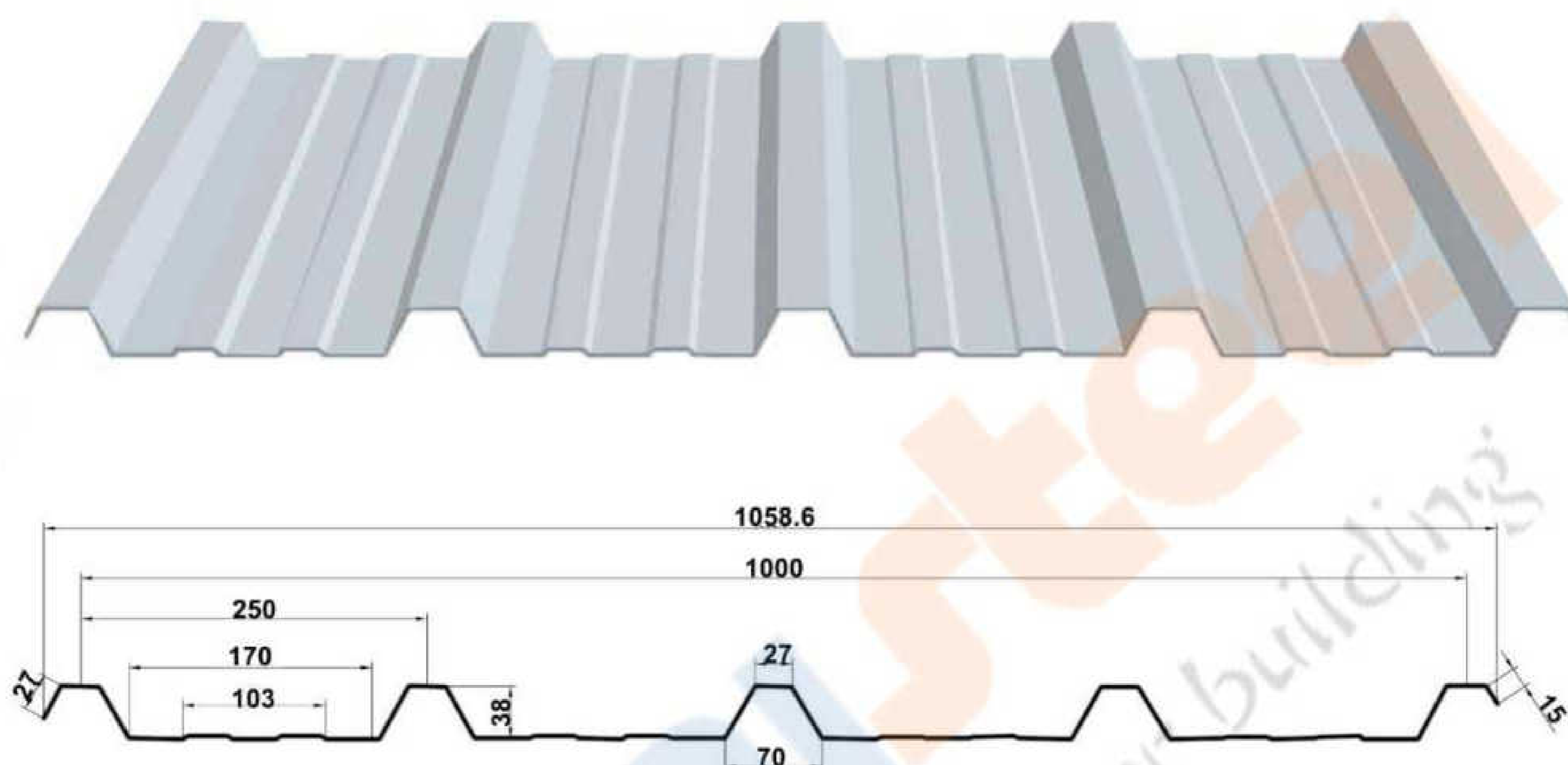


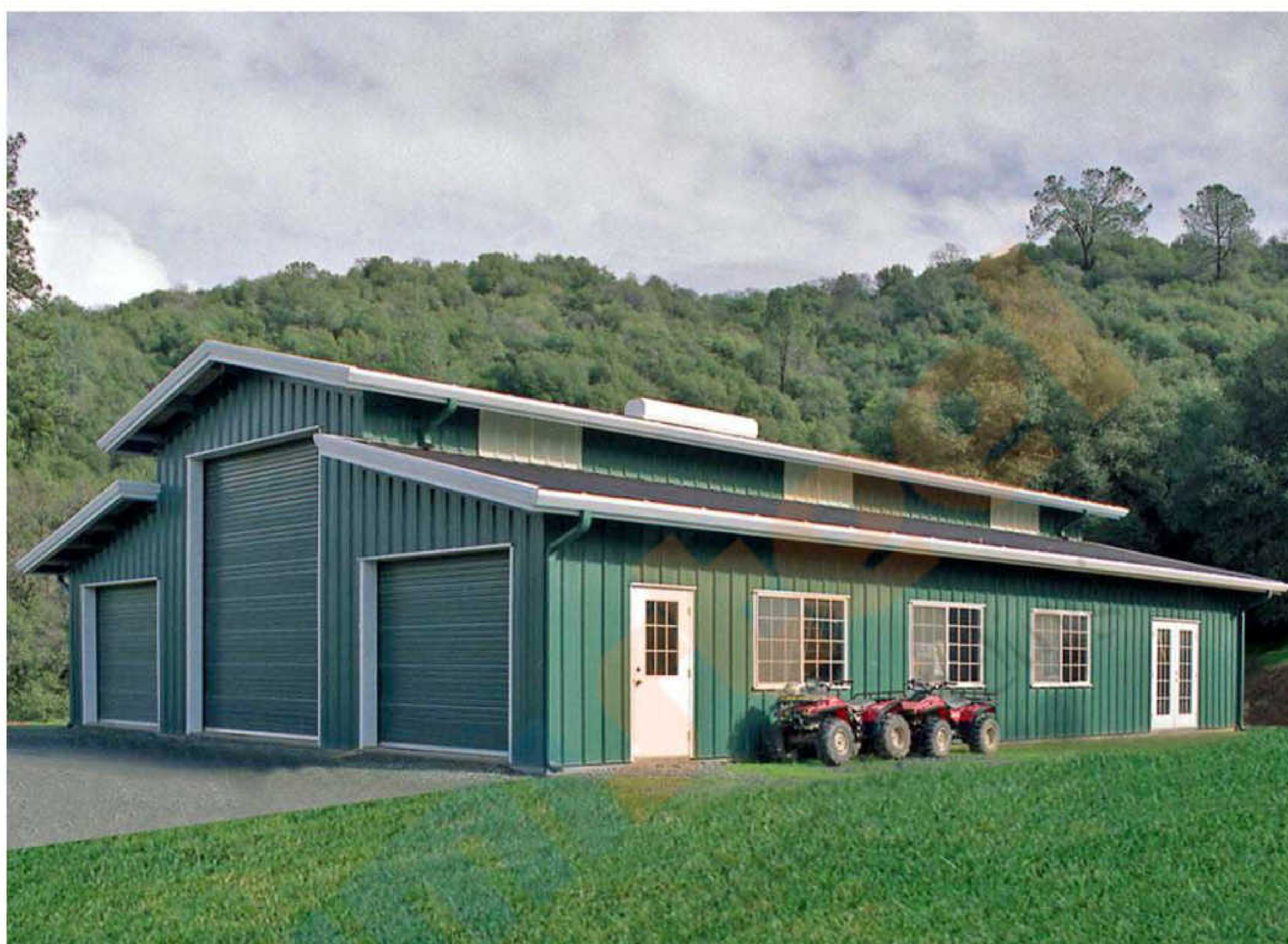
## 1. Panel type



Corrugated metal roof is using color coated steel or aluminum alloy metal sheets and cold-rolled into various profiled sheets by rolling equipment. Corrugated metal roof or steel sheets are an energy-efficient, low cost, and long-lasting roofing and wall cladding option for homes, log cabins, and commercial building envelope applications.

<b>Model NO. :</b>	YX38-250-1000
<b>Rib height :</b>	38 mm
<b>Rib distance :</b>	250 mm
<b>Modular width :</b>	1250 mm
<b>Effective width :</b>	1000 mm
<b>Available thickness :</b>	0.40 - 0.75 mm for steel sheets; 0.60 - 1.20 mm for aluminum alloy metal sheets
<b>Available length :</b>	20FT container: ≤ 5.90m 40FT container: ≤ 11.95m
<b>Available material :</b>	PPGI/ PPGL/ Galvanized steel/ Aluminum alloy metal sheets
<b>Surface treatment :</b>	Original pre-painted color
<b>Coating type :</b>	PE, PVDF, HDP, SMP, etc.
<b>Fastening system :</b>	Exposed fastener

## 2. Application:



- 1) Commercial buildings: Wall & Roof;
- 2) Industrial buildings: Wall & Roof;
- 3) Residential buildings: Wall & Roof.

### 3. Product tolerance:

<b>Cut to length</b>	±5mm
<b>Cover width</b>	±2mm
<b>Thickness</b>	±0.02mm
<b>End square</b>	±3mm
<b>Rib height</b>	±2mm

### 4. Material certificates reference:





We are cooperating with Bluescope, Bao steel, Shougang group, Guanzhou steel, and Yiehphui steel. All these steel brands are top brands in China, which can make sure you can have good quality sandwich panels. Normally steel standards are China GB Q235, Q345, Q355. Other special steel standards, please indicated, when making inquiry. The following are material certificates for your reference:

宝山钢铁股份有限公司  
BAOSHAN IRON & STEEL CO., LTD.

