



Innovative Gates, Fences & Handrail Systems

MODULAR HANDRAIL SYSTEMS



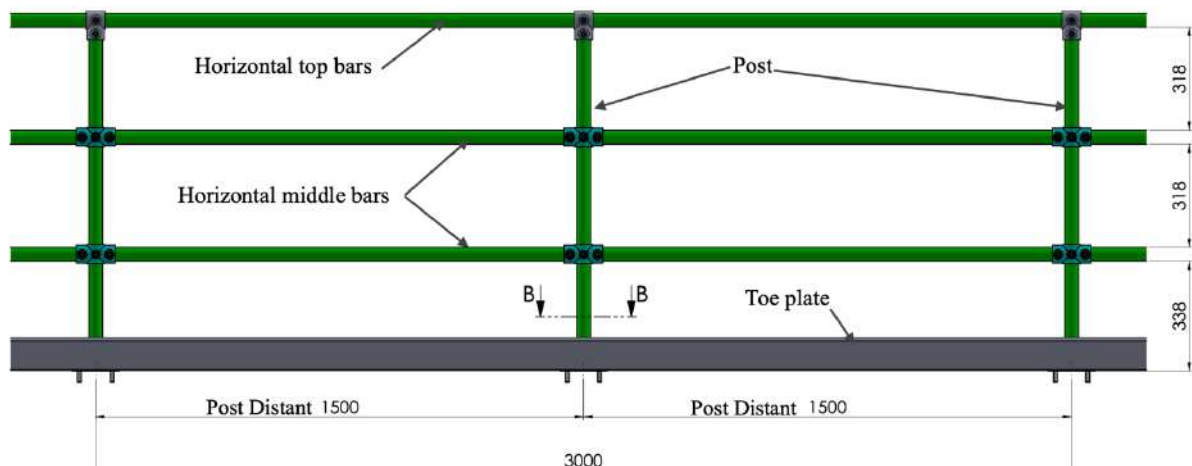
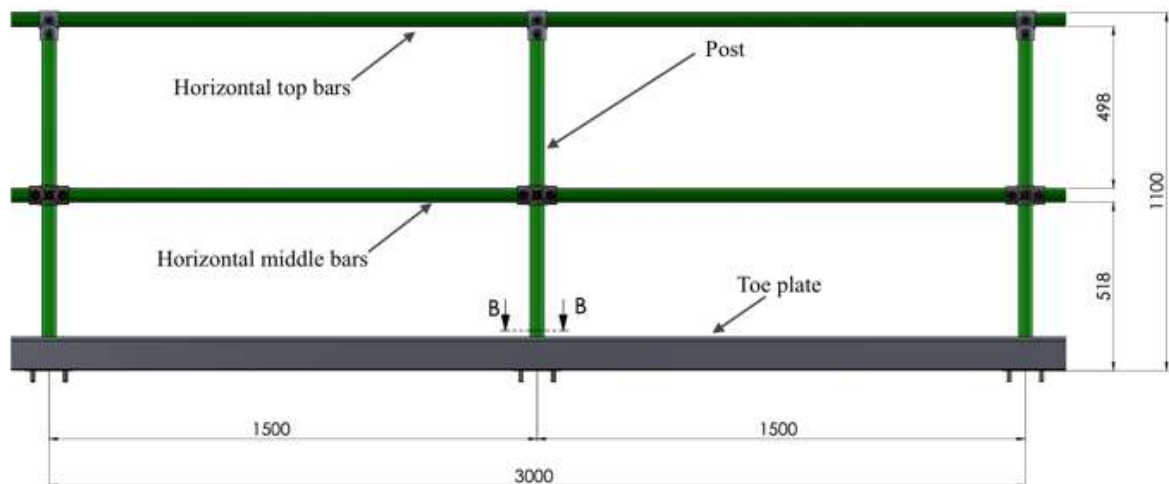
STVS MODULAR HANDRAIL SYSTEMS

COMPLETE SAFETY RAILING SOLUTION FAST. FLEXIBLE. CERTIFIED.

