65	22		●	●	●	●	●	●	●		
170 * 60	170	60	22	●	●	●	●	●	●	●			

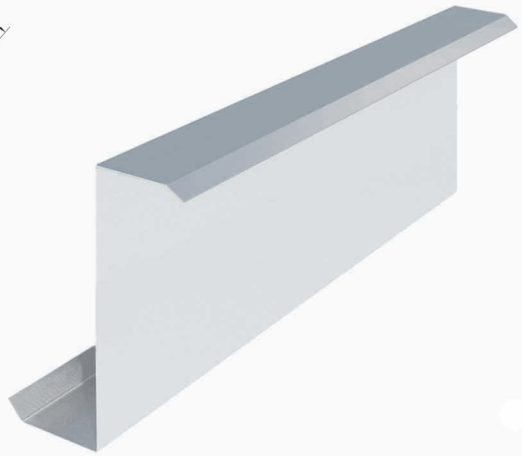
Dim. "D" = 48 Min. to 100 Max.
Dim. "E" = 40 Min. to 170 Max.
Dim in mm.
Material: Galvanized/Black iron
Steel Grade S250, S350 and S420.
Blank Width are based on 2.5 mm thickness.
Dim "C" varies with blank width and Material thickness.

Tolerances: **According to EN 10162.**
BOW 1 mm per meter
CAMBER 1 mm per meter
TWIST 1 mm per meter
FLARE ±3 mm within 200 mm of each end

ZEE section purlins (AF-Z)

ZEE section purlins are accurately roll formed from high strength steel to provide an efficient, light weight and economical roofing and cladding support system for structural steel buildings. The thickness and height of the purlin selected depend on span length and loads.





Nominal Size	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	MATERIAL THICKNESS									
					1.50	1.70	1.90	2.00	2.25	2.65	3.00	3.35	3.75	4.00
305 * 90	305	90	90	25						●	●	●	●	●
250 * 90	250	90	90	25						●	●	●	●	●
200 * 60	200	60	60	25						●	●	●	●	●
100 * 60	100	60	60	25					●	●	●	●	●	●
100 * 50	100	50	50	19					●	●	●	●	●	●
90 * 50	90	50	50	19			●	●	●	●	●	●	●	●

Material: Galvanized/Black iron

Steel Grade S250, S350 and S420.

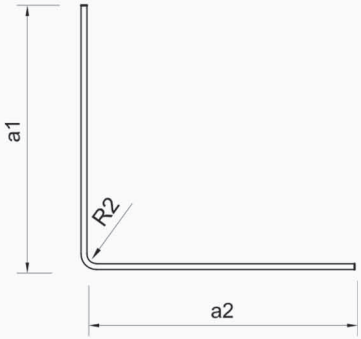
Twist tolerance to be defined as follows:

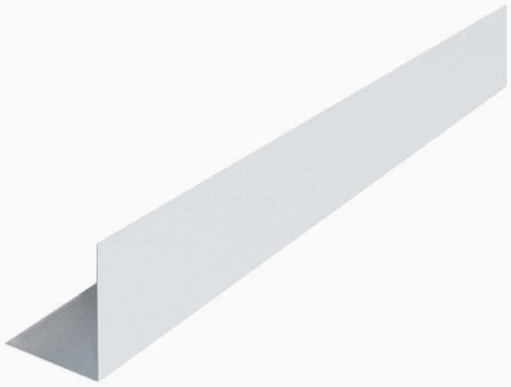
Zee purlins with web width (Dim. "A") of 100 mm or less cannot be expected to be without twist.

All Zee`s with leg lengths ( Dim.`s "B" & "C") of 54 mm or more cannot have lip lengths (Dim. "D") greater than 28 mm.
All Zee`s with leg lengths less than 54 mm cannot have lip lengths greater than 19 mm.

Angle section (AF-RL)

Steel Angles are the most basic type of roll-formed steel. They are formed by bending a single angle in a piece of steel. Angle Steel is 'L' shaped; the most common type of Steel Angles are at a 90 degree angle. The legs of the "L" can be equal or unequal in length. Steel angles are used for various purposes in a number of industries. Framing is one of the most common uses for steel angles, but steel angles are also used for brackets, trim, reinforcements, and many other uses.





Nominal Size	Dim. "a1"	Dim. "a2"	MATERIAL THICKNESS 1.00 → 4.00
100 * 100	100	100	● → ●
95 * 95	95	95	● → ●
90 * 90	90	90	● → ●
85 * 85	85	85	● → ●
80 * 80	80	80	● → ●
75 * 75	75	75	● → ●
70 * 70	70	70	● → ●
65 * 65	65	65	● → ●
60 *60	60	60	● → ●
55 * 55	55	55	● → ●
50 * 50	50	50	● → ●
45 * 45	45	45	● → ●
40 * 40	40	40	● → ●

More sizes	Min. 20 mm Max. 100 mm Thickness: Max. 4mm

You can use An equal Angle (Any Dimension you want between 40 to 100 mm)

Dim in mm.

Material: Galvanized/Black iron

Steel Grade S250, S350 and S420.

Blank Width are based on 2.5 mm thickness.

Dim "C" varies with blank width and Material thickness.