产品质量证明书  
INSPECTION CERTIFICATE

上海市宝山区富锦路885号 邮编 201900  
No.885 Fujin ROAD, BAOSHAN DISTRICT  
201900 SHANGHAI, P. R. CHINA  
TEL (021)26649104  
FAX (021)26648886

制造厂: 总部  
Manufacturer: CORE BASE

订货单位 CUSTOMER	北京宝钢北方贸易有限公司	产品名称 PRODUCT	彩色涂层钢带		
收货单位 PURCHASER	上海宝钢运输有限公司 (代北方公司)	代号 CUSTOMER'S NO.	000158	证书号 CERTIFICATE NO.	B6SA01905200000200
标准 SPECIFICATION	Q/BQB 440-2014 TDC51D+AZ 2/1M 50/50 A PT.A-PW.A-PF.A 普通聚酯-海蓝 PE	客户订单编号 CUSTOMER ORDER NO.			
		签发日期 DATE OF ISSUE	2019/05/26		
		许可证号 LICENSE NO.			
		合同号 MILL'S NO.	09F000834		

序 号 NO.	钢卷号/捆包号 COIL/PACK NO.	件 数 QTY	炉 号 HEAT NO.	规格及重量 MATERIAL DESCRIPTION				化学成分 CHEMICAL COMPOSITION % (熔体分析 HEAT ANALYSIS)										拉伸试验 TENSILE TEST (G.L.=L <sub>0</sub> )			硬度 HARD NESS	镀层重量 COATING MASS			涂层性能 COAT PROPERTY				
				厚度 THICK mm	宽度 WIDTH mm	长度 LENGTH mm	张数 SHEETS	重量 MASS (kg)	C	Si	Mn	P	S	Ti	屈服 Y.S.	抗拉 T.S.	伸长 EL	两面 BOTH	上面 TOP	下面 BOT		*01 涂层 厚度	*02 铅笔 硬度	*03 光泽 60°	*04 涂层 弯曲	*05 反向 冲击			
1	17370647103	1	17276083	0.50	1200	COIL		4280	37	10	20	12	0	0		347	370	30		106	53	53	20	OK	33	OK	OK		
2	17370647403	1	17276083	0.50	1200	COIL		4945	37	10	20	12	0	0		342	370	31		107	54	53	20	OK	33	OK	OK		
3	17370647404	1	17276083	0.50	1200	COIL		4945	37	10	20	12	0	0		342	376	31		107	54	53	20	OK	33	OK	OK		
4	17370648201	1	27432208	0.50	1200	COIL		4365	40	29	22	20	0	0		345	379	34		111	56	55	20	OK	33	OK	OK		
5	17370648202	1	27432208	0.50	1200	COIL		4365	40	29	22	20	0	0		345	379	34		111	56	55	20	OK	33	OK	OK		
6	17370648205	1	27432208	0.50	1200	COIL		4185	40	29	22	20	0	0		345	379	34		111	56	55	20	OK	33	OK	OK		
合计 Total		6			27585																								
备注 REMARKS																													
注释 NOTES		Y.S.=YIELD STRENGTH T.S.=TENSILE STRENGTH EL=ELONGATION G.L.=GAUGE LENGTH L1=5.65SQRT(FO) L2=50MM L3=80MM *01:COAT THICKNESS(μm) *02:PENCIL HARDNESS *03:BRIGHTNESS *04:COAT BENDING *05:REVERSE IMPACT(J)																											
会签者 SURVEYOR TO		本产品已按上述要求进行制造和检验,其结果符合要求,特此证明。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE MATERIAL SPECIFICATION.																											
		 质量负责人 QUALITY MANAGER																											

