

SERVICE SPEED SMILE

Join & Enjoy Our Best Service, Speed, Smile



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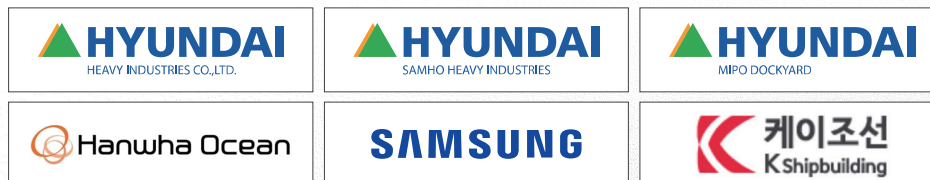
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Company Profile

Company Name	3S Co., Ltd.	CEO	Dong-Sik Son
Sales amount	12 billion won (2023)	Employee	25
Company Address			
Uiryeong #1	31-10, Guryong-ro, Uiryeong-eup, Uiryeong-gun, Gyeongnam-do, Korea		
Uiryeong #2	17, Guryong-ro, Uiryeong-eup, Uiryeong-gun, Gyeongnam-do, Korea		
Geoje	1570-24, Yeonhahae-ro, Hacheong-myeon, Geoje-si, Gyeongnam-do, Korea		
Business field			
Shipbuilding Equipment : Cable Tray & Steel outfitting etc.			
Onshore & Offshore Plant : Structure and Supports			

Major Customer

Domestic



Foreign



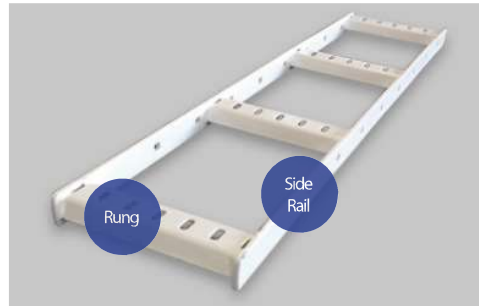
History

- 2011.07** Established 3S
- 2012.05** Established 3S Co.,Ltd. Completed Uiryeong No.1 factory
- 2012.06** Certificated ISO 9001
- 2013.05** Registered as DSME 1st sub-vendor
- 2013.06** Certificated ISO14001
- 2014.03** Patented "Cable tray and manufacturing process"
- 2014.05** Registered as HDSH 1st sub-vendor
- 2014.08** Completed Uiryeong No.2 factory
- 2015.11** Awarded "Certificate of accompanied growth" by ministry of trade, industry and energy
- 2016.02** Registered as HHI 1st sub-vendor
- 2017.02** Certificated "Green Technology"
- 2019.07** Awarded Presidential Citation as "Green Management"
- 2023.02** Participated Hanwhaocean "NOC project"

Cable Tray

Cable Tray

- This is a support structure (fixture) made of flame-retardant or metal materials in order to support or protect cables line, When to route the electric power, telecommunication & instrumentation cables.
- Cable Tray consist of Side Rail & Rung.