Tolerances: **According to EN 10162.**

BOW 1 mm per meter

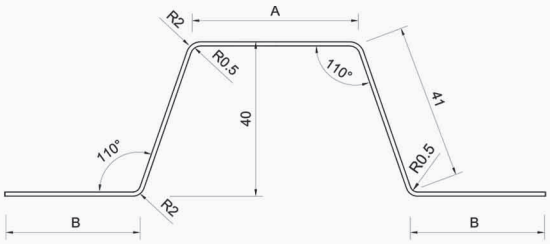
CAMBER 1 mm per meter

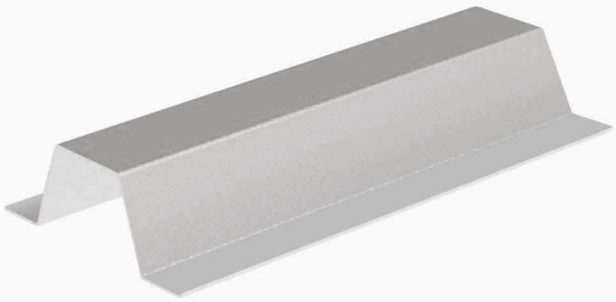
TWIST 1 mm per meter

FLARE ±3 mm within 200 mm of each end

Omega section purlins

• Omega without lip (AF-OG) :



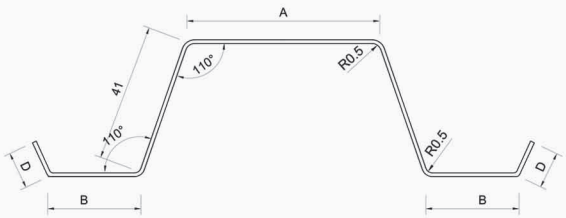


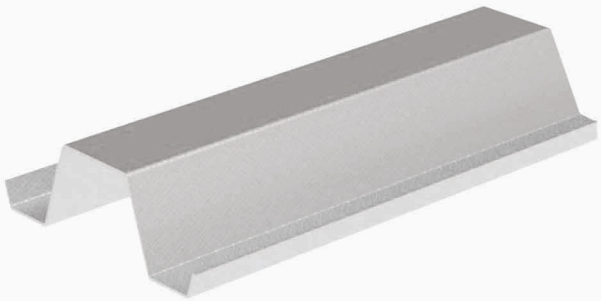
T		A		B	
From	To	From	To	From	To
0.5	1.5	43.7	50	24.5	70
0.5	1.5	43.7	60	24.5	60
0.5	1.5	43.7	70	24.5	55
0.5	1.5	43.7	80	24.5	50

Dim in mm.

Material: Galvanized/Black iron
Steel Grade S250, S350 and S420.

• Omega with lip (AF-OGL):





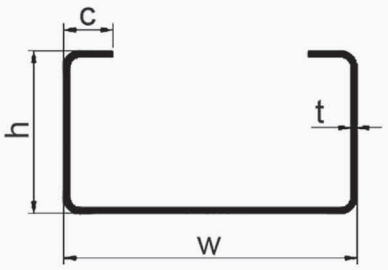
T		A		B		D	
From	To	From	To	From	To	From	To
0.5	1.5	43.7	50	24.5	65	5	20
0.5	1.5	43.7	60	24.5	60	5	20
0.5	1.5	43.7	70	24.5	55	5	15
0.5	1.5	43.7	80	24.5	50	5	15

Dim in mm.

Material: Galvanized/Black iron
Steel Grade S250, S350 and S420.

Special cross sections

• C - Channel Profile (AS-CC):

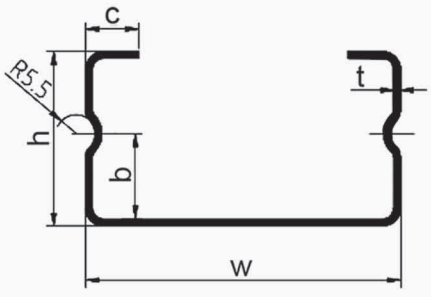


w		h		c		t	
From	To	From	To	From	To	From	To
90	140	36	50	17	20	1.20	2.00
140	200	50	80	20	20	1.50	2.50
200	300	50	80	20	25	2.00	3.50

Dim in mm.

Material: Galvanized/Black iron
Steel Grade S250, S350 and S420.

• C - Channel Profile with notch on leg (AS-CNF):



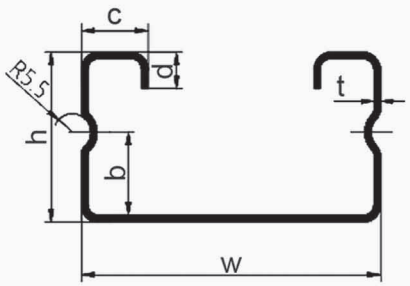
w		h		c		t		b
From	To	From	To	From	To	From	To	
90	140	36	50	17	20	1.20	2.00	
140	200	50	80	20	20	2.00	2.50	20:40
200	300	50	80	20	25	2.00	3.50	

Dim in mm.

Material: Galvanized/Black iron
Steel Grade S250, S350 and S420.