Page 1 of 1

品质证明书  
INSPECTION CERTIFICATE

客户名称 CLIENT	山东万事达涂装应用技术有限公司	证明书编号 CERTIFICATE NO.	D197388	证明书开立日期 ISSUE DATE	2019/07/30																												
商品名称 COMMODITY	PREPAINTED HOT DIP 55%AL-ZN COATED STEEL IN COIL 镀55%铝锌彩涂钢卷	订单号码 ORDER ITEM NO.	L2KK03911	交货日期 DELIVERY DATE	2019/07/29																												
		产品名称 PRODUCT	PREPAINTED HOT DIP 55%AL-ZN COATED STEEL IN COIL 镀55%铝锌彩涂钢卷																														
		产品规格 SPECIFICATION	ASTM A752M WITH SUBSTRATE ASTM A792M CS TYPE B WITH TENSILE TEST A2M100, TOP/PE 聚酯树脂 C1919(25 um), BACK/EP 环氧树脂-聚酯 3854(11 um).																														
序号 SQ NO.	钢卷号/捆包号 COIL/PACK NO.	行单尺寸 ORDERED DIMENSIONS	机械性能及其他 MECHANICAL PROPERTIES AND OTHERS										化学成分 CHEMICAL COMPOSITION WTS																				
		厚 THICK mm	宽 WIDTH mm	长 LENGTH m	数量 QTY	重量 WEIGHT kg	拉伸试验 TENSILE TEST				弯曲 试验 BEND TEST	涂层重量 COATING MASS	*1	*2	*3	*4	涂层厚度 COAT THICK (um)	C	Mn	Si	P	S	Al	Cr	Ni	Cr	Nb	Ti	B	S	CLV		
		mm	mm	m	pcs	kg	屈服强度 YIELD N/mm <sup>2</sup>	抗拉强度 TENSILE N/mm <sup>2</sup>	伸长率 EL(%)	冲击 试验 TEST	冲击功 J	g/m <sup>2</sup>	180°	A2M100				X10 <sup>2</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	X10 <sup>1</sup>	
		规格 SPECIFICATION						INF.	INF.	INF.	180°	A2M100																					
01	9KN491A00	0.570	1200	900	1	4200	394	418	31.0	OK	OK	OK	OK	OK	OK	OK	OK	4.0	18	2.0	12	0	33										
02	9KN491B00	0.570	1200	900	1	4200	394	418	31.0	OK	OK	OK	OK	OK	OK	OK	OK	4.0	18	2.0	12	0	33										
03	9KN491C00	0.570	1200	922	1	4610	394	418	31.0	OK	OK	OK	OK	OK	OK	OK	OK	4.0	18	2.0	12	0	33										
04	9KN492A00	0.570	1200	944	1	4725	374	410	30.0	OK	OK	OK	OK	OK	OK	OK	OK	4.0	18	2.0	10	4	27										
05	9KN492B00	0.570	1200	944	1	4725	374	410	30.0	OK	OK	OK	OK	OK	OK	OK	OK	4.0	18	2.0	10	4	27										
06	9KN492C00	0.570	1200	944	1	4725	374	410	30.0	OK	OK	OK	OK	OK	OK	OK	OK	4.0	18	2.0	10	4	27										
07	9KN492D00	0.570	1200	944	1	4725	374	410	30.0	OK	OK	OK	OK	OK	OK	OK	OK	4.0	18	2.0	10	4	27										
08	9KN492E00	0.570	1200	936	1	4083	374	410	30.0	OK	OK	OK	OK	OK	OK	OK	OK	4.0	18	2.0	10	4	27										
				TOTAL WEIGHT:		37,190 kg	INF.: FOR REFERENCE ONLY																										
注 明 事 项 REMARKS	*1: Pencil *2: Cross *3: Penetration Test *4: Impact Test *5: Salt Spray Test *6: Impact Test *7: Salt Spray Test *8: Impact Test																																
CERTIFIED TO ISO9001:2015		兹证明本表所列制品,均依材料规格及试验,并符合规格之要求 WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.																															
		 CHUNG LEE 品质负责人 GENERAL MANAGER TECHNOLOGY DEPT.																															



GUANZHOU 冠洲		SHANDONG GUANZHOU CO., LTD.		产品质量证明书 INSPECTION CERTIFICATE					地址: 山东省聊城市冠县振兴东路389号 ADDRESS: 389, Zhongxing East Road, Guan County, Liaocheng, Shandong Tel: (0086)0635-5289536 Fax: (0086)0635-5289979									
订货单位 CUSTOMER	冠县冠洲金属材料有限公司			产品名称 PRODUCT	彩色涂层钢带 Prepainted Steel Coil													
收货单位 PURCHASER	山东宏鑫源钢板有限公司			合同号 CONTRACT NO.				证书编号 CERTIFICATE NO.	20190915003									
标准 SPECIFICATION	GB/T 12754-2006			发货日期 DATE OF DELIVERY	2019-09-12			证书日期 T/C ISSUE DATE	2019.09.15									
钢卷号 COIL NO	级别 GRADE	规格描述 MATERIAL DESCRIPTION		颜色 COLOR	化学成分(%) CHEMICAL COMPOSITION					镀层重量 COATING MASS g/m <sup>2</sup>	力学性能 TENSILE TEST			涂层性能 COAT PROPERTY				
		规格 SIZE (mm*mm)	重量 WEIGHT (T)		C	Si	Mn	P	S		屈服 Y.P.	抗拉 T.S.	伸长率 E.L.	涂层厚度 COATING THICKNESS μm	光泽 LUSTER	涂层弯曲 COAT BENDING	铅笔硬度 PENCIL HARDNESS	反向冲击 REVERSE IMPACT
JS411905230014C019A	A	0.75*1200	3.604	硅改洛阳白	40	2	19	18	13	60	339	388	30	24/10	38	3T	3H	9J
JS411905230021C020A	A	0.75*1200	4.57	硅改洛阳白	50	2	27	15	21	60	342	390	30	24/10	38	3T	3H	9J
JS411905230062C030A	A	0.75*1200	4.038	硅改洛阳白	40	1	24	13	23	60	329	385	33	24/10	39	3T	3H	9J
JS411905230034C025A	A	0.75*1200	4.244	硅改洛阳白	40	2	17	15	10	60	329	379	33	24/10	38	3T	3H	9J
JS411905230032C023A	A	0.75*1200	4.112	硅改洛阳白	40	2	17	15	10	60	329	379	33	24/10	38	3T	3H	9J
JS411905230031C022A	A	0.75*1200	4.114	硅改洛阳白	40	2	17	15	10	60	329	379	33	24/10	39	3T	3H	9J
JS411905230042C027A	A	0.75*1200	3.484	硅改洛阳白	50	1	22	14	19	60	335	380	31	24/10	38	3T	3H	9J
JS411905230013C018A	A	0.75*1200	4.03	硅改洛阳白	40	2	19	18	13	60	339	388	30	24/10	39	3T	3H	9J
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
合计	共(SIM): 8 件			总重量(TOTAL MASS): 32.196 吨(TON)										质量负责人: 梁晓东 QUALITY MANAGER				
会检者	本产品已按上述要求进行了制造和检验, 其结果符合要求. 特此证明																	
SURVEYOR TO	WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE MATERIAL SPECIFICATION															Liang Xiao dong		