01 MARINE TRAY



MATERIAL	SS400/ SUS316
SIZE	H38 W100, 200, 300, 400, 500, 600, 700, 800, 900 L~3000
SPECIAL	W1000,1100,1200

02 LADDER TRAY



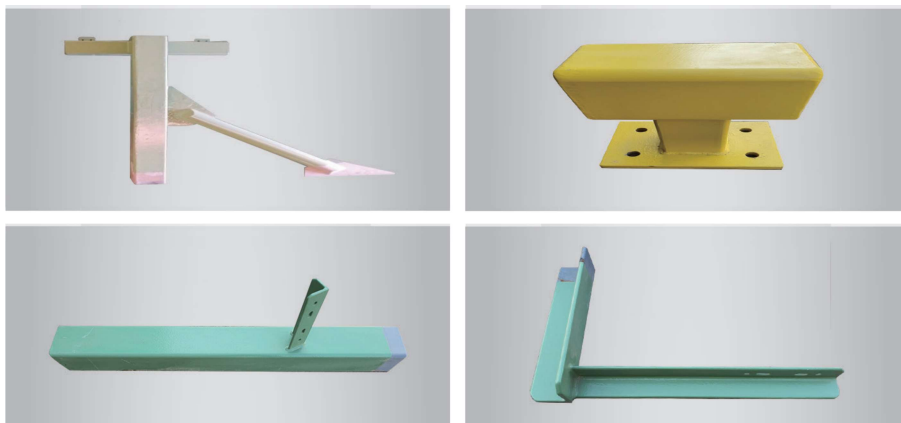
MATERIAL	SS400/ SUS316
SIZE	H75,100,150 W150, 200, 300, 450, 600, 750,900 L~6000

03 CHANNEL TRAY



MATERIAL	SS400 1.6~2.3T/ SUS316 1.0~2.0T
Size	H50,75 W50,75,100,150,200,300,400

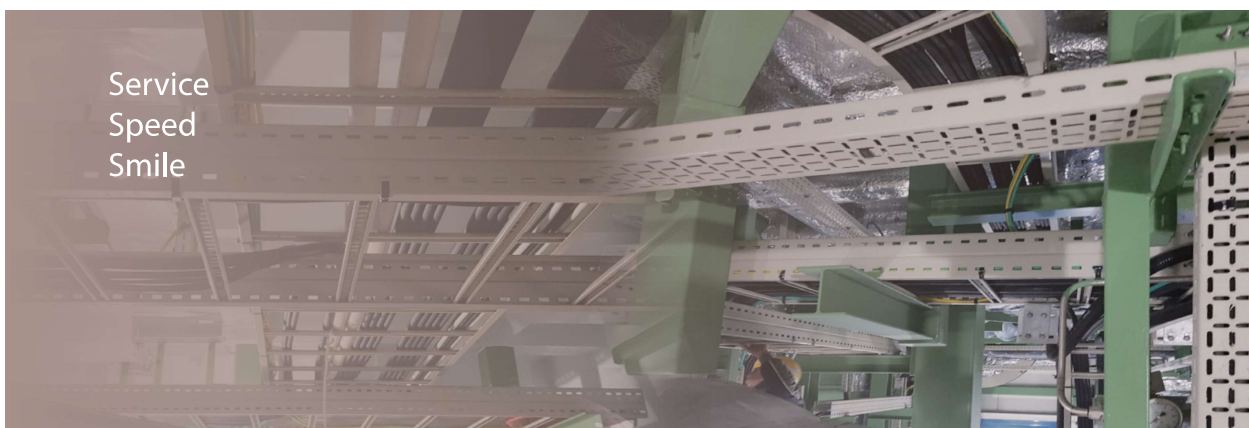
04 PIPE SUPPORT



SPECIFICATION	PIPE SUPPORT, CABLE TRAY SUPPORT AS PER BUILDERS, FABRICATION DRAWINGS
MATERIAL	SS400/ SUS304 / 2W50/ A572-50/ S355J2/ A36/ EH36/ A500-B

► Customer orders can be made in addition to the above technical specifications.

Service
Speed
Smile



Diet Cable Tray

Diet Cable Tray

- This is support structure made of metal materials in order to support or protect cables line, When to route the electronic power, telecommunication & instrumentation cables.
- Diet tray is composed of Side Rail and Rung.
- Non-welding and All-in-one type



Non-Welding Type / Diet Tray

- World 1st non-welded type of cable tray
- Similar load stress to welded cable tray
- The productivity over Stimes than welded cable tray
- Cost reduction by weight lighter more than 15%
- Productivity & Quality Improvement

01

Marine Tray



Material	SS400 / Max 3.2T SUS / Max 3.0T
Size	W100~900 / H40, H50
Length	Max L 6,000