Special cross sections

• C - Channel plus profile with notch on leg (AS-CC-NF+):

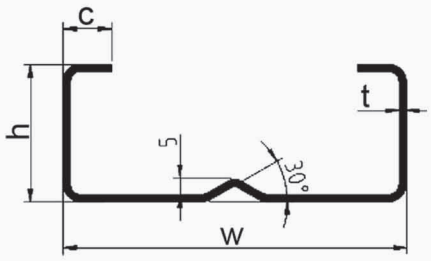


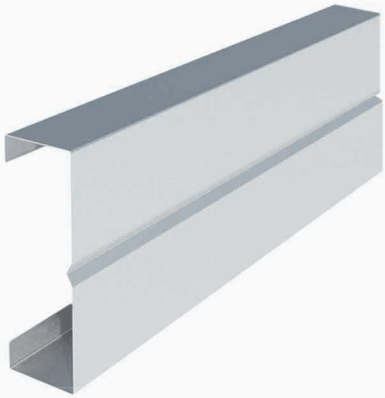
w		h		c	d	t		b
From	To	From	To			From	To	
140	200	50	80	25	10	1.20	2.50	25:40
200	300	50	80	25	10	2.00	3.50	

Dim in mm.

Material: Galvanized/Black iron
Steel Grade S250, S350 and S420.

• C - Channel Profile with notch on web (AS-CC-NW):





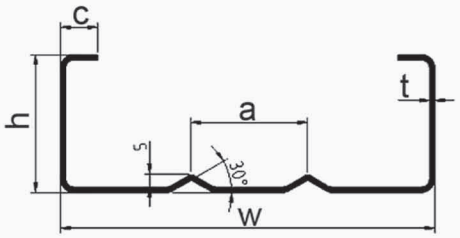
w		h		c		t	
From	To	From	To	From	To	From	To
100	140	36	50	17	20	1.20	2.00
140	300	50	80	20	20	2.00	2.50

Dim in mm.

Material: Galvanized/Black iron
Steel Grade S250, S350 and S420.

Special cross sections

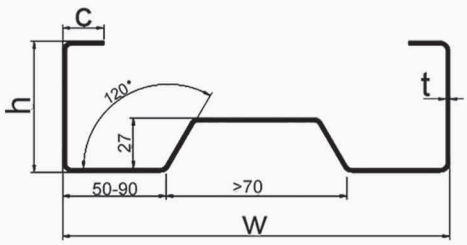
• C - Channel Profile with 2 notches on web (AS-CC-DNW):

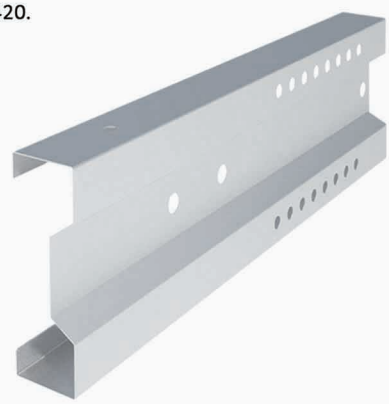


w		h		c		t		a
From	To	From	To	From	To	From	To	
200	300	50	80	20	25	2.00	3.50	80:180

Dim in mm. Material: Galvanized/Black iron **Steel Grade S250, S350 and S420.**

• Sigma Profile (AS-SG):

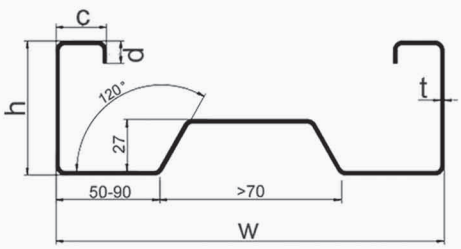


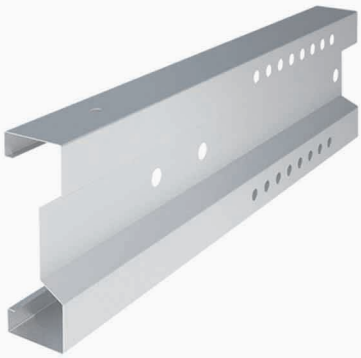


w		h		c		t	
From	To	From	To	From	To	From	To
170	250	50	80	22	22	1.50	3.50

Dim in mm. Material: Galvanized/Black iron **Steel Grade S250, S350 and S420.**

• Sigma plus Profile (AS-SG+):



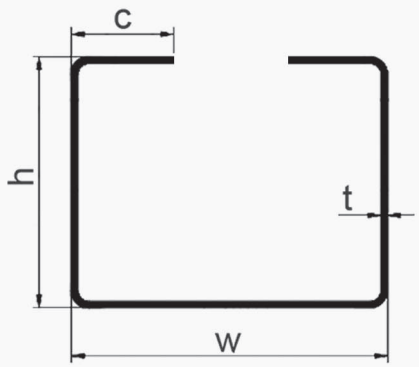


w		h		c	d	t	
From	To	From	To			From	To
170	250	50	80	25	10	1.50	3.50

Dim in mm. Material: Galvanized/Black iron **Steel Grade S250, S350 and S420.**

Special cross sections

• High thickness wide leg profile:
C - Channel profile (AF-CC-WL):



h	36	40	50	60	70	80	90	100	110	120	130	135
w												
520	●	●										
500	●	●	●									
480	●	●	●	●								
460	●	●	●	●	●							
440	●	●	●	●	●	●						
420	●	●	●	●	●	●	●					
400	●	●	●	●	●	●	●	●				
380	●	●	●	●	●	●	●	●	●			
360	●	●	●	●	●	●	●	●	●	●		
340	●	●	●	●	●	●	●	●	●	●	●	
320	●	●	●	●	●	●	●	●	●	●	●	●
300	●	●	●	●	●	●	●	●	●	●	●	●
380	●	●	●	●	●	●	●	●	●	●	●	●
360	●	●	●	●	●	●	●	●	●	●	●	●
240	●	●	●	●	●	●	●	●	●	●	●	●
220	●	●	●	●	●	●	●	●	●	●	●	●
200	●	●	●	●	●	●	●	●	●	●	●	●
180	●	●	●	●	●	●	●	●	●	●	●	●
160	●	●	●	●	●	●	●	●	●	●	●	●
140	●	●	●	●	●	●	●	●	●	●	●	●
125	●	●	●	●	●	●	●	●	●	●	●	●

h	36	40	50	60	70	80	90	100	110	120	130	135
C	10	11	20	25	25	25	28	31	34	37	42	42

Dim in mm.

