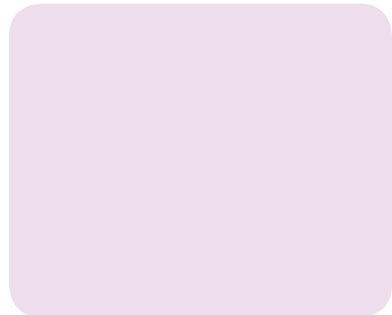
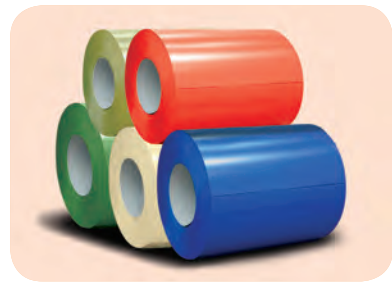
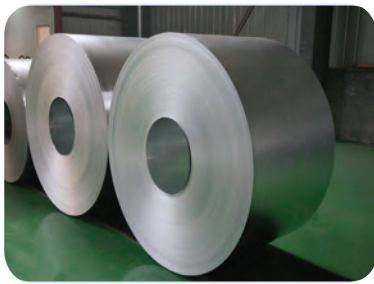
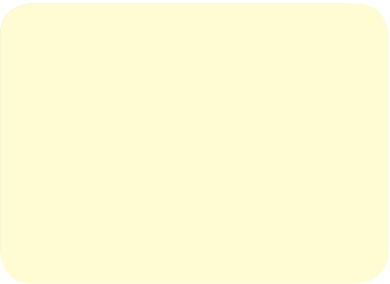
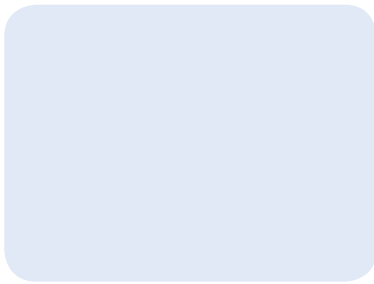




TÔN NAM KIM

QUALITY COMMITMENT





| | |
|--|------------|
| Introduction:..... | page 3-4 |
| Pickled & Oiled Steel..... | page 5-8 |
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Development History

The Nam Kim Steel Joint Stock Company was established on 23th December 2002, specialized in manufacturing, doing business, and distributing of:

- Galvanized Steel Coil/ Hot dip Zinc Coated Steel - GI & HGI
- Pre-painted Galvanized Steel Coil/ Pre-painted Zinc Coated Steel - PPGI
- Galvalume/ Hot dip 55% Aluminium Zinc Alloy Coated Steel - GL
- Pre-painted Galvalume/ Pre-painted Zinc - Aluminium Coated Steel - PPGL
- Pre-painted Cold Rolled Coil - PPCR
- Steel Pipe (Black Steel Pipe, Galvanized Steel Pipe, Stainless Steel Pipe)
- Purlins
- ...

And other products such as Hot-rolled coils, Cold-rolled coils, Steel plate... with applications in industrial and civil construction, mechanics manufacturing, handicrafts and interior decorations.

The company's products are widely distributed on every territory of Vietnam, export to several countries in Southeast Asia, Australia, Middle East... Defining that quality is the core element for development, from the beginning time, Nam Kim invested into production lines with POSCO technology and continuously improves the production effectiveness and invested into other production lines to diversify the supply chains of company.

Nam Kim has gradually confirmed the brand, maintained the growth rate on market share in domestic and export market. According to the report of Vietnam Steel Association in 2011, Nam Kim is one of Top 10 Vietnamese leading corporations on coating steel market. This is great effort and it confirmed the continuous development of Nam Kim Steel JSC.

HISTORICAL MILESTONE



May, 2012

Put into Pickled & Oiled Steel (PO) production line, HGI production line, Aluminium-Zinc alloy coated production line, color coating line, 04 steel pipe production lines, raise total capacity to 350,000 MTs / year.

October, 2011

Increase the nominal capital of Nam Kim Steel Joint Stock company to 299 billion VND.

January, 2011

The Nam Kim Steel Joint Stock Company officially was listed on the stock exchange with code NKG.

December, 2010

According to the decision No. 4011/UBCK-QLPH of SSC, The Nam Kim Steel Joint Stock Company become public company.

August, 2010

Nam Kim Transportation Joint Stock Company was founded to provide transportation, forwarding, warehousing services of goods.

March, 2010

Start of construction of steel - roofing Nam Kim plant at Lot No. B2.2 - B2.3 D3 Road, Dong An 2 IP, Phu Hoa Ward, Thu Dau Mot City, Binh Duong Province with total area of 67.000m²



PICKLED & OILED STEEL (PO)



PICKLED & OILED STEEL PRODUCTION LINE

| | | | |
|------------|--------------------|-------------|----------------|
| Technology | | Chemical | |
| Capacity | 300,000 (MTs/year) | Thickness | 0.5 ÷ 5.0 (mm) |
| Width | 200 ÷ 1,250 (mm) | Coil weight | Max 25,000(kg) |
| Inner Dia | 610/762 (mm) | Outer Dia | 1,900 (mm) |

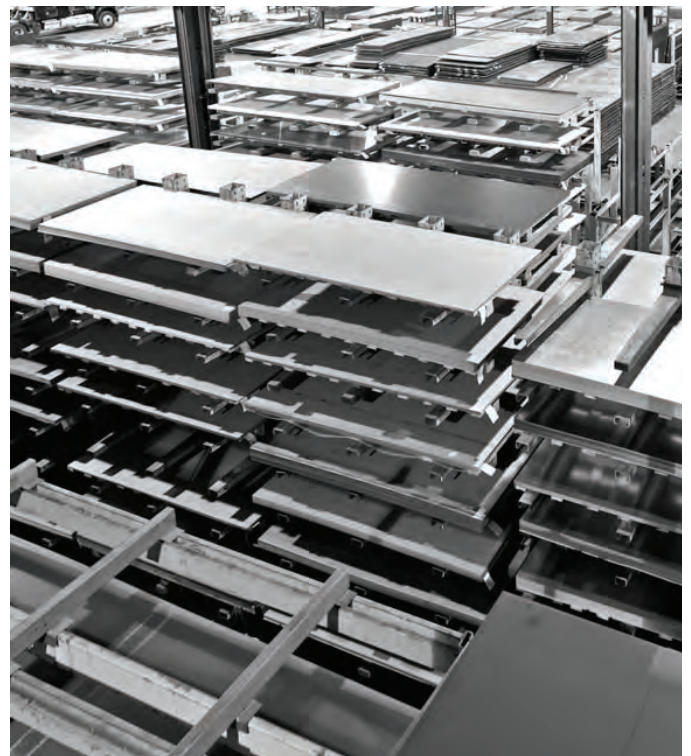
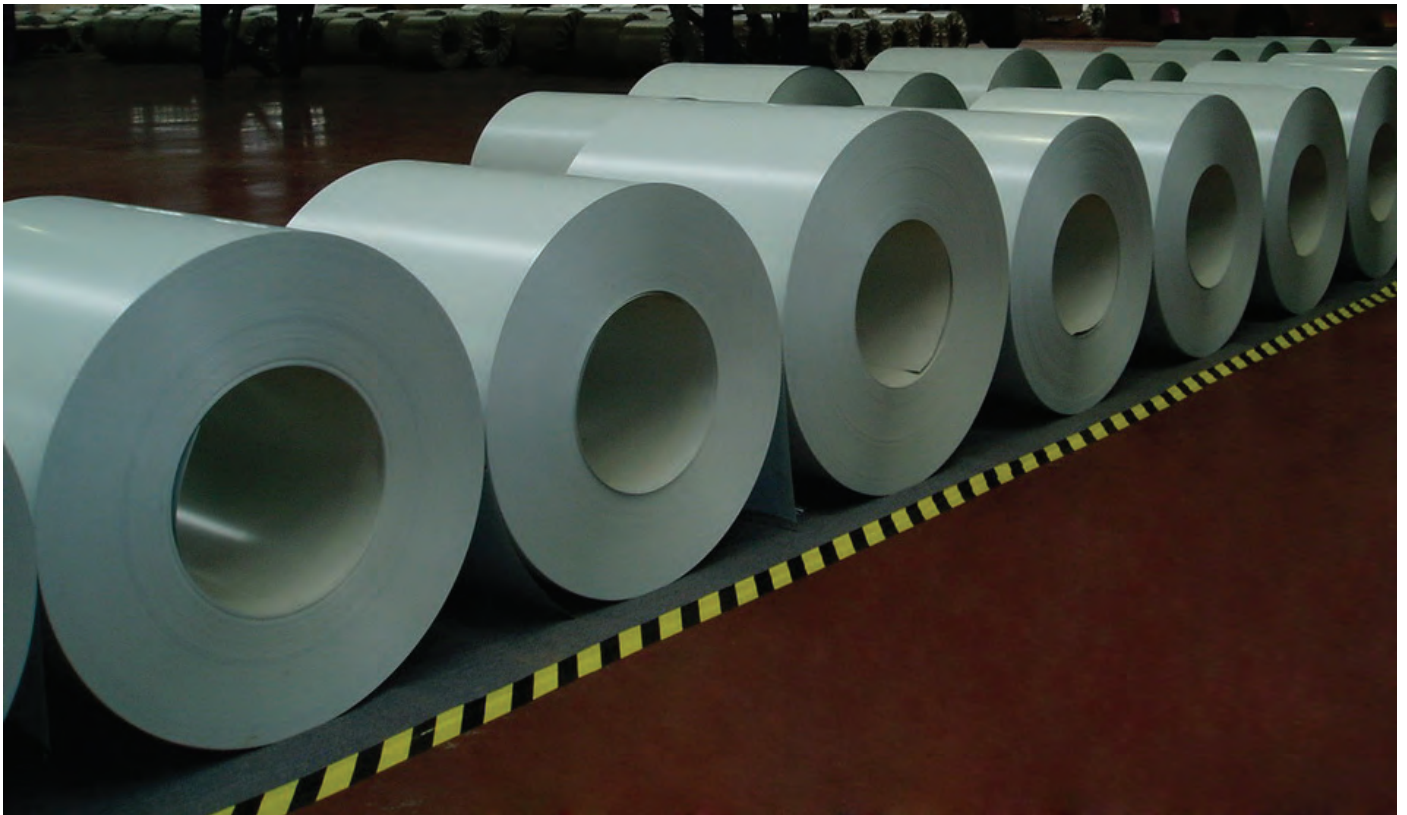