02

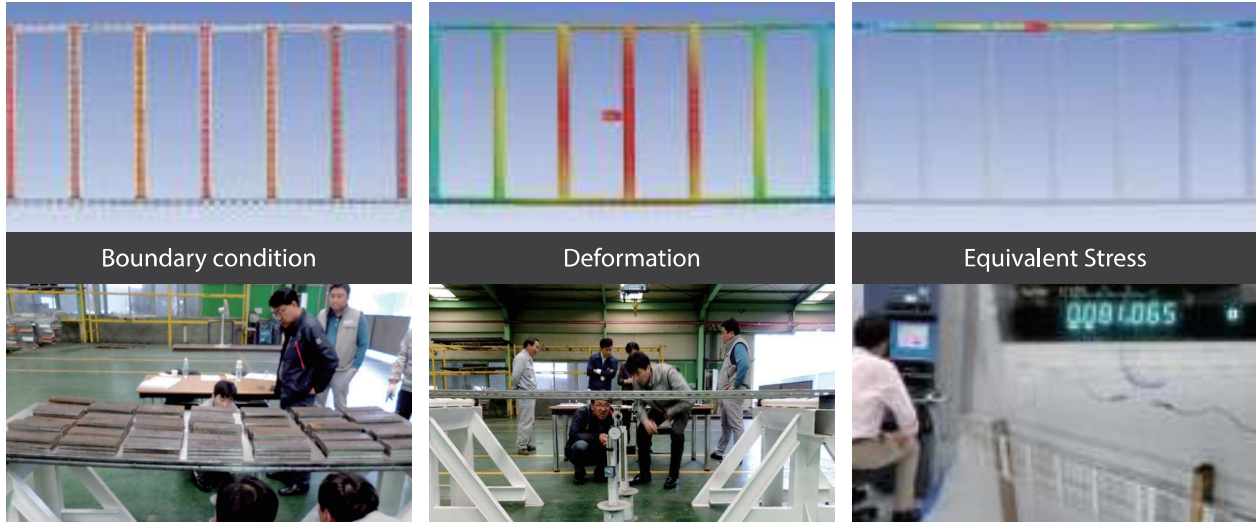
Ladder Tray



Material	SS400 / Max 3.2T SUS / Max 3.0T
Size	W200~900 / H100, H150
Length	Max L 6,000



Optimum Design | Efficiency Test



Diet type cable tray(Marine), H40 x 3.0t, Mild Steel

CABLE TRAY LOAD TEST FOR 3S-DT40-STR1 (DIET TRAY SS400)

CSA Standard C22.2 NO 126.1-09/NEMA VE 1-2009, Clause 5.2.9

Submitter : 3S CO., LTD.

loading to Residual Deflection Test Method (Deflection Load) : B

Tray Size (mm) : 900 x 2300 x 40 Thickness : 3.0mm

Span (L) : 2.3m

Weight/Price : 4.0 kg / Piece

load Class : NEMA 7C Safety factor (S) : 3.5

Rated Linear Load (W) : 149 kg/m Distributed Load: Kg/m

10% Min Load: 46.94kg Rated Load (L x W) : 312.9kg

Total Test Load (L x W x S) : 469.35kg

MATERIAL : SS400	MEASUREMENT LOCATION		
LOADING RESULTS	Side Rail 1	Center	Side Rail 2
10% MIN LOAD READING (mm)	5	8	4.74
RATED LOAD READING (mm)	22.8	26.89	21.9
TOTAL TEST LOAD READING (mm)	40.2	46.3	39.08
RESIDUAL READING (mm)	1.35	4.45	1.43
RESIDUAL / INITIAL (%)	27.0	55.6	30.2

Results ☒ PASS / ☐ FAIL (PASS : Residual deflection shall be measured within 80% of the initial deflection)

REV.	Contents of change	Prepared by	Reviewed by	Approval for the Class
0	Date: 2016.11.10	Date: 2016.11.18	Date:	
	Name: Jang In Young	Name: Lee Sang Wook	Name:	
	Sign: [Signature]	Sign: [Signature]	Sign:	

3S CO., LTD.