### 5. Available colors:



Colors above are regarded as our regular color, welcome you to choose from them, if any color meet your demand. For other color, we have the following requirement:

- 1) It's better to send us the color reference in RAL color swatches, then we could have better color reference;
- 2) For unregular color, we have minimum order quantity, it's at least 3000 meters per color.

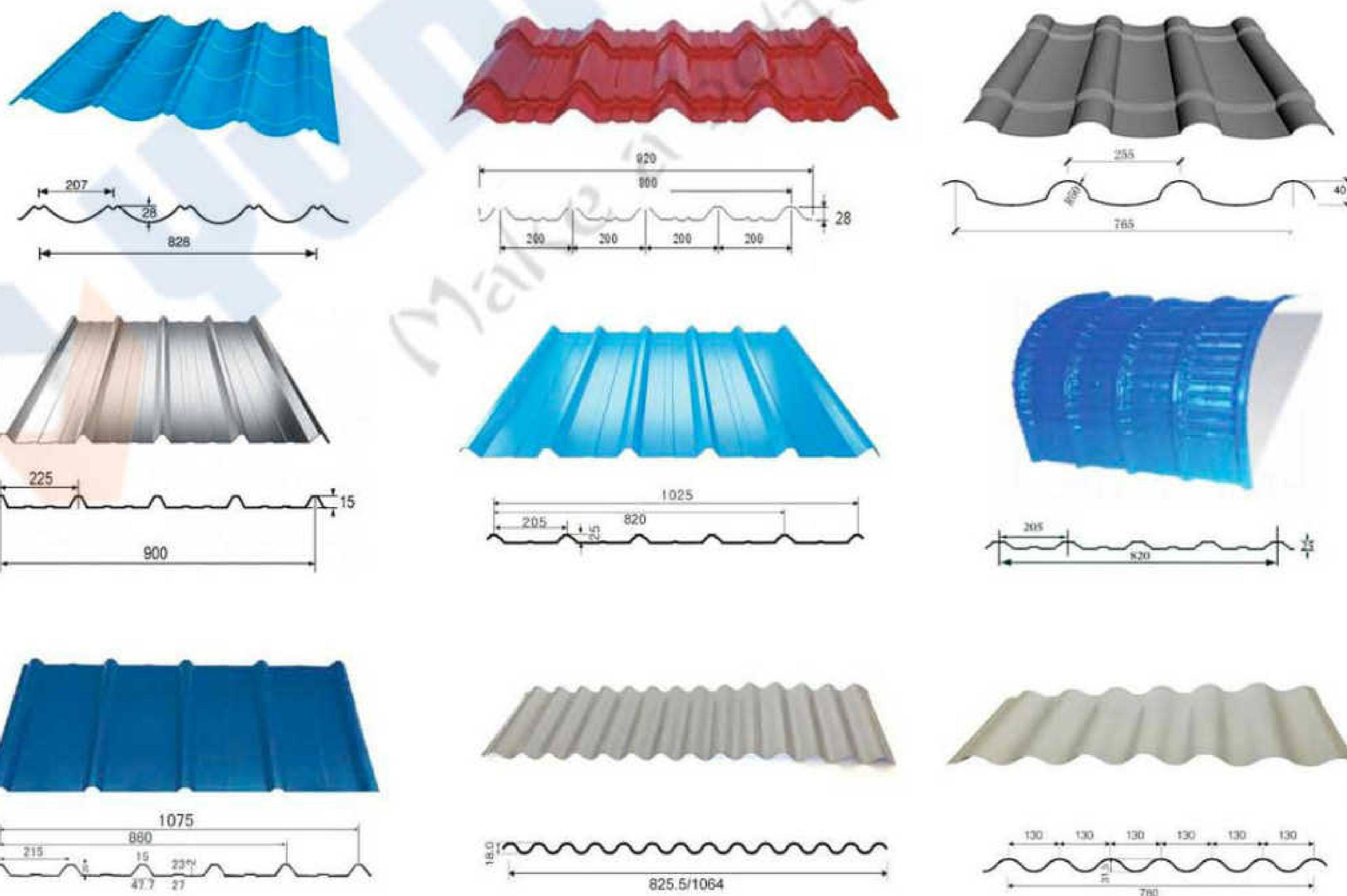
### 6. Load & Span table:

Thickness/MM	Load KN/M <sup>2</sup>	L/150		
		Single span	Double span	Triple span
0.42	0.5	2480	3165	3772
	1	2160	2788	3362
	1.5	1742	2268	2967
	2	1596	2112	2664
	2.5	1345	1986	2475

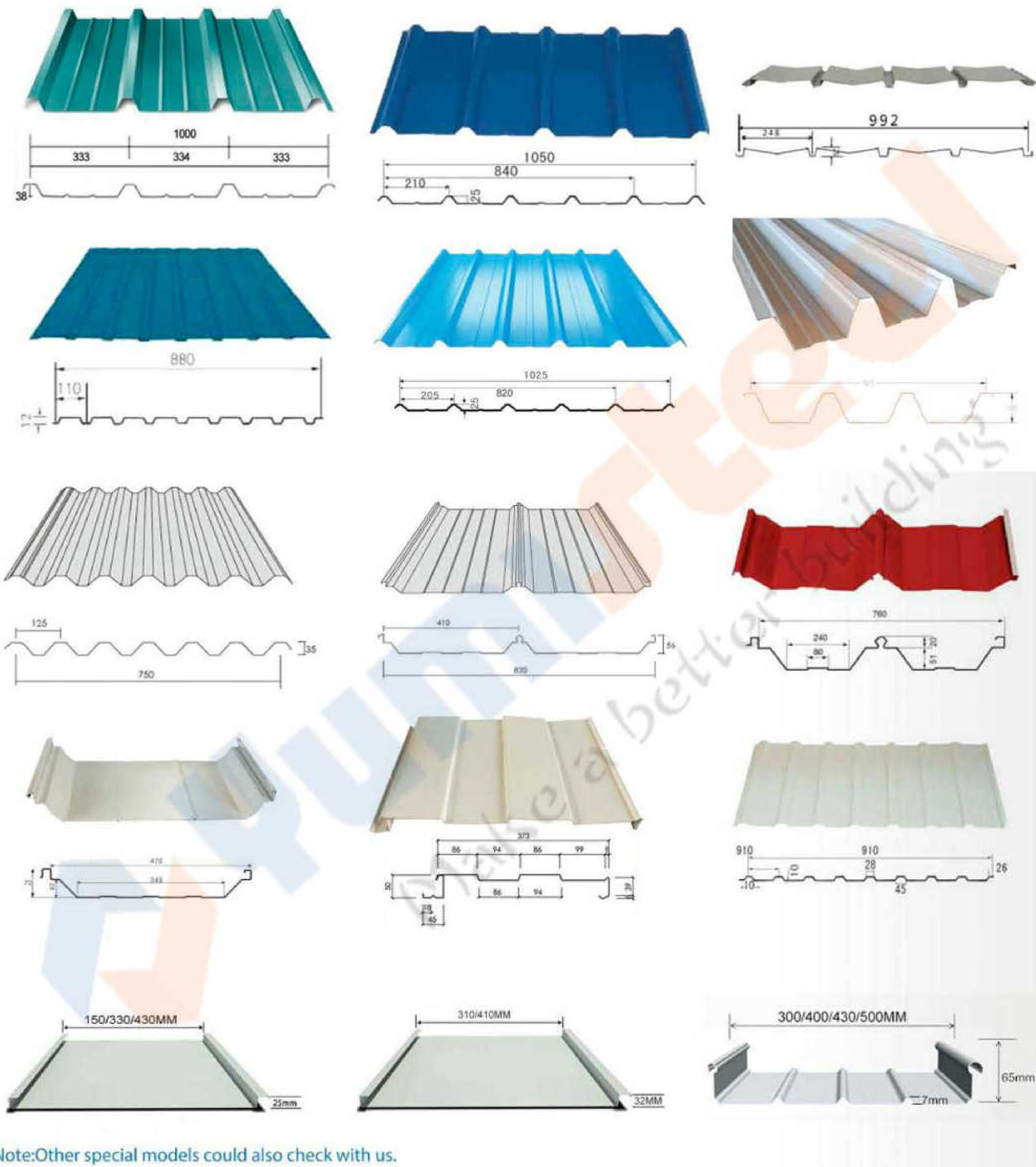
0.5	0.5	3051	3886	4632
	1	2645	3421	4130
	1.5	2136	2768	3632
	2	1966	2584	3267
	2.5	1634	2435	3032
0.6	0.5	3759	4784	5711
	1	3278	4210	5067
	1.5	2688	3424	4344
	2	2416	3208	4021
	2.5	2033	3012	3724

Note: This is based on G550 grade color steel. For other steel grade or material, please contact our sales team for more details, thank you.