PICKLED & OILED STEEL (PO STEEL)



Applications of PO Steel:

- Processing, cleaning the steel and metal surface for the mechanical engineering industry, coating...
- Used for production of cold rolled steel, zinc coated steel, hot dip zinc coated steel, aluminum-zinc alloy coated steel, pre-painted zinc coated steel, pre-painted aluminium-zinc coated steel...





**COLD-ROLLED STEEL
(CR-FULL HARD)**



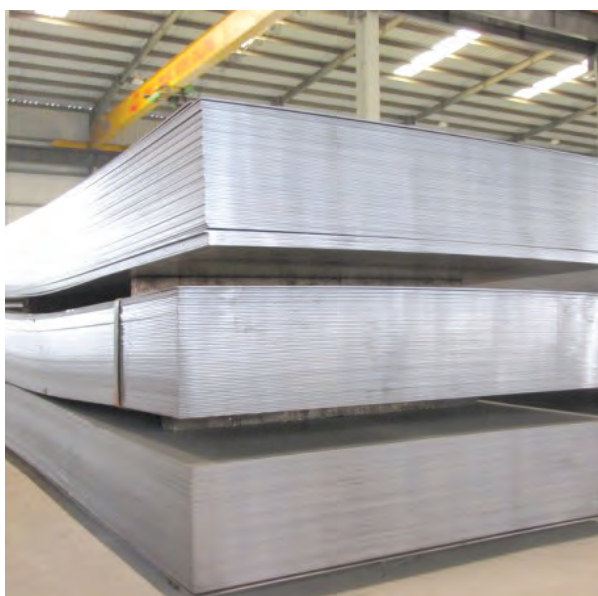
COLD-ROLLED STEEL PRODUCTION LINE

| | | | |
|------------|----------------------|-------------|-----------------|
| Technology | 6 High Reversing CRM | | |
| Capacity | 200,000 (MTs/year) | Thickness | 0.12 ÷ 2.8 (mm) |
| Width | 760 ÷ 1,250 (mm) | Coil weight | Max 25,000(kg) |
| Inner Dia | 508/610 (mm) | Outer Dia | Max 2,200 (mm) |

| COLD-ROLLED COILS | | |
|---------------------|--|--------------------------|
| Standard | Unit | JIS G 3141, ASTM A611... |
| Grades | | SPCC, SPCD... |
| Thickness | mm | 0.12 ÷ 2.8 |
| Thickness Tolerance | mm | Applicable standards |
| Width | mm | 750 ÷ 1,250 |
| Width Tolerance | mm | Applicable standards |
| Coil weight | MT | Max: 25 - Min: 5 |
| Applications | For the mechanical manufacturing sector, color coated steel sheets, roofing sheets, steel pipes, automobile industry, household appliances, furniture... | |

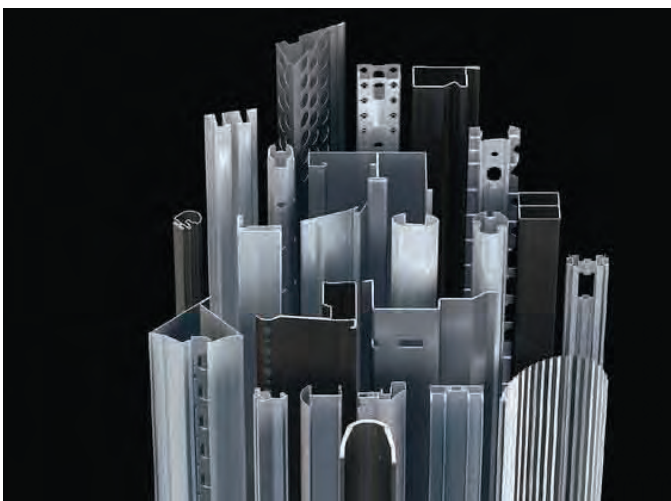
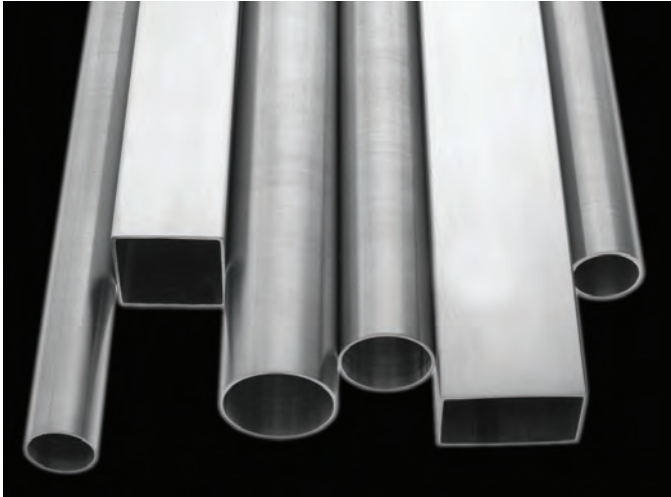
| COLD-ROLLED STEEL SHEETS | |
|--------------------------|--|
| Standard | JIS G 3141, ASTM A611... |
| Grades | SPCC, SPCD... |
| Thickness | 0.12 ÷ 2.8 (mm) |
| Thickness Tolerance | 914; 1,000; 1,200; 1,219; 1,250 (mm) |
| Length | Popular 2,000 ÷ 12,000 (mm) and as per requirements |
| Applications | Workshop structure, mechanics, construction, machine building, industrial boilers... |

| SPLITTED COLD-ROLLED COILS | |
|-----------------------------------|-----------------|
| Thickness | 0.12 ÷ 2.8 (mm) |
| As per to customer's requirements | |



Applications of CR - Full Hard:

- Used in mechanical manufacturing sector...
- Production of zinc coated steel (GI), aluminum-zinc alloy coated steel (GL), color coated steel, steel pipe, sections, purlins...
- Manufacturing industrial electrical products, home electrical-appliance equipments, mechanics, machinery and equipments...





HOT DIP 55%
ALUMINIUM-ZINC ALLOY
COATED STEEL



ALUMINIUM - ZINC ALLOY COATING LINE (NOF TECHNOLOGY)

| | | | |
|------------|--------------------------------|-------------------------|-----------------|
| Technology | NOF (Non - Oxidising Furnance) | | |
| Capacity | 150,000 (MTs/year) | Total coating thickness | 0.22 ÷ 1.2 (mm) |
| Width | 750 ÷ 1,250 (mm) | Coil weight | Max 25,000 (kg) |
| Inner Dia | 508/610 (mm) | Outer Dia | Max 2,200 (mm) |





Technology: **NOF**

Standard: **JIS G 3321/ ASTM A792**

Coating thickness: **AZ50 ÷ AZ210 (*)**

Base Metal Thickness: **0.20 ÷ 1.0 (mm)**

Width: **600 ÷ 1,250 (mm)**

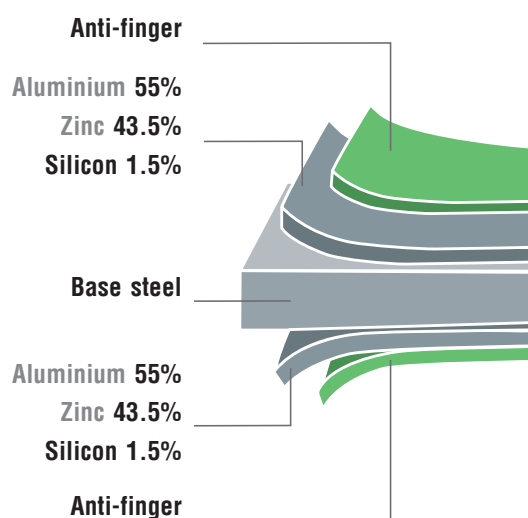
(*) AZ is used for the aluminium-zinc coated layer

Outstanding quality:

- Especially produced for various using purposes.
- Duration is 4 times longer than other normal Gls.
- High anti-corrosion and anti-heat.