FEATURE	ADVANTAGE	BENEFIT
Modular, Weld-Free Design	Assembled with bolts, no welding or hot works on site	Fast and safe installation without damaging protective coatings
Factory-Finished with Pre-Coated Parts	No need for on-site painting or coating repairs	Long-lasting corrosion resistance, minimal maintenance required
International Code Compliance (AS/NZS, OSHA, ISO, BCA)	Fully tested and engineered to meet global safety standards	Approved for major industrial and infrastructure projects
Quick Installation with Basic Tools	No need for skilled welders or complex equipment	Reduced labor costs and lower risk of jobsite accidents
Reconfigurable & Reusable	Easy to dismantle and relocate for new configurations	Ideal for both temporary and permanent setups, maximizing ROI

TOP WORLD-CLASS, BEAUTIFUL CLAMP FITTING BY STVS MODULAR









ROOF HANDRAIL



PARKING AREAS



RAM



WATER TREATMENT



WALK WAY



EDGE PROTECTION

TESTED HANDRAIL SYSTEMS

DESIGN & TESTED EXCEEDS BS ISO 14122-3 STANDARD



FOCUS PULL 200 KG INTO MIDDLE OF TOP RAIL WITHIN 2 MINUTES



**PULL 150 KG INTO MIDDLE POST
RESULT NO CHANGE SHAPE**



Test Report

No. VNHL1907012485HG

Date: August 23, 2019

Page 1 of 6

STVS CO., LTD

37 HOA MAI, WARD 2, PHU NHUAN DISTRICT, HO CHI MINH CITY, VIETNAM

The following sample(s) was/were submitted and identified by the client as:

SGS Job No. : VNHL1907012485HG

Sample Description : ASSEMBLY HANDRAIL "(LAN CAN LAP RAP)"

Color : "MA KEM" (GALVANIZED)

Characteristic : "THEP MA KEM NHUNG NONG"

Style / Item No. : CP32HB3P0G0

Date of Production : 06/2019

Manufacturer : STVS CO., LTD

Buyer : STVS CO., LTD

Country of Origin : VIET NAM

Country of Destination : WORLD WIDE

Other Information : ASSEMBLY HANDRAIL
PIPE DIMENSION: 42.2x3.2mm
POST CENTRE DISTANT: 1500mm
HEIGHT: 1050mm
HORIZONTAL BARS QUANTITY: 2 BARS
ANCHOR BOLT: M12-100
FINISHING: HOT DIP GALVANIZED
MANUFACTURE: STVS CO., LTD

Sample Receiving Date : JULY 29, 2019

Final confirmed Date : JULY 29, 2019

Testing Period : JULY 29, 2019 TO AUGUST 05, 2019

Test Requested : SELECTED TEST (S) AS REQUESTED BY CLIENT.

Test Results : PLEASE REFER TO NEXT PAGE(S).

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Member of the SGS Group (SGS SA)



Test Report

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Signed for and on behalf of
SGS Vietnam LTD



Wong Cho Wing
Hardline and E&E Lab Manager

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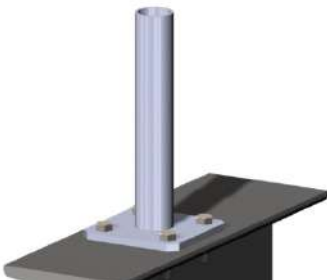
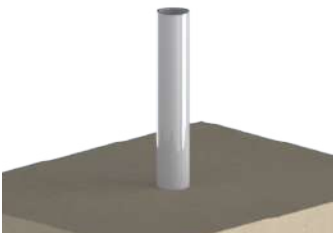
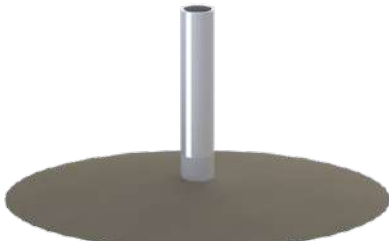
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TECHNICAL SPECIFICATION

Material	Clamp fitting	Ductile iron
	Tube	Steel tube according to ASTM A500 or BS 1387
	Bolt	Steel
	Toe plate (If need)	Aluminium 6063-T5 grade/ Steel
Dimension	Height (mm)	1100
	Post distant (mm)	Max 1500
	Post section:	D42.2
	Horizontal bars section:	D42.2
	Clamp fitting thickness:	Average 5.0mm
	Fitting set screw (mm)	M16-12
	Wedge anchor (mm)	M12-100
	Note:	Tube wall thickness and post distance can be modified to comply with the country's design standards and regulations
Finishing:	Clamp fitting	- Hot dip galvanized + Electro galvanized - Powder Coating
	Steel tube	- Hot Dip galvanized - Liquid coating: G3/G4/G5 - Powder coating: G1/ G2
Warranty:	C2→C5 environemt	5 years

CONFIGURATION:

		
TOP MOUNT (TM1)	TOP MOUNT 2 (TM2)	SIDE MOUNT (SM)
		
ANGLE MOUNT 1 (AM1)	BURIED MOUNT 1 (BM1)	BURIED MOUNT 2 (BM2)



ALUMINUM ALLOY MODULAR HANDRAIL

Engineered for Harsh Environments – Durable. Sustainable. Compliant.