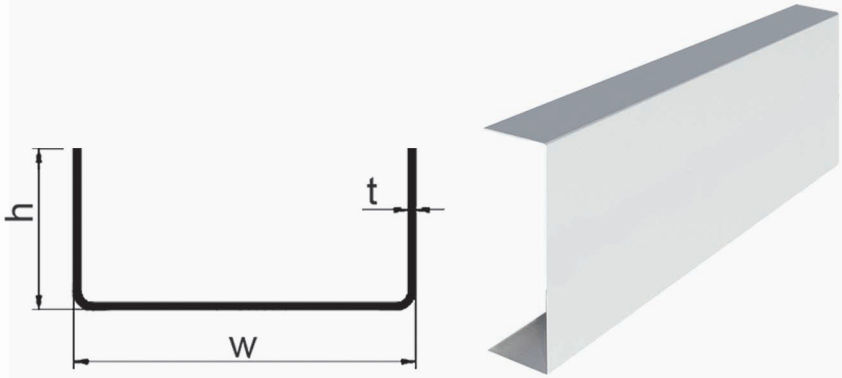
Material: Galvanized/Black iron

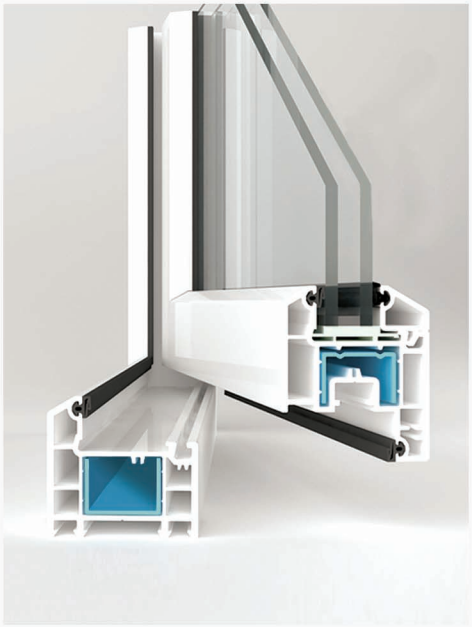
According to EN 10162.

Steel Grade S250, S350 and S420.

PVC - U Sections

• U Section without notch (AF-PVC-C):



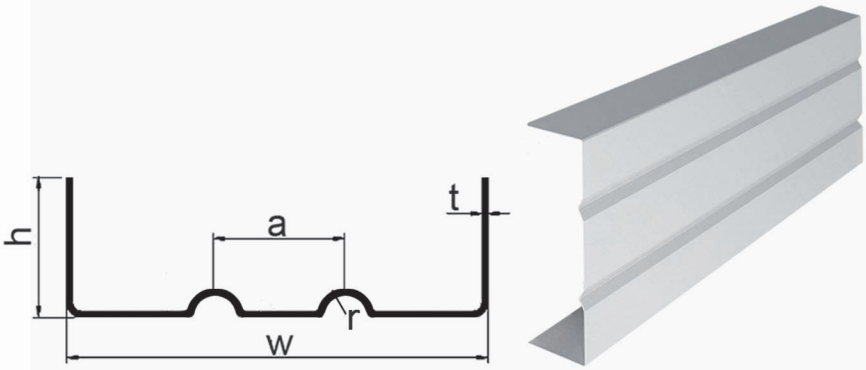


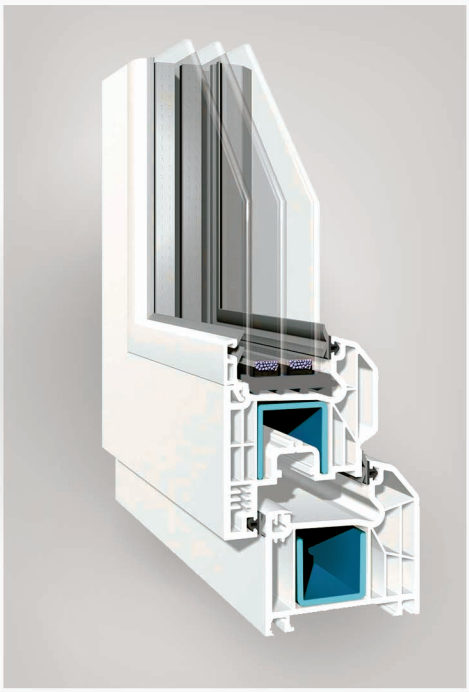
w		h		t	
From	To	From	To	From	To
24	50	10	33	0.70	1.00

Dim in mm.

Material: Galvanized/Black iron

• U Section without notch (AF-PVC-CDN):





w		h		t		a		r
From	To	From	To	From	To	From	To	
30	50	10	30	0.7	1.00	18	18	2.25

Dim in mm.