The anti-finger layer:

- Anti-stain and anti-oxidization.
- Keeping the surface of the products shiny for a long time.
- Reduce cracks, scratches of coating layer in the process of stamping and rolling.



HOT-DIP 55% ALUMINIUM-ZINC ALLOY COATED STEEL STANDARD - JIS G 3321

| PROPERTIES | TEST | METHODS | NAM KIM STANDARDS | RESULTS |
|-----------------------|-----------------|-------------|---|-----------------------------------|
| Adhesion | T-bend test | ASTM D 4145 | 0-2T, scotch tape 3M | No scale off |
| | Impact test | ASTM D 2794 | 1/2", 1000g x 500mm (min) scotch tape 3M | No scale off |
| White rust resistance | Salt spray test | JIS Z 2371 | 72h | Appearance < 5% |
| Hardness | Hardness test | Rockwell | By gauges, depending on classification | Soft: 35 ÷ 65 HRB |
| | | | | Hard: Min 85 HRB |
| Tensile Strength | Tensile test | JIS Z 2241 | By gauges, depending on classification | Soft: 270 ÷ 400 N/mm ² |
| | | | | Hard: Min 500 N/mm ² |



Applications:

- Industrial & civil construction.
- Production of roofing, walls, ceilings, gutters...
- Sliding door, rolling door, folding door...
- Interior and exterior decoration.
- Drainage pipes, air conditioning pipes.
- Computer cases, electrical cabinets, washing machines...



Electrical Cabinets



Ventilation tubes



Computer cases



Car kits

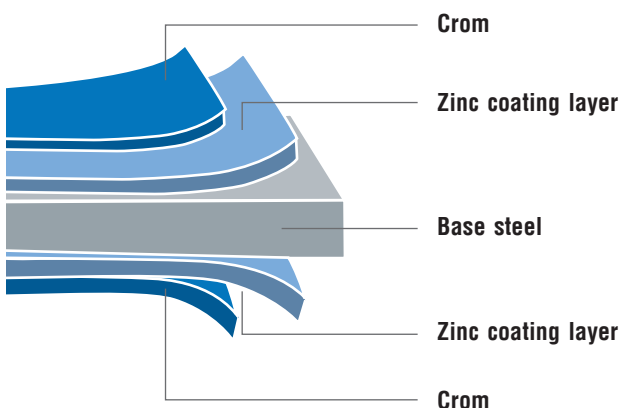


HOT DIP ZINC COATED STEEL



CONTINUOUS GALVANIZING LINE - NOF TECHNOLOGY

| | | | |
|------------|--------------------------------|-------------------------|-----------------|
| Technology | NOF (Non - Oxidising Furnance) | | |
| Capacity | 50,000 (MTs/year) | Total coating thickness | 0.14 ÷ 1.2 (mm) |
| Width | 600 ÷ 1,250 (mm) | Coil weight | Max 10,000 (kg) |
| Inner Dia | 508/610 (mm) | Outer Dia | 1,800 (mm) |



Technology: **NOF**
 Standard: **JIS G 3302/ ASTM A653**
 Coating thickness: **Z8 ÷ Z25 (*)**
 Base Metal Thickness: **0.12 ÷ 1.2 (mm)**
 Width: **600 ÷ 1,250 (mm)**
 (*) Z is used for the zinc coated layer

Advantages

NOF Technology (Non-Oxidising Furnance) makes Galvanized Steel Sheet in Coils NAKI ZINC with follow charateristics:

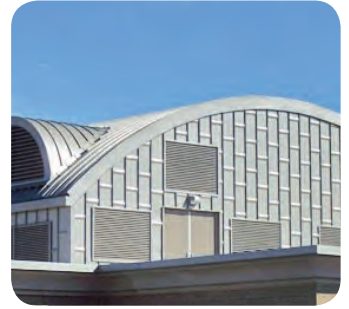
- High quality & anti-corrosion.
- Zinc cover firmly and evenly on the surface and the smoothness is better than other Galvanized Steel Products on the market.

HOT-DIP ZINC COATED STEEL STANDARD - JIS G 3302

| PROPERTIES | TEST | METHODS | NAM KIM STANDARDS | RESULTS |
|------------------------|-----------------|-------------|--|-----------------------------------|
| Adhesion | T-bend test | ASTM D 4145 | 0-2T, scotch tape 3M | No scale off |
| | Impact test | ASTM D 2794 | 1/2", 1000g x 500mm (min) scotch tape 3M | No scale off |
| White rust ressistance | Salt spray test | JIS Z 2371 | 72h | Appearance < 5% |
| Hardness | Hardness test | Rockwell | By gauges, depending on classification | Soft: 35 ÷ 65 HRB |
| | | | | Hard: Min 85 HRB |
| Tensile Strength | Tensile test | JIS Z 2241 | By gauges, depending on classification | Soft: 270 ÷ 400 N/mm ² |
| | | | | Hard: Min 500 N/mm ² |

Applications:

- Industrial & civil construction.
- Production of roofing, walls, ceilings, gutters.
- Rolling doors, sliding doors, folding doors.
- Pre-engineered steel buildings, factories, warehouses.
- Home-appliance equipments.
- Graphic, interior and exterior decoration.
- Drainage pipes, air conditioning pipe.
- Computer cases, electrical cabinets, washing machines...



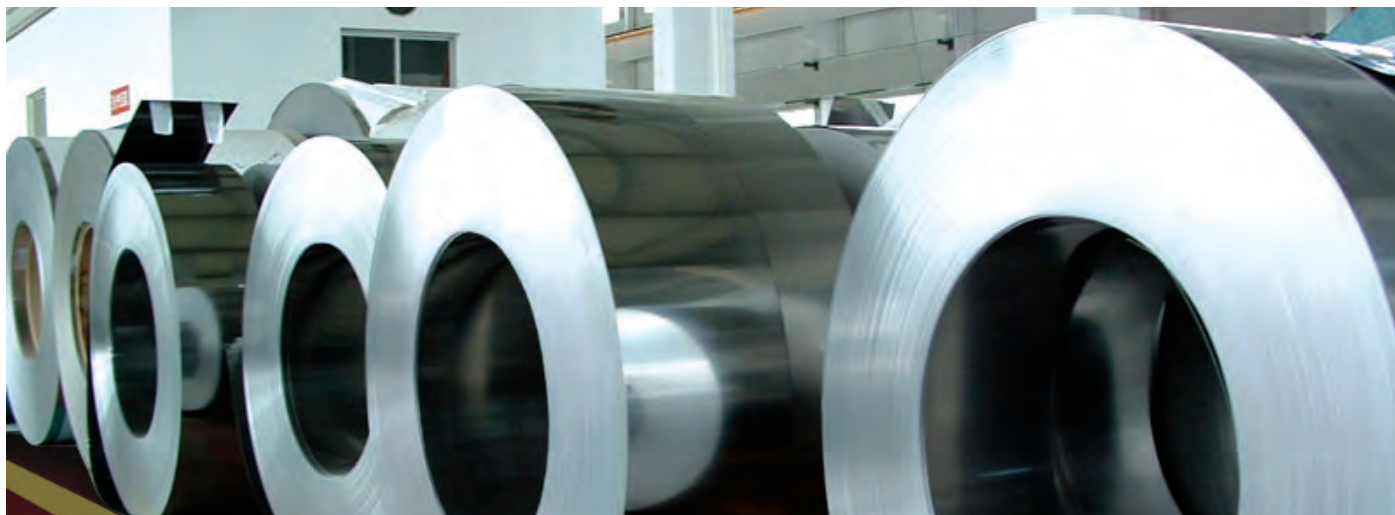


HOT-DIPPED GALVANIZED STEEL SHEETS IN COILS (HGI)