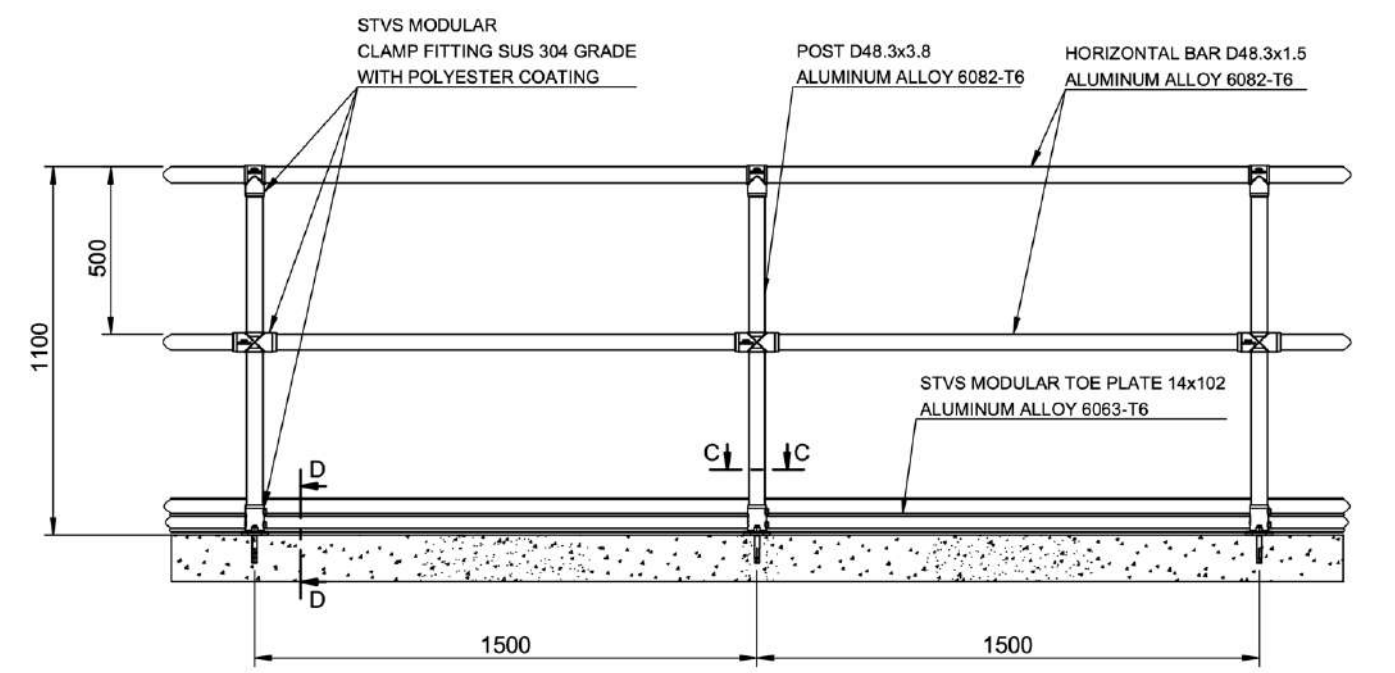
PRODUCT DESCRIPTION:

STVS Modular aluminum alloy handrails are specifically engineered for **harsh environments** where **corrosion resistance, durability, and safety are critical**. Made from high-quality aluminum alloy (6082-T6) and stainless steel clamp fittings (SUS 304 or 316 grade), these handrails provide a long-lasting, maintenance-free solution that ensures both functionality and safety.

FEATURE	ADVANTAGE	BENEFIT
Corrosion-Resistant & Durable	Designed to withstand moisture, chemicals, and extreme weather	Ideal for water treatment plants, marine, and industrial zones – long-lasting protection
Stainless Steel Clamp Fittings – No Welding Required	Maintains the structural integrity of aluminum by avoiding heat-affected zones	Ensures full corrosion resistance and mechanical strength
Modular, Pre-Engineered Components	Quick assembly with bolts and clamps – no welding, minimal tools required	Saves time and labor costs on-site, reduces safety risks
Lightweight Aluminum Alloy (6082-T6)	High strength-to-weight ratio as steel, easy to transport and handle	Faster installation with less manpower – ideal for elevated or confined spaces
Low Maintenance, Long-Term Investment	Rust-resistant and durable in corrosive environments	Lower total cost of ownership – minimal upkeep required over decades of use
Safety Compliance	Designed to meet ISO 14122-3 and local safety standards	Protects workers and reduces liability with smooth edges and anti-slip options
Eco-Friendly Material	Made from 100% recyclable aluminum	Supports sustainable development goals and reduces environmental footprint

These are ideal for **water treatment plants, offshore facilities, food factories, and** other environments that require robust, **low-maintenance** safety barriers.