Material: Galvanized/Black iron

Materials

For many industries, steel is considered as one of the most important foundational materials. As an alloy of iron, notable properties of the metal include its strength and durability.
However, like any other material, it has its limits. Corrosion is a common issue that affects iron's durability, and environmental factors such as salt and pollution can cause further harm to the metal's overall state.
Galvanized steel has a special coating created from zinc that protects it from rust over time due to contaminants in the air.Yet, it still remains susceptible to corrosion — the primary zinc layer can easily be broken down, and potentially create more damage to the iron.

To ensure long lifetime for the structure, extensive protection layer are applied to the steel to ensure its function ability over lifetime. The steel is normally protected by one of the following applications:

Hot-dip zinc coating (Z):

Application of a zinc coating by immersing the prepared strip in a molten bath of zinc, the zinc content is at least 99%.

Hot-dip zinc-aluminum coating (ZA):

Application of a zinc-aluminum coating by immersing the prepared strip in a molten bath of zinc-aluminum. The composition of the bath is approximately 5% aluminum, small amounts of mischmetal and the balance zinc.

Hot-dip aluminum-zinc alloy coating (AZ):

Application of an aluminum-zinc coating by immersing the prepared strip in a molten bath of aluminium-zinc-silicon. The composition of the bath is 55% of aluminum, 1,6% of silicon and the balance zinc.

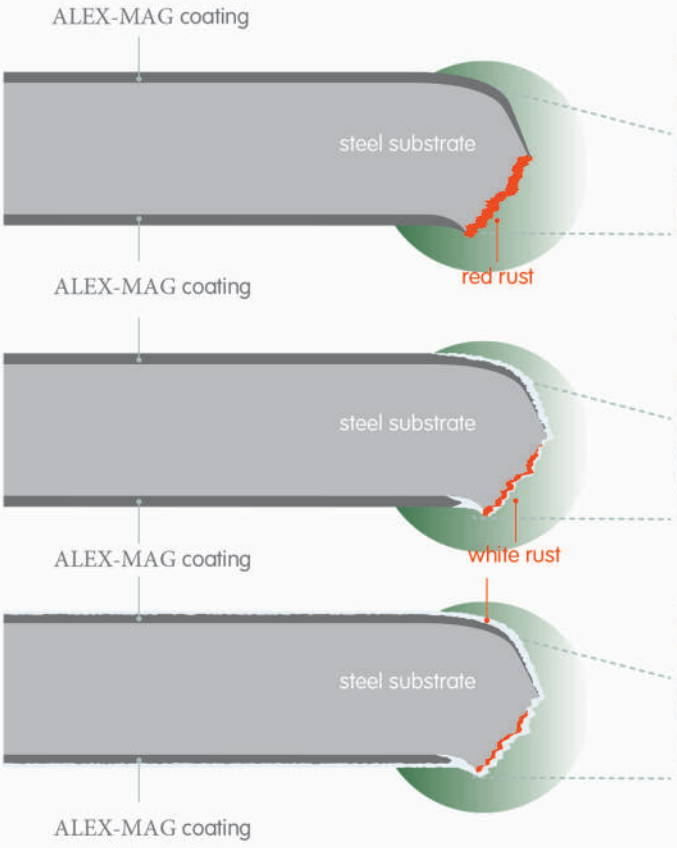
Hot dip zinc-magnesium coating (ZM):

Application of a zinc-magnesium coating by immersing the prepared strip in a molten bath of zinc-aluminum-magnesium.
The composition of the bath is sum of aluminum and magnesium from 1,5 % to 8 %, containing minimum of 0,2 % magnesium and the balance zinc.

Edge protection with self-healing effect:

When exposed to the environment, Magnelis® forms a very dense zinc-based protective film, unlike galvanised where the film is very porous.

This unique dense film is also formed on edges, welds, perforations and scratches. In case some red rust was present on these uncoated zones, the red rust will be gradually covered by the Magnelis® film. It is almost impossible for the environment to penetrate this film. The result is that Magnelis® provides perfect protection of the whole structure, even on the uncoated edges, scratches and perforations.



Initial exposure period (up to several weeks)*

The exposed cut end of the substrate is oxidised and forms red rust.

Subjected to rain and condensation (beyond several weeks)*

The zinc-based film containing magnesium on the coating layer migrates over the cut end.

Long exposure period (after more than a year)*

Disappearing of red rust and increasing of white rust.

** The speed of the self-healing may depend on the environment.*

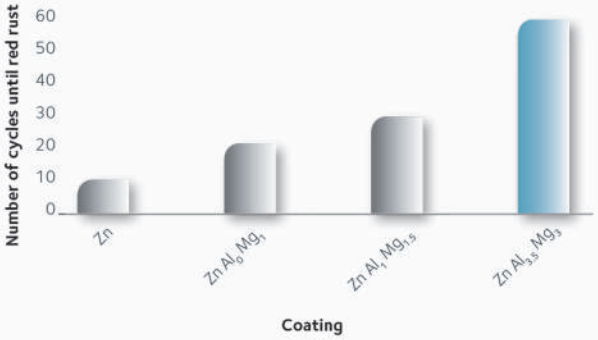
Technical specifications:

Coating Designation		ZM70	ZM90	ZM120	ZM175	ZM200	ZM250	ZM310	ZM430
Coating Mass (total both sides)	g/m²	70	90	120	175	200	250	310	430
	oz/ft²	0.23	0.30	0.40	0.60	0.65	0.80	1.00	1.40
Coating Thickness	(µm/per side)	5	7	10	14	16	20	25	35
Aspect		MA and MB aspect							
Surface Treatment		C (E-Passivation® CrVI-free), O (oiled)							
Thickness		0.45 to 6.00 mm (0.018 to 0.236 inches)							
Width		Up to 1680 mm (66 inches)							
Steel grades									

HX260 LAD to HX460 LAD + ZM
H240 + ZM

The following figure show the performance of zinc coating different types against corrosion resistance:

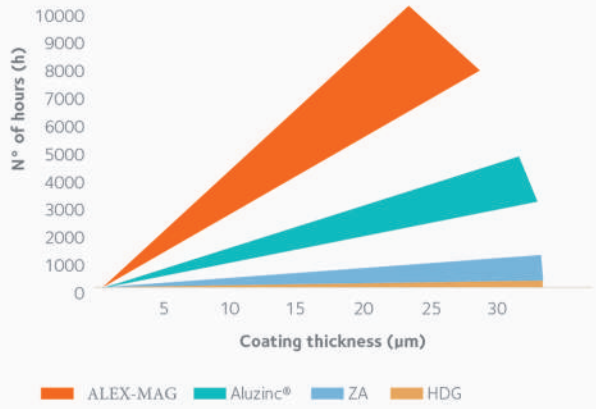
Corrosion resistance in cyclic test for different Zn, Al, Mg compositions



10 µm of coating submitted for an alternating cycle of 8 hours: fog cycle (5% NaCl)/dry cycle/humidity cycle
Source: R&D researches

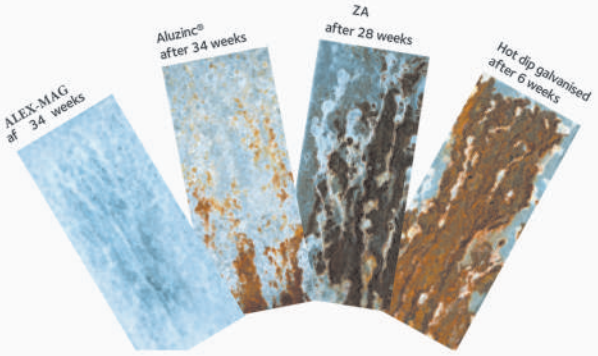
The following shape show the behavior of zinc coating against salt spray test, where it show better performance for Zm coating against other types of coating:

N° of hours before appearance of 5% red rust



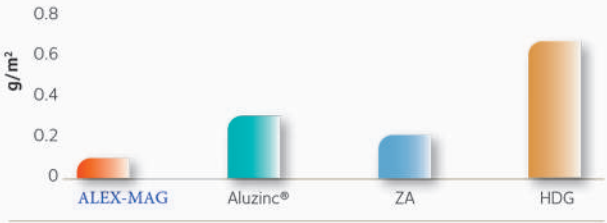
Corrosion resistance by salt spray test (average) :
ALEX-MAG: > 200 h/µm - Aluzinc®: ±100 h/µm - ZA: ± 25 h/ um Hot dip galvanised (HDG): ± 8-10 h/um

In highly alkaline environments (pH between10 and 13), Magnelis® demonstrates superior corrosion resistance compared to other metallic coatings.
Due to its chemical composition, the product has better quality characteristics in terms of barrier protection against corrosion in an ammonia environment.



Salt spray test
20 µm coating per side

Weight loss in harshest environments



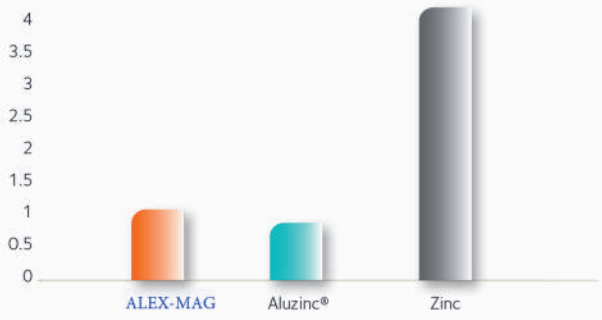
Measurement of mass loss
pH: 11.7 - Solution with 5% NH_3 - T: 20°C - Test duration 24 h

Environmentally responsible:

The application of Magnelis ensures the preservation of natural resources since it uses less zinc than pure zinccoatings. Moreover, like Aluzinc®, Magnelis® reduces considerably the zinc runoff* in soils.

*Runoff rate: the rate of dissolution of a material from its surface into the external environment (in g/m2/year).
In our case: the quantity of zinc washed from the surface by falling rain water.