HGI PRODUCTION LINE - NOF TECHNOLOGY

| | | | |
|------------|--------------------------------|-------------------------|-----------------|
| Technology | NOF (Non - Oxidising Furnance) | | |
| Capacity | 150,000 (MTs/year) | Total coating thickness | 0.6÷ 4.0 (mm) |
| Width | 200 ÷ 650 (mm) | Coil weight | Max 10,000 (kg) |
| Inner Dia | 508/610 (mm) | Outer Dia | 1,800 (mm) |





Hot-Dipped Galvanized Steel 0.6mm ÷ 4.0mm

Technology: NOF

Standard: JIS G 3302/ ASTM A653

Coating thickness: Z8 ÷ Z40 (*)

Base Metal Thickness: 0.6 ÷ 4.0 (mm)

Width: 200 ÷ 600 (mm)

(*) Z is used for the zinc coated steel

Advantages:

- Suitable for using in coastal, salt-fog, hot and humid environment
- Anti-corrosion, durability without protective layer
- High-aesthetic HGI (NAKI ZINC) is suited for many applications in construction

HGI STANDARD - JIS G 3302

| PROPERTIES | TEST | METHODS | NAM KIM STANDARDS | RESULTS |
|-----------------------|-----------------|-------------|--|-----------------------------------|
| Adhesion | T-bend test | ASTM D 4145 | 0-2T, scotch tape 3M | No scale off |
| | Impact test | ASTM D 2794 | 1/2", 1000g x 500mm (min) scotch tape 3M | No scale off |
| White rust resistance | Salt spray test | JIS Z 2371 | 72h | Appearance < 5% |
| Hardness | Hardness test | Rockwell | By gauges, depending on classification | Soft: 35 ÷ 65 HRB |
| | | | | Hard: Min 85 HRB |
| Tensile Strength | Tensile test | JIS Z 2241 | By gauges, depending on classification | Soft: 270 ÷ 400 N/mm ² |
| | | | | Hard: Min 500 N/mm ² |

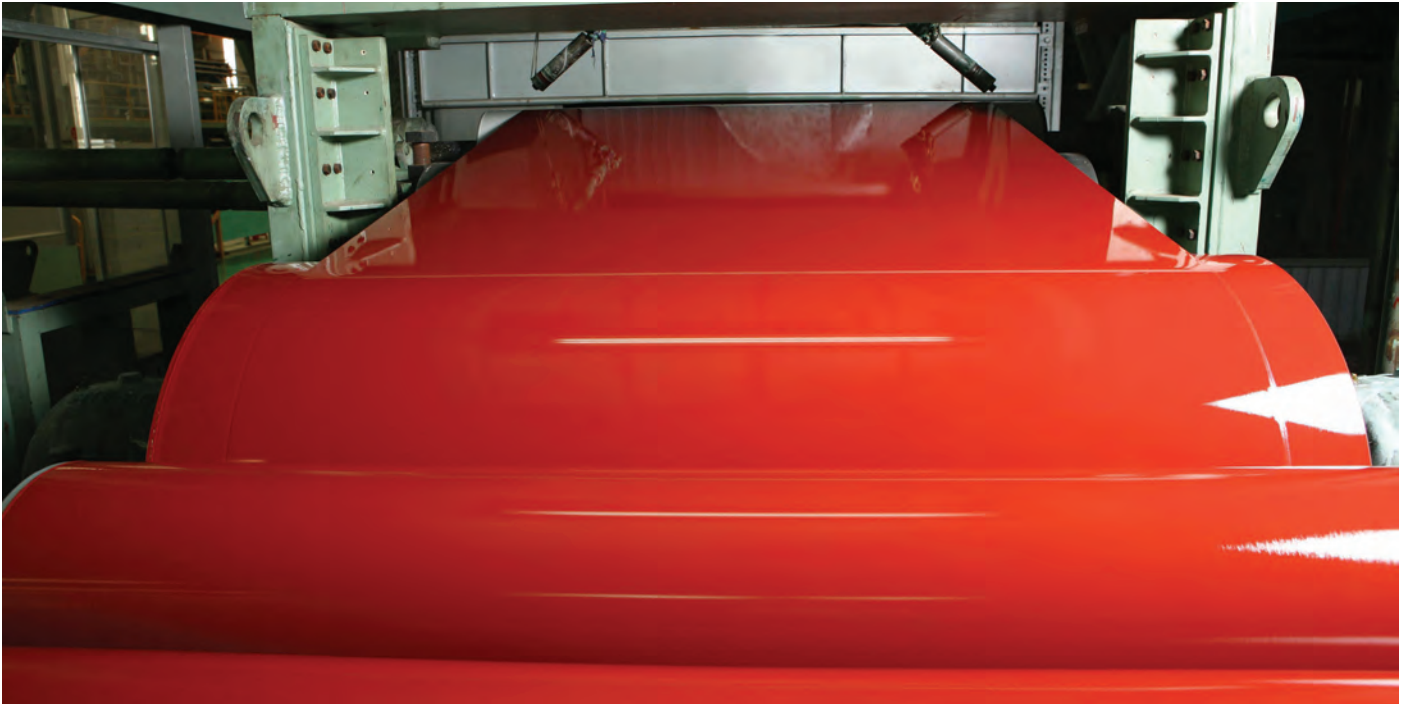
Applications of HGI

- Being widely used in construction: purlins, galvanized steel pipe.
- Shipbuilding, vehicle-manufacturing.
- Other industries such as electrical equipment manufacturing, refrigeration, home electrical appliances...





COLOR COATING STEEL



COLOR COATING LINE

| | | | |
|------------|------------------------------|-------------------------|-----------------|
| Technology | Reversing Roll Color Coating | | |
| Capacity | 150,000 (MTs/year) | Total coating thickness | 0.22 ÷ 1.2 (mm) |
| Width | 600 ÷ 1,250 (mm) | Coil weight | Max 25,000 (kg) |
| Inner Dia | 508/610 (mm) | Outer Dia | Max 2,100 (mm) |



Products

- Pre-painted Aluminium-Zinc coated steel 0.22 ÷ 1.2mm; width 800 ÷ 1,250mm
- Pre-painted Zinc coated steel 0.22 ÷ 1.2mm, width 800 ÷ 1,250mm
- Pre-painted cold rolled steel 0.22 ÷ 1.2mm, width 800 ÷ 1,250mm



Technology: reversing roll color coating, pre-painted aluminium-zinc coated steel with NOF technology

Standard: JIS G 3322/ ASTM A755

Base metal thickness: 0.2 ÷ 1.2 (mm)

Coating thickness: 10 ÷ 20/15 ÷ 30 microns

Width: 800 ÷ 1,250 (mm)

PRE-PAINTED ALUMINIUM-ZINC COATED STEEL - JIS G 3322

| PROPERTIES | TEST | METHODS | NAM KIM STANDARDS | RESULTS |
|----------------------|----------------------|---------------------------|--|-----------------------------------|
| Corrosion resistance | Salt spray test | ASTM B 117 JIS Z 2371 | NaCl 5%, 500h | Corrosion |
| Weather resistance | Q.U.V test | ASTM D 4587 JIS K 5600 | QUV, 1000h | Δ E < 0.5 gloss retention >90% |
| Hardness | Pencil hardness test | ASTM D 3363 JIS S 6006 | Mitsubishi min 2H, 1 kg/cm ² | No Scratch |
| Solvent resistance | MEK double rubbing | ASTM D 5402 | 100 x 2.1 kg/cm ² | No rub-off |
| Adhesion | T-bend test | ASTM D 4145 | max 2T, scotch tape 3M | No rub-off |
| | Impact test | ASTM D 2794 | 1/2", 1000g, 500mm, scotch tape 3M | No rub-off |
| Gloss | Elcometer 406 | ASTM D 523 | Angle 60° | 25 + 5 45 + 5 75 + 5 |

PRE-PAINTED ZINC COATED STEEL

Technology: reversing roll color coating, pre-painted zinc coated steel with NOF technology and skinpass

Standard: JIS G 3312/ ASTM A755

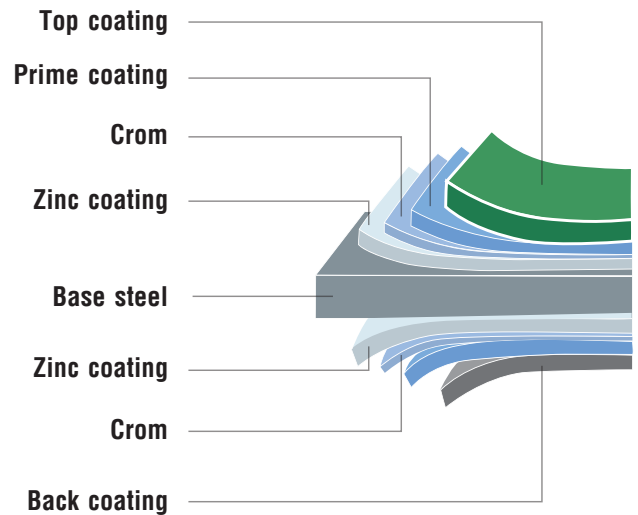
Coating thickness: 10 ÷ 20/15 ÷ 30 microns

Base metal thickness: 0.2 ÷ 1.2 (mm)

Width: 600 ÷ 1,250 (mm)

Advantages

The PPGI NAKI COLOR is of good quality, durable, and is manufactured from NOF - technology material, skin-passed and advanced reversing roll color coating technology.