TECHNICAL SPECIFICATION



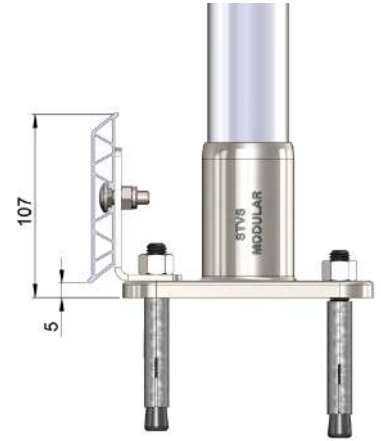
Material	Clamp fitting	SUS 304 with Polyester coating
	Tube	Aluminium alloy 6082-T6
	Bolt	SUS 304
	Toe plate (If need)	Aluminium 6063-T5 grade
Dimension	Height (mm)	1100
	Post distant (mm)	1500
	Post section:	D48.3
	Horizontal bars section:	D48.3
	Clamp fitting thickness:	Average 3.5mm
	Fitting set screw (mm)	M16-12
	Wedge anchor (mm)	M12-100
	Note:	Tube wall thickness and post distance can be modified to comply with the country's design standards and regulations
Finishing:	Clamp fitting	SUS 304 with Polyester cover
	Aluminum	Option 1: PE powder coating paint AAMA 2604 Option 2: Anodized 20 micromet
	Bolts	SUS 304 raw
Warranty:	C2→C5 environemt	10 years
	C5X environemt	05 years (Min 50m distant, no direct chemical touch)

BANANA STEM TOE PLATE® SYSTEMS

STVS BANANA STEM toe plate systems are made by aluminum and design follow BS-EN ISO 14122 standard.

Extract: 7.1.7 A toe-plate with a minimum up stand of 100 mm shall be placed 10 mm maximum from the walking level and the edge of the platform.

The idea from banana stem structure give super strong toeplate also allows quick and easy installation. No drilling or welding, the structure allows for secure attachment with no exposed fasteners. Banana stem structure provides rigid non-buckling performance with the benefit of light weight, easy handling.



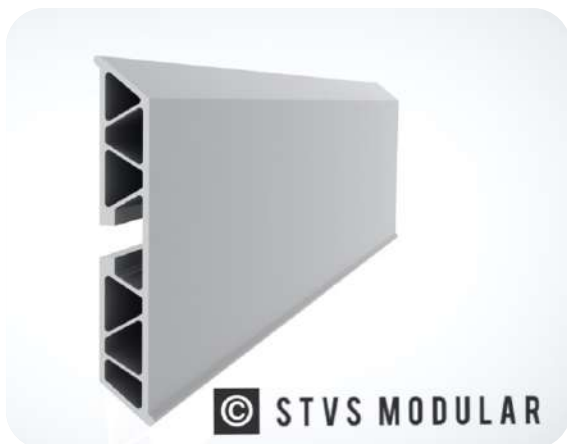
PRODUCT SPECIFICATION:

Dimension: 14mm thickness x 102mm height

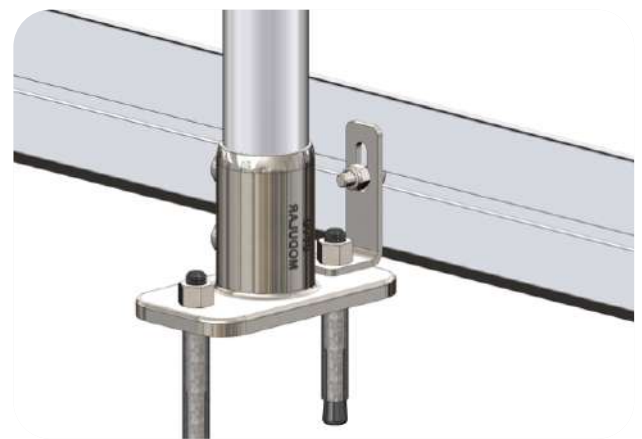
Material: Aluminum alloy 6063

Finishing: Powder coating in natural anodized coating (Yellow color available on request)

DURABLE - STRONGER – LIGHTER – EASY TO INSTALL



Lighter, stronger, much more beautiful and corrosion resistant compare to steel



**Flexible to install at site.
Hot dip galvanized finishing for accesories**