Zinc runoff rate (g/m2/year)



Brest (France)
Maritime category C3 (average)
Institut Français de la Corrosion

Applications:

Warranties in years for Magnelis® ZM310 and Aluzinc® AZ185

Types of system	Segment	Metallic coating	Environment			
			Normal RURAL URBAN INDUSTRIAL (C4,C3,C2)	Severe INDUSTRIAL (C5-I)	AGRICULTURAL *(animal sheds-fertiliser storage…)* (C4,C5)	SEAFRONT *300 to 2000 m* (C5-M)
Building systems Residential and semi-industrial buildings	*Roofing/Cladding support of photovoltaic panels*	Magnelis® ZM310	25	E	E	20
		Aluzinc® AZ185	25	E	NA	NA
	Narrow profiles supporting solar panels	Magnelis® ZM310	25	E	E	20
	Adaptative sheets for integration of photovoltaic panels, casings for thermal panels	Magnelis® ZM310	25*	E	E	20*
		Aluzinc® AZ185	25*	E	NA	NA
Ground-mounted systems	*Structures*	Magnelis® ZM310	25	E	E	20

E : Guarantee not automatic. Will be provided only after receipt of a questionnaire
NA : Not adapted
* : Granted by specific project
..... : preferred solution

Material Equivalent:

Magnelis® and Aluzinc® are the two metallic coated steels in comprehensive range for the roll formed market. Both are eco-friendly, ensuring the preservation of natural resources by using less zinc than pure zinc coatings. Moreover, like Aluzinc®, Magnelis® considerably reduces zinc run-off in soil.
Magnelis® ZM310 is the best product from the corrosion resistance point of view, with a coating thickness of 25 microns. Its chemical composition – 93.5% zinc, 3.5% aluminium and 3% magnesium is optimised to ensure exceptional behaviour at cut edges due to self-healing. All these properties make it particularly suitable for structures made from roll formed profiles

Zink Coating	Equivalent Magnelis coating	Remark
Z100 (7 µm)	Magnelis ZM80	a) ZM80 will be much better than Z100 b) ZM80 is today lowest available coating weight (lower coating weight is in development)
Z140 (10 µm)	Magnelis ZM80	ZM80 much more performant than Z140
Z200 (14 µm)	Magnelis ZM90 (7 µm)	
Z225 (16 µm)	Magnelis ZM90 (7 µm)	
Z275 (20µm)	Magnelis ZM120 (10µm)	
Z350 (25 µm)	Magnelis ZM175 (14 µm)	
Z450 (31 µm)	Magnelis ZM195 (16 µm)	
Z600 (42 µm)	Magnelis ZM250 (20 µm)	
batch galvanised	Magnelis ZM310 (25 µm)	Edges are protected thanks to the self healing effect

Certificates

TÜV AUSTRIA EN ISO 9001 : 2015 ISO 9001


CERTIFICATE

TÜV AUSTRIA

Management System as per
EN ISO 9001 : 2015

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

ALEXANDRIA STEEL FORMING (ALEXFORM / ALEXPANEL)
K21 Merghm, Alex - Cairo Desert Road
ALEXANDRIA, EGYPT

Applies a Quality Management System in line with the above Standard for the following Scope

STEEL COLD FORMING SERVICE, MANUFACTURING AND SANDWICH PANEL PRODUCTION.

Certificate Registration No.: 20001190001605

Valid until: 2022-05-25
Initial certification: 2016-05-25

Athens, 2019-05-31

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.

TÜV AUSTRIA HELLAS
435, Mesogeion Ave.
GR-153 43 Athens, Greece
www.tuvaustriahellas.gr

TÜV AUSTRIA ISO 14001 : 2015 ISO 14001


CERTIFICATE

TÜV AUSTRIA

Management System as per
EN ISO 14001 : 2015

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

ALEXANDRIA STEEL FORMING (ALEXFORM / ALEXPANEL).
K21 Merghm, Alex - Cairo Desert Road, ALEXANDRIA, EGYPT.

Applies an Environmental Management System in line with the above Standard for the following Scope

STEEL COLD FORMING SERVICE, MANUFACTURING AND SANDWICH PANEL PRODUCTION.

Certificate Registration No.: 20001190001606

Valid until: 2022-05-25
Initial certification: 2016-05-25

Athens, 2019-05-31

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.

TÜV AUSTRIA HELLAS
435, Mesogeion Ave.
GR-153 43 Athens, Greece
www.tuvaustriahellas.gr

TÜV AUSTRIA ISO 45001 : 2018 ISO 45001


CERTIFICATE

TÜV AUSTRIA

Management System as per
ISO 45001 : 2018

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

ALEXANDRIA STEEL FORMING (ALEXFORM / ALEXPANEL).
K21 Merghm, Alex - Cairo Desert Road, ALEXANDRIA, EGYPT.

Applies an Occupational health and safety management system in line with the above Standard for the following Scope

STEEL COLD FORMING SERVICE, MANUFACTURING AND SANDWICH PANEL PRODUCTION.

EA Code / Risk Category: 17 / S

Certificate Registration No.: 20152100001720

Valid until: 2022-05-30
Initial certification: 2016-05-

Athens, 2019-05-31

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.

TÜV AUSTRIA HELLAS
435, Mesogeion Ave.
GR-153 43 Athens, Greece
www.tuvaustriahellas.gr

LEED Certificate:


U.S. GREEN BUILDING COUNCIL MEMBER

ORGANIZATIONAL

ALEXANDRIA STEEL FORMING COMPANY

MEMBER SINCE SEP 11, 2017

The U.S. Green Building Council is the nation's foremost coalition of leaders working to transform the way buildings and communities are designed, built, and operated, enabling an environmentally and socially responsible, healthy, and prosperous environment that improves the quality of life.