PRE-PAINTED ZINC COATED STEEL - JIS G 3312

| PROPERTIES | TEST | METHODS | NAM KIM STANDARDS | RESULTS |
|----------------------|----------------------|---------------------------|---|---|
| Corrosion resistance | Salt spray test | ASTM B 117 JIS Z 2371 | NaCl 5%, 500h | Corrosion |
| Weather resistance | Q.U.V test | ASTM D 4587 JIS K 5600 | QUV, 1000h | $\Delta E < 0.5$ gloss retention $> 90\%$ |
| Hardness | Pencil hardness test | ASTM D 3363 JIS S 6006 | Mitshubishi min 2H, 1 kg/cm ² | No Scratch |
| Solvent resistance | MEK double rubbing | ASTM D 5402 | 100 x 2.1 kg/cm ² | No rub-off |
| Adhesion | T-bend test | ASTM D 4145 | max 2T, scotch tape 3M | No rub-off |
| | Impact test | ASTM D 2794 | 1/2", 1000g, 500mm, scotch tape 3M | No rub-off |
| Gloss | Elcometer 406 | ASTM D 523 | Angle 60° | 25 + 5 45 + 5 75 + 5 |

- Types of roofing: roofs, walls, gutters in industrial & civil construction.
- Rolling doors, roll-up doors, double sliding doors...
- In the interior equipments & decoration, handicrafts: office cabinets, safes, ceiling...
- Manufacturing details, spare parts for cars, motorcycles and bicycles.
- Industrial electrical products and home electrical appliances.



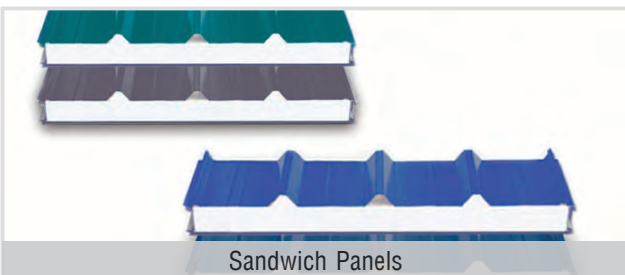
Wall



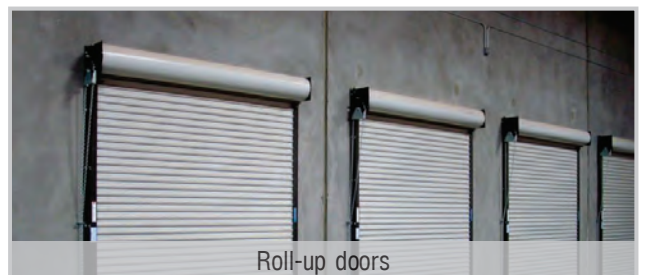
Interior decoration



Wall panel



Sandwich Panels



Roll-up doors



Trunk



Cold storage - Shelves



Ceiling - Plafond



Electrical cabinet - Appliances

BASIC COLOR PALETTE



NB 11



NR 01A



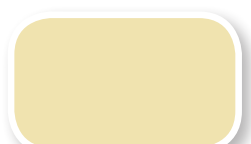
NG 04A



NG 01A



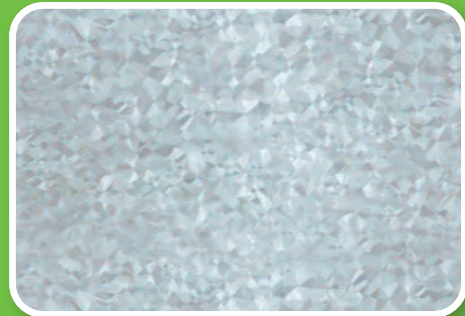
NG 06A



NY 01A



**PRE-PAINTED ALUMINIUM-ZINC
ALLOY COATED STEEL**



**HOT DIP 55% ALUMINIUM-ZINC
ALLOY COATED STEEL**



XO 01



Hot Dip Zinc
Coated Steel



XB 01A



XB 02A



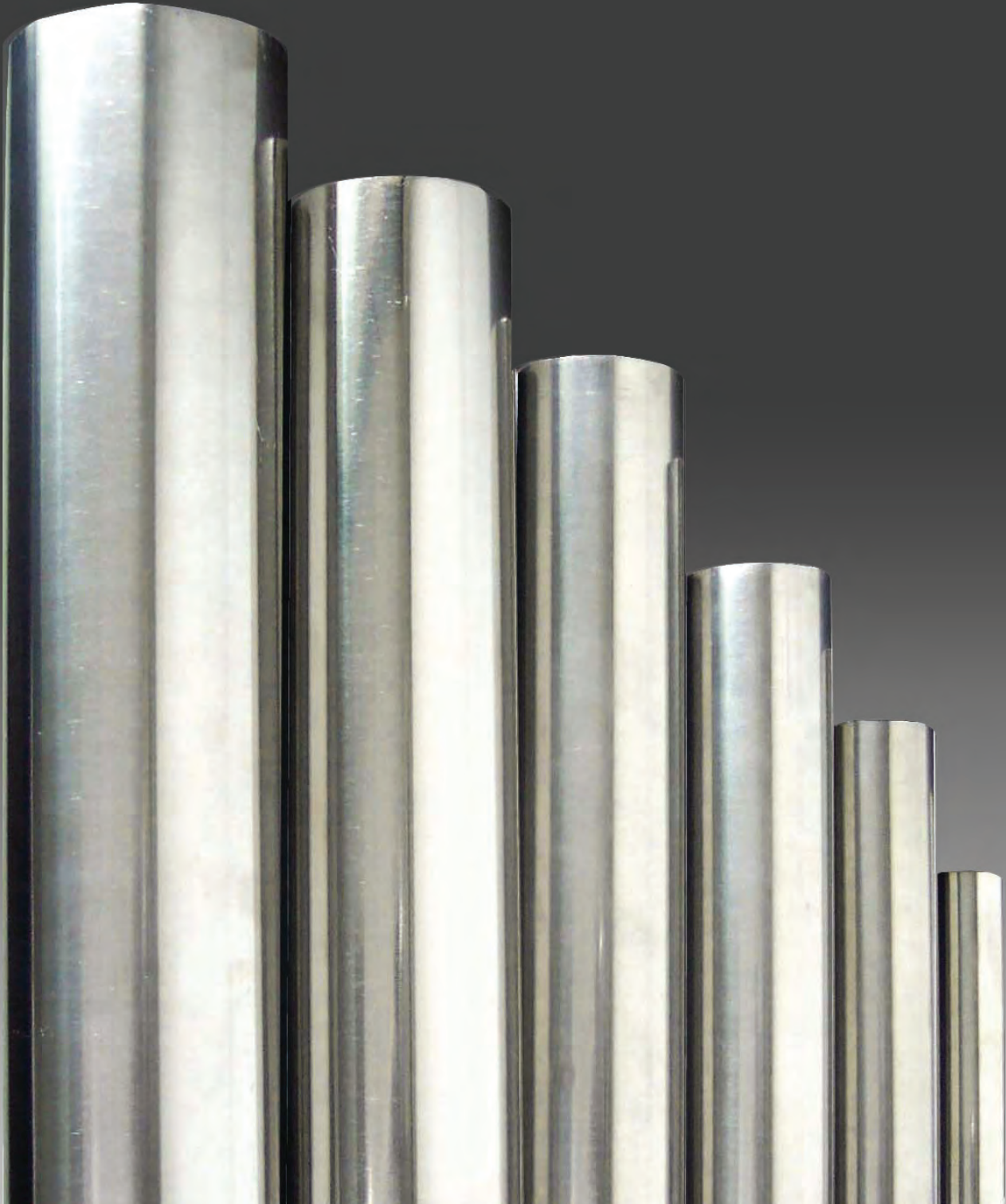
NW 05B



XG 02

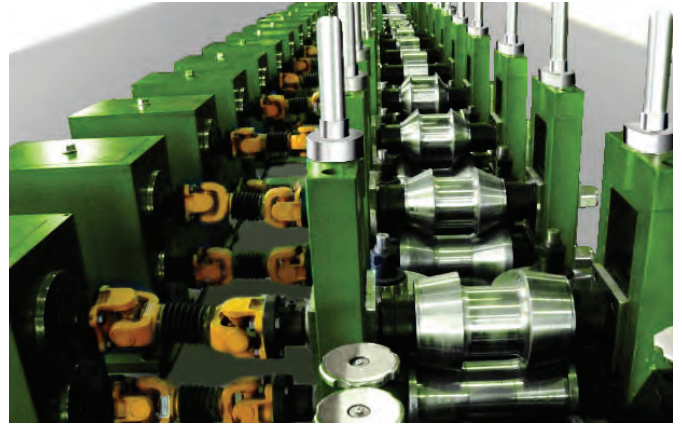
Notes:

- The colors which are printed on catalogue may be different from the real colors. Please contact sales department to be given color samples.
- Production of color coating steel as per customers requirements



STEEL PIPES

STEEL PIPE PRODUCTION LINE



STEEL PIPE PRODUCTION LINE

| | | | |
|---------------|--|--|---|
| Materials | HRC, CRC, GI, HGI | Thickness | 0.6 ÷ 4.0 (mm) |
| Length | Standard 600mm According to customer's requirements | Products | Galvanized steel pipe Black steel pipe |
| Specification | Round steel pipe | As per the available size ranges table | |
| | Square steel pipe | | |
| | Rectangular steel pipe | | |

AVAILABLE SIZE RANGES TABLE - ROUND STEEL PIPES

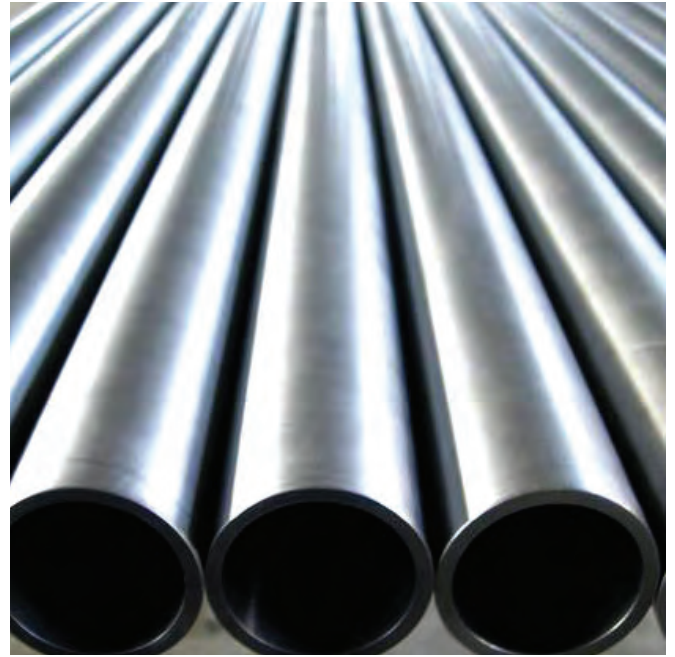
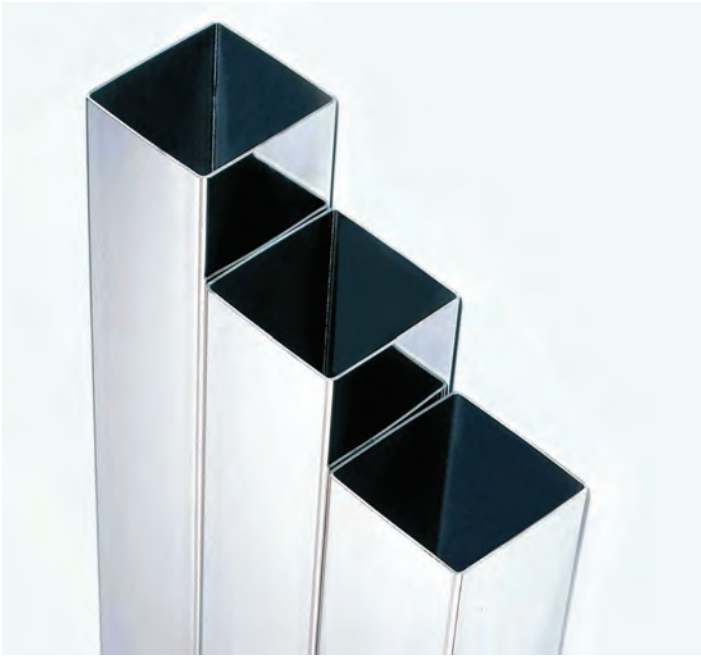
| OUTSIDE DIMENSION (m.m) | 6M-BAR (BUNDLE) | WALL THICKNESS (m.m) | | | | | | | | | | | | | | | |
|-------------------------|-----------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.5 | 1.6 | 1.8 | 2.0 | 2.5 | 2.8 | 3.0 | 3.2 | 3.5 |
| 12.7 | 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 13.8 | 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 15.9 | 20 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 19.1 | 20 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 22.2 | 20 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| 25.4 | 20 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| 28.6 | 20 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 31.8 | 20 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 38.1 | 20 | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 50.8 | 20 | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 63.5 | 10 | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 21 | 20 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| 27 | 20 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| 34 | 20 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| 42 | 20 | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 49 | 20 | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 60 | 10 | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 76.2 | 10 | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 89.1 | 5 | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 114 | 5 | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

AVAILABLE SIZE RANGES TABLE - SQUARE STEEL PIPES

| OUTSIDE DIMENSION (m.m) | 6M-BAR (BUNDLE) | WALL THICKNESS (m.m) | | | | | | | | | | | | | | | |
|-------------------------|-----------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.5 | 1.6 | 1.8 | 2.0 | 2.5 | 2.8 | 3.0 | 3.25 | 3.5 |
| 14x14 | 100 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 16x16 | 100 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 18x18 | 100 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 20x20 | 100 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 25x25 | 100 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 30x30 | 100 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 38x38 | 25 | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 40x40 | 25 | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 50x50 | 25 | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| 60x60 | 25 | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 75x75 | 25 | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 90x90 | 25 | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

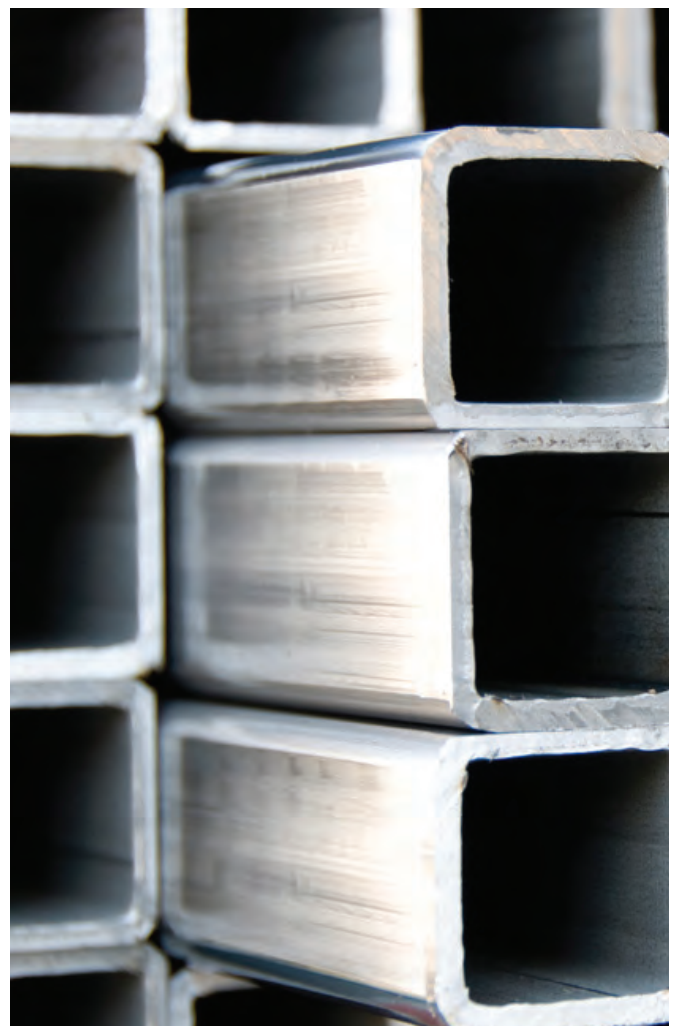
AVAILABLE SIZE RANGES TABLE - RECTANGULAR STEEL PIPES

| OUTSIDE DIMENSION (m.m) | 6M-BAR (BUNDLE) | WALL THICKNESS (m.m) | | | | | | | | | | | | | | | |
|-------------------------|-----------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.5 | 1.6 | 1.8 | 2.0 | 2.5 | 2.8 | 3.0 | 3.25 | 3.5 |
| 13x26 | 50 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 10x29 | 50 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 20x25 | 50 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 15x30 | 50 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 20x30 | 50 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 25x30 | 50 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 12x32 | 50 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 20x40 | 50 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 25x50 | 50 | | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| 15x60 | 50 | | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| 30x60 | 50 | | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| 40x80 | 20 | | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| 30x90 | 20 | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| 45x90 | 20 | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| 50x100 | 18 | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 60x120 | 18 | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |



Applications:

- Used in construction buildings, pre-engineering steel buildings, houses, schools, offices, buildings...
- Stamping, forming, scaffolding, reinforcement phase, vehicle chassis, equipments, interior decoration...