Witnessed and found to comply with CSA NEMA Standard Date: 19 Sept 2016 Sign: [Signature]

Standard Name

DIET TRAY (Straight-type)

1. Straight-Type

SEC. A - A

RUNG DETAIL

L (Length)

S	A	B	C	D	E
700	1000	1300	1600	1900	2200

W (Width)

1	2	3	4	5	6	7	8	9
100	200	300	400	500	600	700	800	900

NOTE)
1. MAT.: Mild Steel 2.5T
Mild Steel 3.0T
Stainless Steel 2.5T

Prepared for Load Test		DRILLER	COIN	START	ACORN
Description		Rate	PHS	CHK	APP.
HP.	B.5mm				
TH.	1.5mm				
THC	0.8mm				
THC	1.0mm				
THC	1.5mm				
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THC	100.0mm				

3S CO., LTD.

NEMA 7C, 3.0T, W900, DNV Witnessed

Special Material(PosMAC)

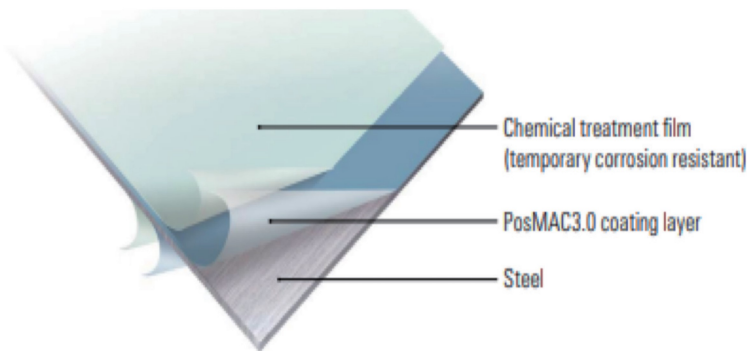
With PosMAC, strong corrosion resistance can be achieved without hot-dip galvanizing.

What is PosMAC 3.0?

PosMAC3.0(POSCO Magnesium Aluminium alloy Coating product) Is a ternary alloy coated steel(2- 3%Mg-2.5%Al) with high corrosion resistance developed with POSCO's own technology.

PosMAC®3.0 is the registered trademark of POSCO.

Product configuration



Product characteristics

- PosMAC3.0 is a corrosion resistant products that is 5 to 10 times stronger resistance than that of a normal hot-dip galvanized steel sheet(GI, GI(H)) with the same coating weight. PosMAC3.0 has an excellent cross-section corrosion resistance; normal thick plating products can be replaced with this product.
- The same processing, assembly and painting process can be applied to PosMAC3.0 as one would apply to GI.

PosMAC® 강재	PosMAC® 1.5 (1-2% Mg)	PosMAC® 3.0 (≒ 3% Mg)	PosMAC® Super (5-6% Mg)
개발 및 용도	미려한 표면 외관을 가지며, 자동차 및 가전용으로 적합	강건재 및 에너지 분야에서 적합하며 GI대비 5배 이상의 우수한 내식성 보유	고염도 및 높은 습도의 수상환경, 공업지역 등 특수환경에 대응 가능한 친환경 강재 (PosMAC Super : PosMAC3.0 대비 2배 수준의 내식성)