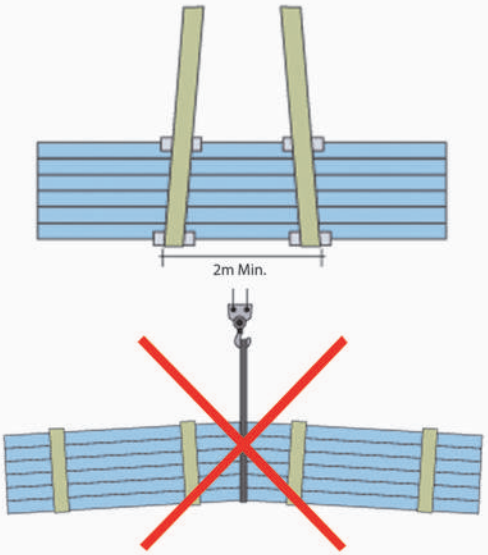
President & CEO

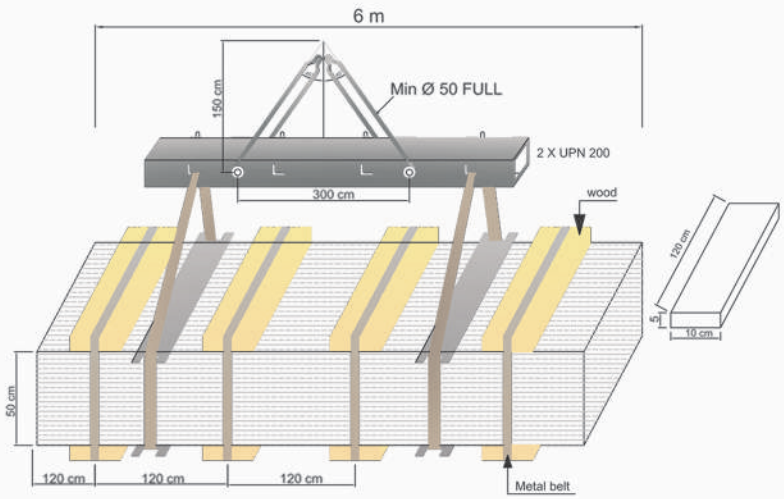
Egyptian Quality Seal:

Instructions for loading, handling and storage

UNLOADING & HANDLING:

- Check to see if all items are present. Any material damages or shortages should be noted on the bill of lading prior to signing for the material and the supplier should be immediately notified.
- Stacks up to 6m length can be raised by fork lifts; ones to 13.5 m shall be lifted using crane.

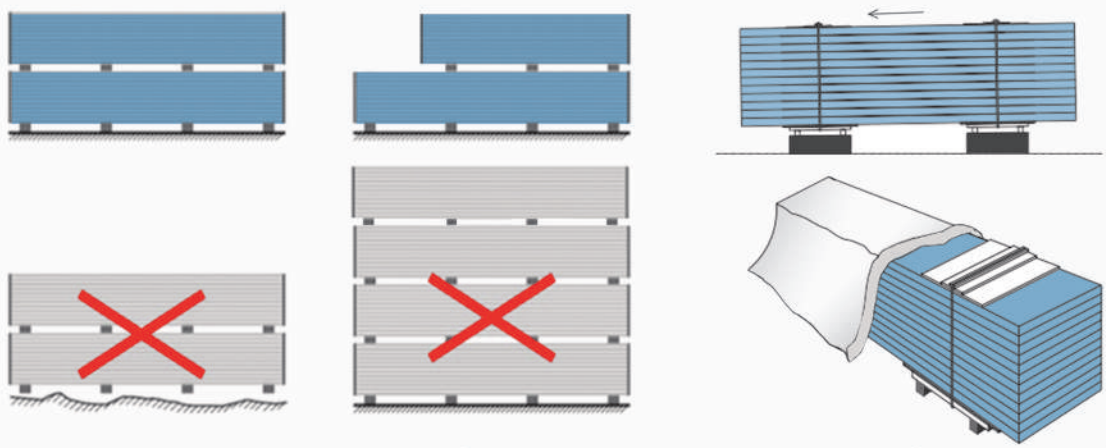




The package from length 2.5 m to 15 m

STORAGE :

- If ground storage is needed, the bundles should be stored off the ground, with one end elevated "slope 5%" to provide drainage.
- If the packages cannot be stored inside, Bundles should be protected against condensation with a ventilated water-proof polyethylene covering. Bundles should be stacked so that there is no danger of tipping, sliding, rolling, shifting or material damage.
- To protect the package from the collected water at the bottom, put wooden block through the long side with min height 100*50*1000 mm in case of concrete solid ground and 300*50*1000 mm in case of sand/mud ground.
- Do not store more than 1 deck package with max 50 cm height to avoid damage.
- Bundles should be checked for tightness so wind cannot loosen sheets or work the bundles apart. Tightness should be periodically checked and additional securement should be used as needed.
- Do not store more than 3 purlins packages one on top of another and place spacers or board between them.
- Bundles should never be hoisted by the strapping and should always be placed tag side up.



**Manufacturer cannot assume responsibility for damage to the product resulting from improper following for the above protection instructions in the field.

ALEXFORM

ALEXANDRIA STEEL FORMING COMPANY

Main Office: Behind 30 - Patrice Lumumba St.El-Obour Building - 2nd Floor- Alexandria
Tel/Fax: (+203)39 25 798 /(+203) 39 25 768
: (+203)39 28 874 /(+203) 39 25 269

Cairo Office: 28 Gamal Salem st. from mosaddk El-Dokki,Giza.
Tel: (+2) 0233355421 / (+2) 0233355429

Factory:K21 Behind Merghem Warehouse Store, Alexandria,Cairo Desert Road
Tel/Fax: (+203) 3420159 / (+203) 3420160

www.alexgroup.com.eg