OTHER PRODUCTS



CUT-TO-LENGTH LINE

| | | | |
|-----------|--------------------|----------------------|------------------|
| Capacity | 100,000 (MTs/year) | Base metal thickness | 0.3 ÷ 12.0 (mm) |
| Length | 500 ÷ 9,000 (mm) | Width | 500 ÷ 2,000 (mm) |
| Inner Dia | 508 ÷ 850 (mm) | Outer Dia | 2,000 (mm) |



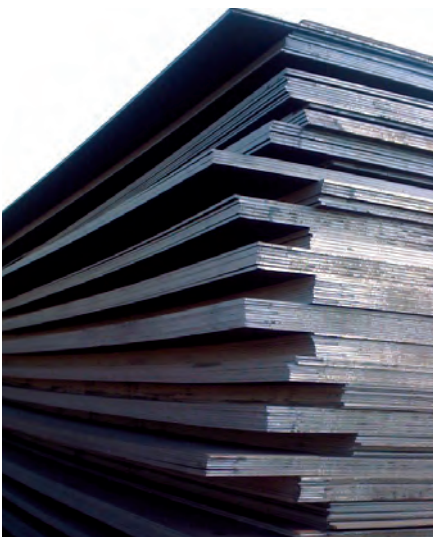
SLITTING & SHEARING LINE

| | | | |
|-----------|--------------------|----------------------|-----------------|
| Capacity | 100,000 (MTs/year) | Base metal thickness | 0.5 ÷ 4.0 (mm) |
| Width | 900 ÷ 2,000 (mm) | Coil weight | Max 25,000 (kg) |
| Inner Dia | 508 ÷ 610 (mm) | Outer Dia | 1,900 (mm) |



HOT ROLLED STEEL SHEETS IN COILS

| | | |
|---------------------|---|--|
| Standard | Unit | JIS, ASTM... |
| Grades | | SPHT1, SPHC, SS400, SS490, C8-20 KT1, Q235, A36, A573... |
| Thickness | mm | 1.5 ÷ 20.0 |
| Thickness Tolerance | mm | As per standards |
| Width | mm | 650 ÷ 1,350 |
| Width Tolerance | mm | As per standards |
| Coil weight | MT | Max: 25 - Min:11 |
| Applications | Production of cold rolled steel products, cut-to-length steel, slitting & shearing steel, purlins and steel pipes | |

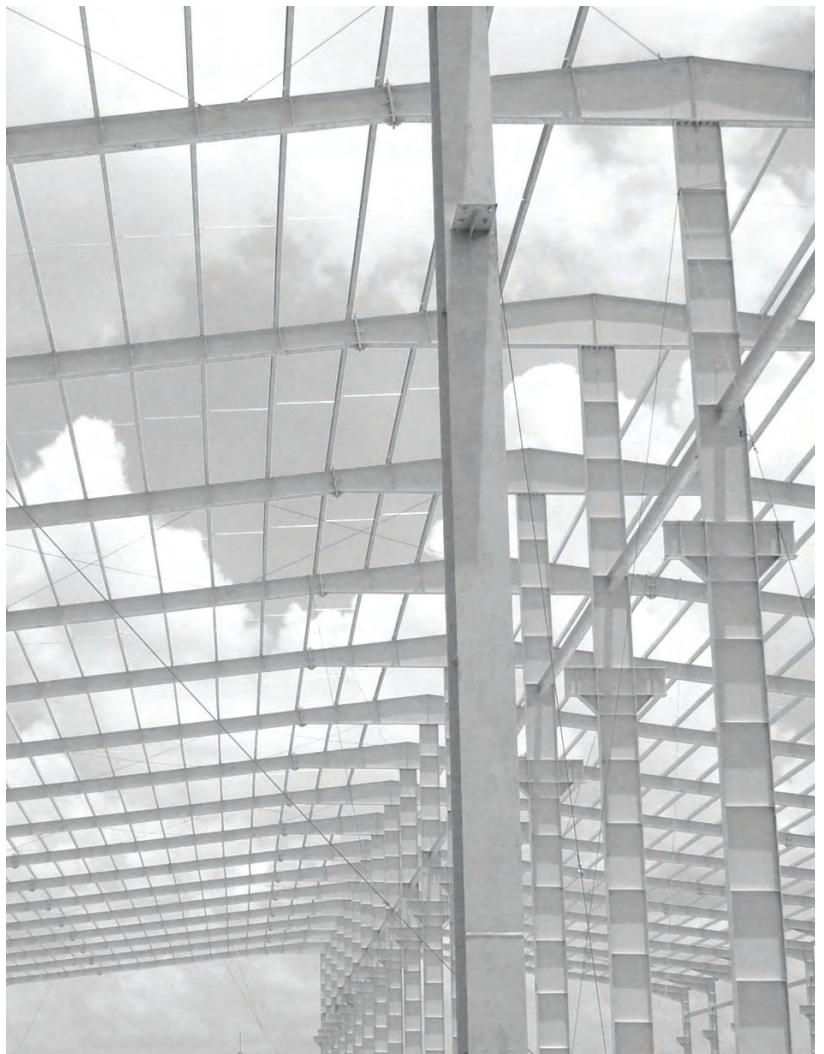


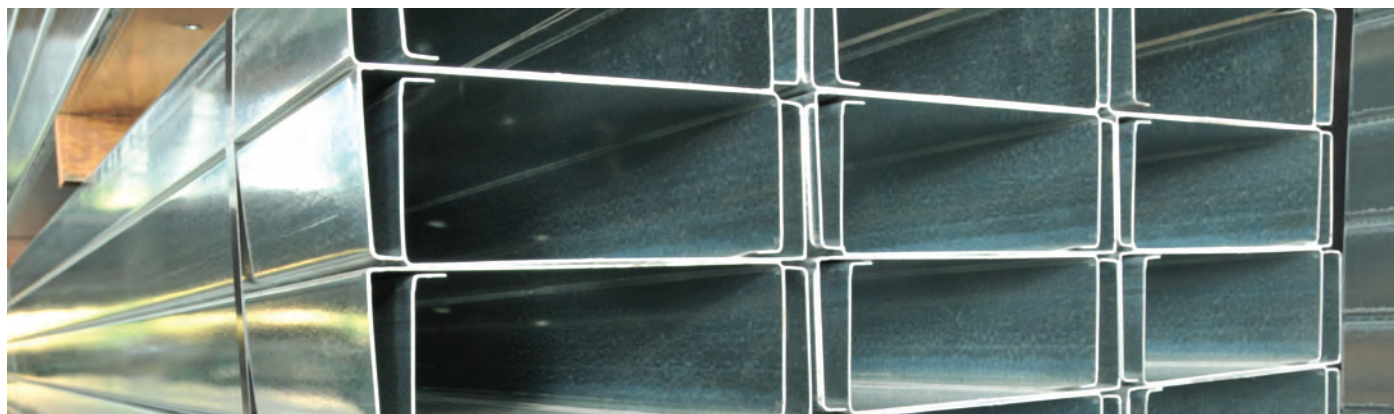
HOT ROLLED STEEL SHEETS

| | |
|--------------|--|
| Standard | JIS, ASTM... |
| Grades | SPHC, SAE1008, SS400, CT3, A36, A572, Q235, Q345B, Q4600... |
| Thickness | 3 ÷ 100 (mm) |
| Width | 750 ÷ 3,000 (mm) |
| Length | 3,000 ÷ 12,000 (mm) |
| Applications | Workshop structure, mechanics, construction, machine building, boiler... |

Applications:

Production of cold-rolled steel, industrial & civil construction, civil, mechanical machines, tools, instruments, structures buildings, tanks, purlins, steel pipes and many other applications.