Increase of Mg in Coating for Anti-Corrosion

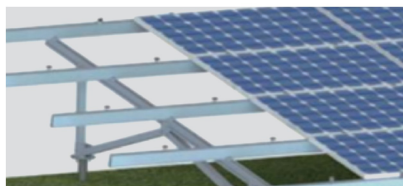
Mg 1-2%

- Automotive
- Appliances



Mg -3%

- Construction
- Utilities

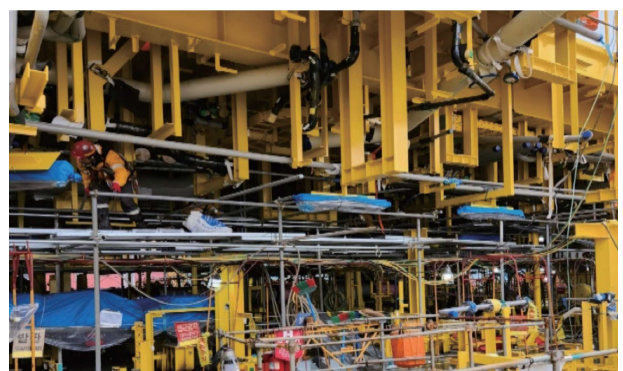
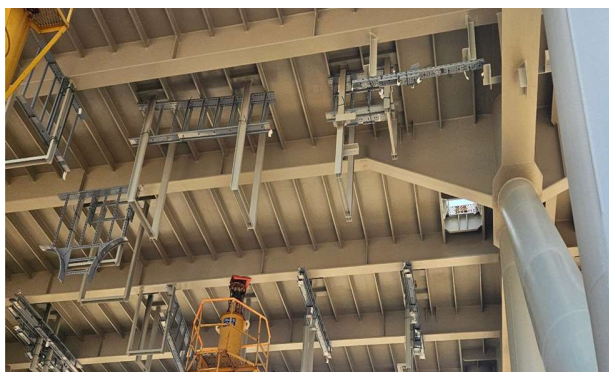


Mg 5-6%

- Severe Conditions
- Longer life

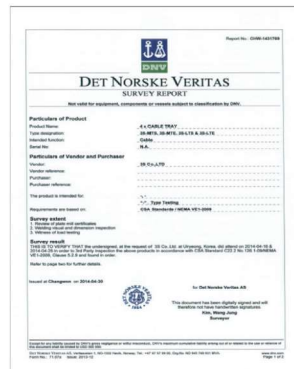
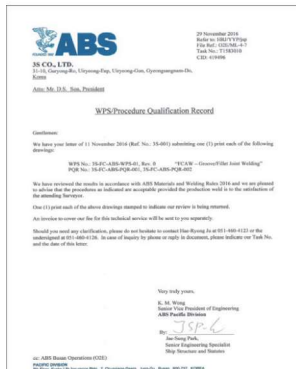
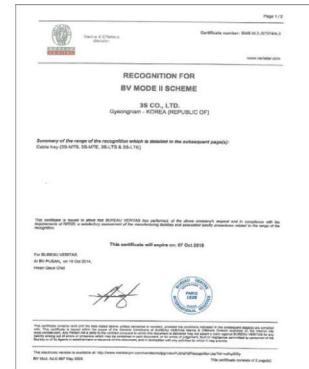


Supports & Structures



Certificate

ISO 9001,14001 & Class approval (DNV,BV,LR,ABS)



Partner Company



SPECIAL BOLT

- Bolt for Vessel Engine
- Bolt for Power Turbine
- Other Customer Requirements



STUD TYPE BOLT

- Full Thread STUD BOLT
- Double End Thread STUD BOLT
- ANCHOR BOLT
- U-BOLT, etc



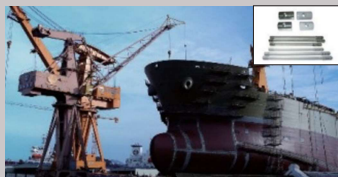
HEAD TYPE BOLT

- HEX BOLT
- T-HEAD BOLT
- WRENCH BOLT
- ROUND HEAD BOLT, etc



HEAVY HEXAGON NUTS

- HEX or H.V HEX NUT
- ROUND HEAD NUT
- LOCK NUT
- FLANGE NUT
- EYE NUT, etc



Shipbuilding



Offshore Plant



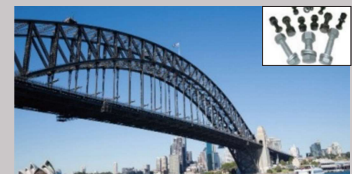
Nuclear Power Plant



Engineering



Wind Plant



Construction

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