## 7. Other metal roofing types:

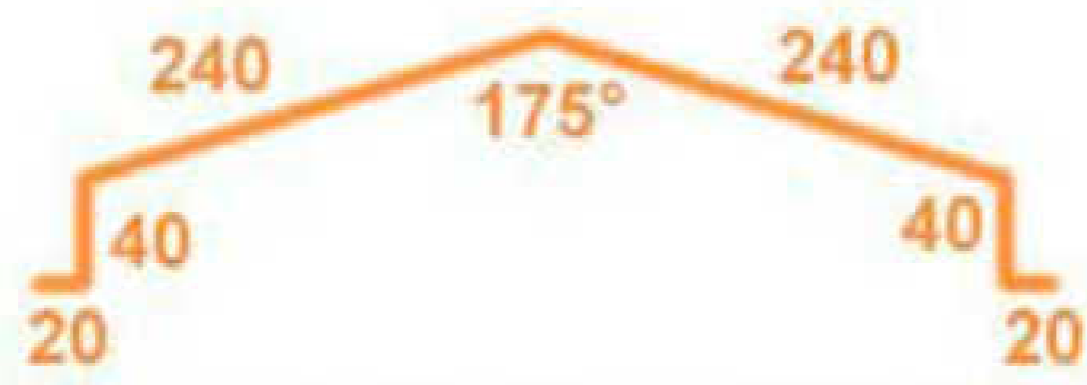






Note: Other special models could also check with us.

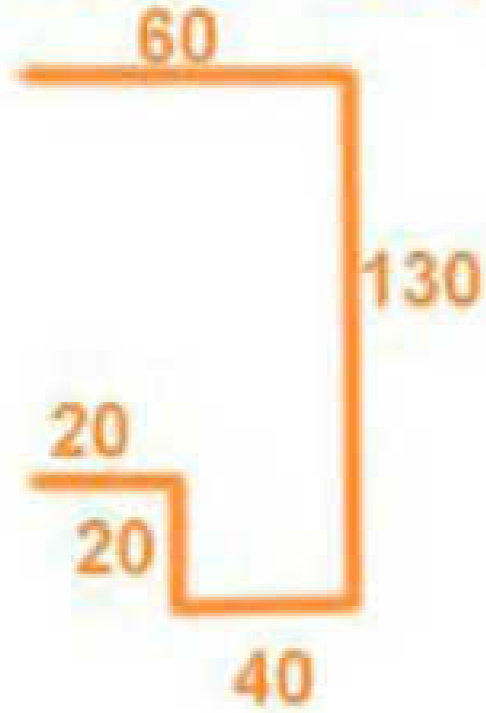
## 8. Common flashing drawing for reference:



EXTERNAL RIDGE CAPPING



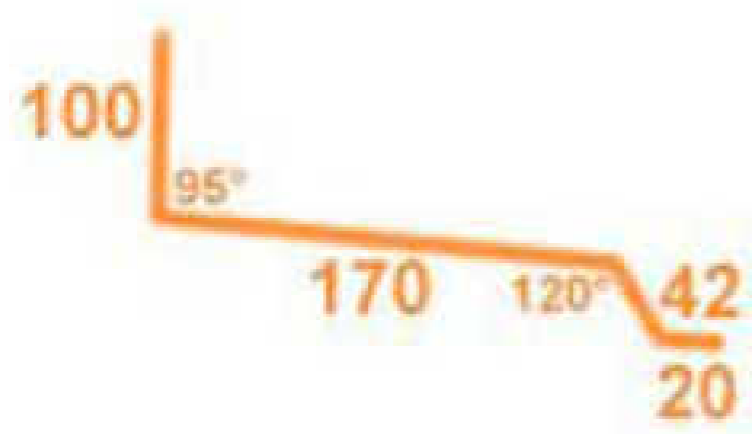
INNER RIDGE CAPPING



EAVE TRIM



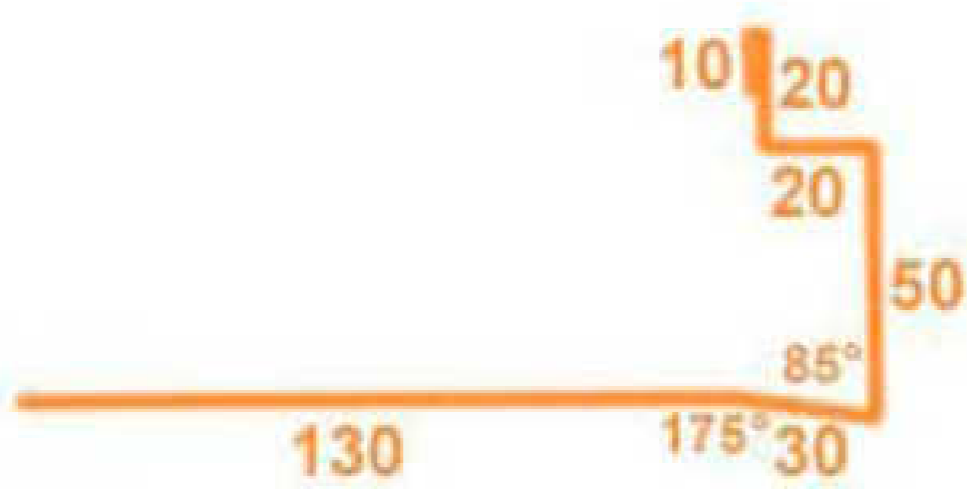
PARAPET CAPPING



GABLE FLASHING



FLASHING UNDER PANEL



TRIM FOR WINDOW HEAD



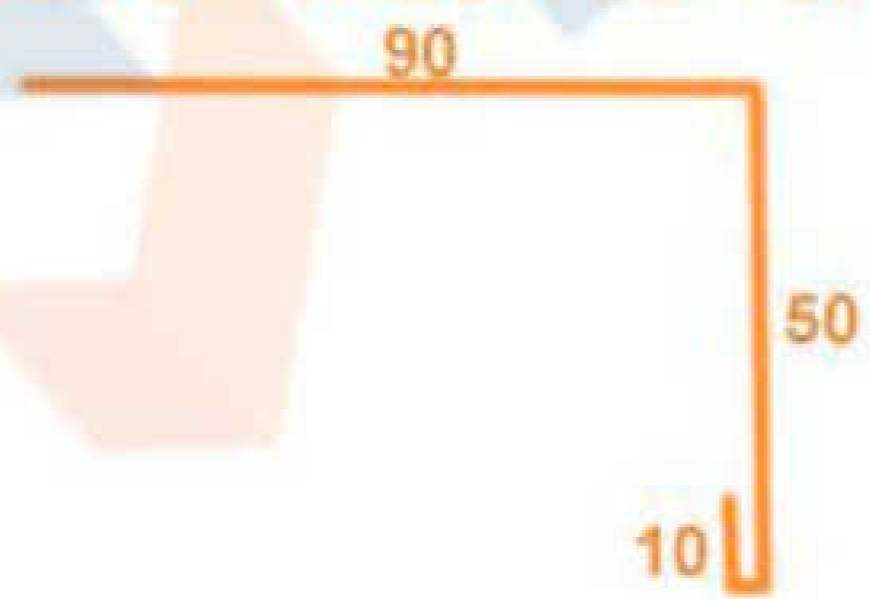
TRIM FOR WINDOW SIDE



TRIM FOR WINDOW BOTTOM



EXTERNAL CORNER FLASHING



TRIM UNDER WINDOW

## 9. Packing of metal roofing:

☆ Common packing:





Firstly, PVC film to pack steel roofing sheets, then use mildewproof kraft paper to pack outside.

☆ Premium packing:



Firstly, PVC film to pack steel roofing sheets, then use mildewproof kraft paper to pack outside and finally use steel box packing.

## 10. Panel Delivery:

All deliveries (unless indicated otherwise) are by sea transport to customer appointed port. If some special requirement, like DDP service, please indicate the address in details, so that we will offer you exact shipping cost details. Off-loading is the responsibility of the client. If customers have any doubt of off-loading problem, please feel free to contact us for details, thank you.



## 11. Maintenance for steel sheets

Original design, environment of the installation, and maintenance of the installation is the three main factors that effects on metal sheets lifetime. Maintenance is the biggest factor, so please read the followign details:

- Every 3 months regular inspection for problems, so we could avoid they become major corrosion reason;
- Place near coastal or industrial influences need every 3 month regular washing down;
- Remove leaves and other debris from drains, downpipes, guards, tanks, holes and other overflows;
- Keep no soil, concrete and debris near the wall;
- Do not spray pesticides excessively.

## 12. Our service & support :

### ☆ Installation instructions:

We can have installation instructions to be offered for each different projects, as per customers' requirement.

### ☆ Technical support:

If customers have special requirement for on-site guide, we can also have our people to go to customers' project site to support your installation. Please contact our salesman to discuss with this support.

### ☆ Unloading instructions:

If you have container unloading questions, please feel free to discuss with our team, we will do our best to put forward one container unloading solution for you.

### ☆ Full set of technical information:

When you have technical information need to be offered for related projects, please contact our salesman, and clarify what you need, and we will have our engineers to offer related information to you.

Yumi steel will do our best to support your projects with professional attitudes and excellent service spirit.