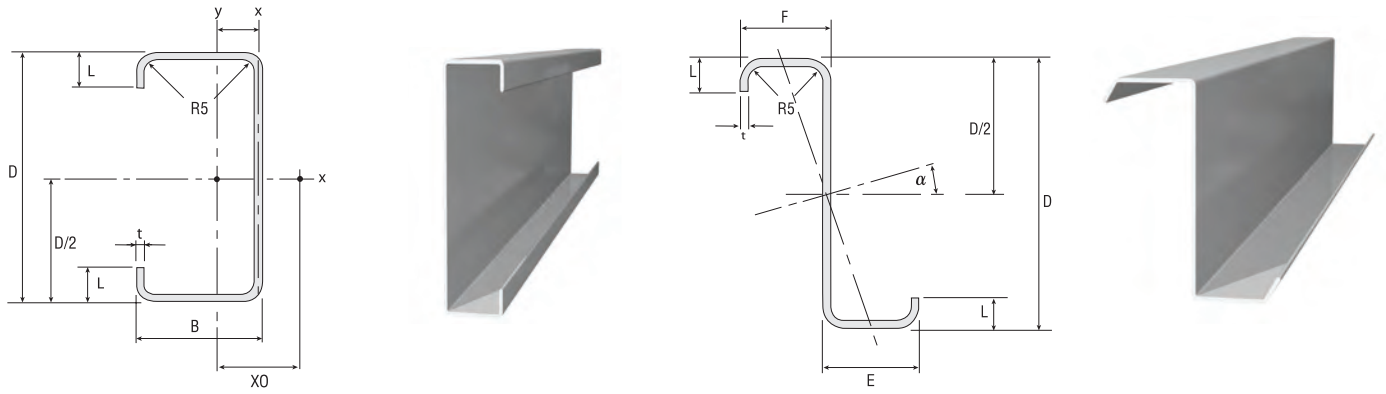
AVAILABLE RANGES TABLE - GALVANISED C PURLIN

| Outside Dimension (m.m) | Wall Thickness (t) (m.m) | | | | | | | | | NOTE |
|-------------------------|--------------------------|-----|-----|---|-----|-----|---|-----|---|------|
| | 1.2 | 1.5 | 1.8 | 2 | 2.5 | 2.8 | 3 | 3.5 | 4 | |
| D x B x L x t | | | | | | | | | | |
| 60 x 30 x 12 | ● | ● | | | | | | | | |
| 75 x 45 x 13 | | ● | ● | | | | | | | |
| 80 x 40 x 14 | | ● | ● | ● | | | | | | |
| 100 x 50 x 15 | | | ● | ● | ● | | | | | |
| 120 x 50 x 15 | | | | ● | ● | | | | | |
| 125 x 50 x 15 | | | | ● | ● | | | | | |
| 150 x 50 x 15 | | | | ● | ● | ● | ● | | | |
| 175 x 50 x 16 | | | | ● | ● | ● | ● | | | |
| 200 x 50 x 18 | | | | ● | ● | ● | ● | ● | ● | |
| 250 x 50 x 20 | | | | ● | ● | ● | ● | ● | ● | |
| 150 x 65 x 15 | | | | ● | ● | ● | ● | | | |
| 175 x 65 x 16 | | | | ● | ● | ● | ● | | | |
| 200 x 65 x 18 | | | | ● | ● | ● | ● | ● | ● | |
| 250 x 65 x 20 | | | | ● | ● | ● | ● | ● | ● | |
| 300 x 65 x 22 | | | | | ● | ● | ● | ● | ● | |
| 250 x 75 x 20 | | | | | ● | ● | ● | ● | ● | |
| 300 x 75 x 22 | | | | | ● | ● | ● | ● | ● | |

AVAILABLE RANGES TABLE - GALVANISED Z PURLIN

| Outside Dimension (m.m) | Wall Thickness (t) (m.m) | | | | | | | NOTE |
|-------------------------|--------------------------|-----|-----|-----|-----|-----|---|------|
| | 1.5 | 1.8 | 2.0 | 2.3 | 2.4 | 2.5 | 3 | |
| D x E x F x L x t | | | | | | | | |
| 125 x 50 x 56 x 16 | | ● | ● | ● | ● | ● | ● | |
| 150 x 50 x 56 x 16 | | ● | ● | ● | ● | ● | ● | |
| 175 x 50 x 56 x 16 | | | ● | ● | ● | ● | ● | |
| 175 x 60 x 66 x 16 | | | ● | ● | ● | ● | ● | |
| 200 x 50 x 56 x 16 | | | ● | ● | ● | ● | ● | |
| 200 x 60 x 66 x 16 | | | ● | ● | ● | ● | ● | |
| 200 x 70 x 76 x 16 | | | | ● | ● | ● | ● | |
| 250 x 70 x 76 x 16 | | | | ● | ● | ● | ● | |
| 300 x 70 x 76 x 16 | | | | ● | ● | ● | ● | |

APPLICATIONS OF PURLIN



Applications:

- Roof systems (tile roof, metal roof)
- Other applications: conventional purlins, display shelves, the beam for plastic ceiling, plasters, fences, flower trusses...



RECOMMENDATIONS

TRANSPORTATION:

- Transport carefully and properly weight.
- Tide and wedge steel sheets tightly.
- Cover the canvas outer of steel sheets to prevent from wetness in transportation process.

PRESERVATION:

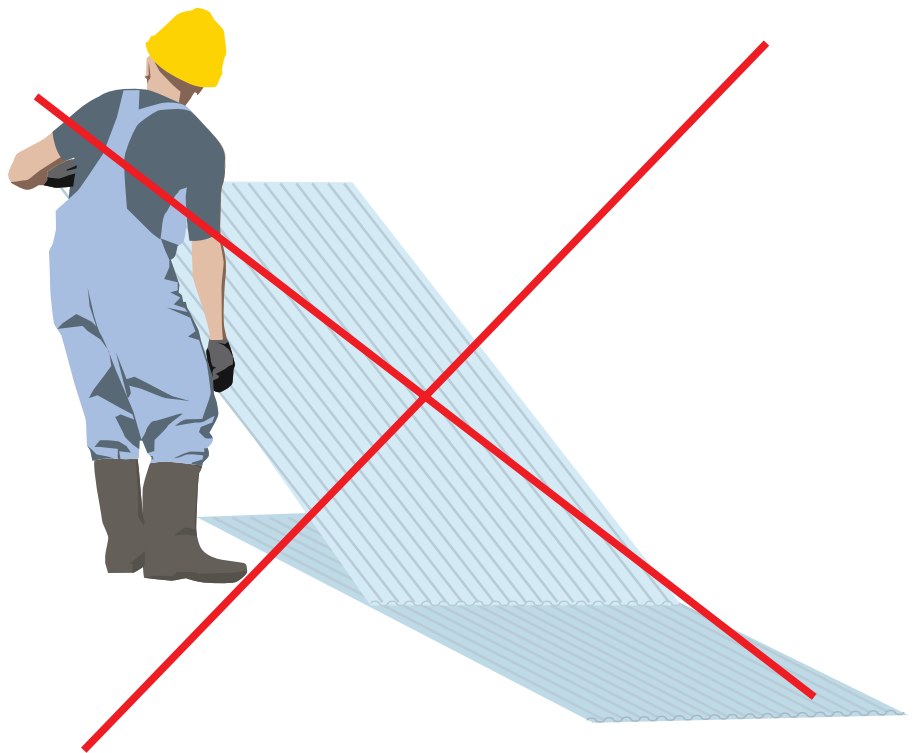
- Prevent steel sheets in roof-covering and aeration zone.
- Do not let steel sheets directly on the ground.
- Always keep steel sheets dry, make dry immediately against wetness.
- Do not pile on many layers to prevent deforming steel sheets in storage and transport.

USES:

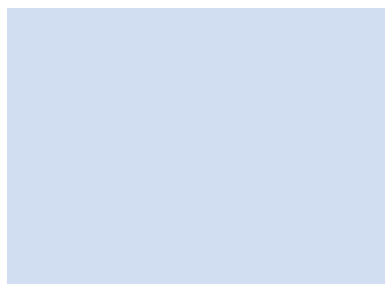
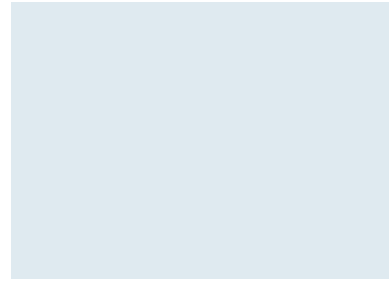
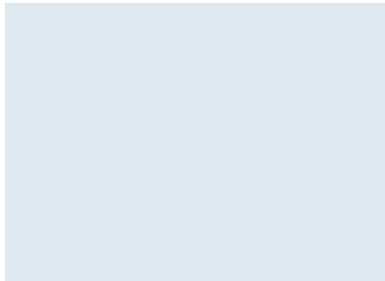
- Craning properly to protect the crane-man and other people round.
- Do not let corrugated steel sheets directly on the ground and separate each panel and place them in dry area.
- Avoid sliding the overlapping corrugated steel sheets in the process of sorting, loading, unloading or operating, because it will make the paint scratched, dirty or damage surfaces.
- After roofing, clean the remains of untensils and iron filings, brick scraps to protect against rust germ and make the surface of roof cleaner and brighter.
- Attention: wear the hard helmet, seatbelts, protection clothes, shoft-soled shoes and bring tool bags for best support and safe of roofing.



Use full protection clothes and equipment labor



Avoid sliding the overlapping corrugated steel sheets each other



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