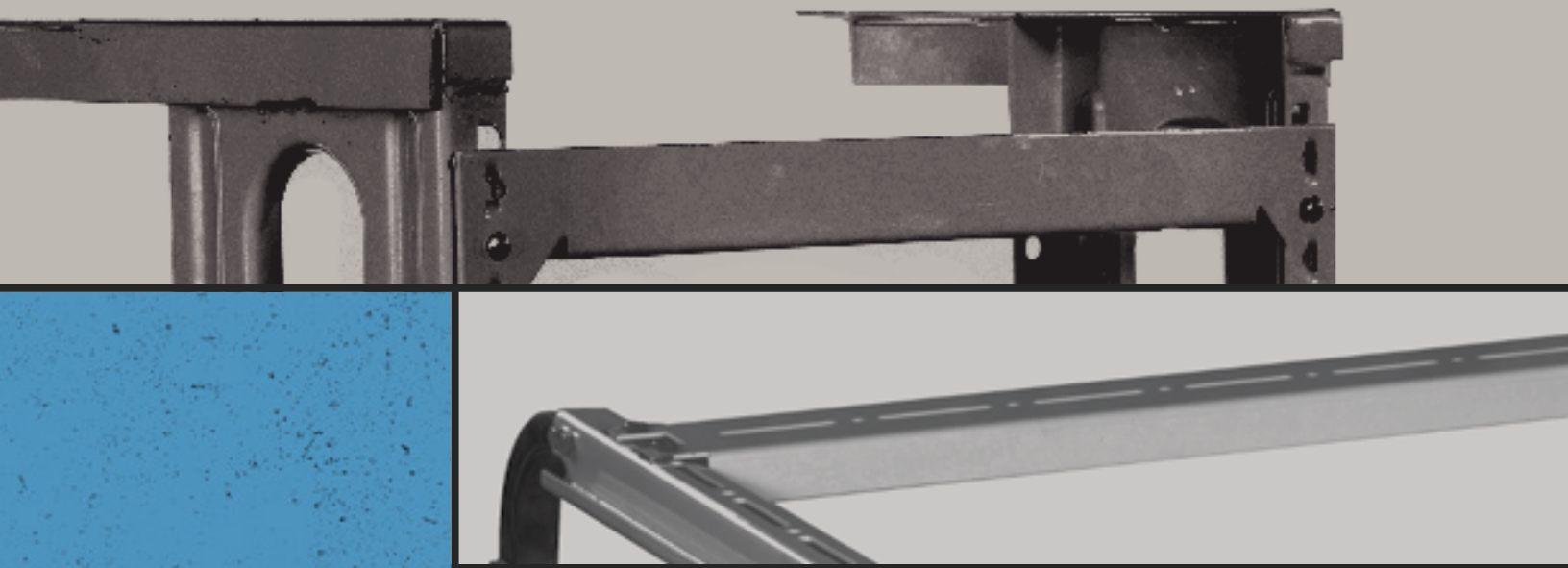


Products Catalogue



**ELECTRICAL
FIXATION
SYSTEM**



HARMONY[®]
SUPPLIER

QUALITY
EMPOWERS
YOU.

ABOUT HARMONY

0.1

Harmony Group is the national market leader in several sheet metal products and successfully develops new types of applications for sheet metal that can be used in various fields. The privately owned company based in Giza, Egypt, develops and manufactures high specialized products for different home appliances products.

The Factory is located in the 3rd industrial zone, 6th of October, Giza, Egypt. Harmony's facility covers a manufacturing area of 2000 m² where more than 250 hard working employee get the work done. Combining decades of technical experience with modern management. Harmony is constantly expanding its business.

CERTIFICATION

CERTIFICATES

ISO 9001:2015



ISO 14001:2015



Scan this QR Code with smartphone to verify the certificate

CERTIFICATE OF REGISTRATION



This is to certify that:

HARMONY
(ALAA OSAMA MAHMOUD AND HIS PARTNERS)

PLOT 230, THIRD INDUSTRIAL ZONE,
6TH OF OCTOBER, GIZA - EGYPT

Additional Site:
1, NEW MARWA BUILDING, AHMED TAYSEER STREET,
NASR CITY, EGYPT

the management system of the above organisation has been assessed and found to comply with the requirements of the management system standards detailed below

STANDARD

ISO 14001:2015

Environmental Management System

Certification Scope

Manufacturing of All Steel and Construction and Supports for Pipes and Process Components Products and Sheet Metal Fabrication.
Design, Supply, Installation, Testing, Commissioning & After Sales Service of All Types of HVAC (Heating, Ventilation and Air-Conditioning) Systems.
Design, Supply, Installation, Testing & Commissioning of All Types of Fire-Fighting Systems.

Certification Calendar

Certificate Number IAS2612144669	Date of Registration 26-Dec-2022	Validity **Validity of this certificate is subject to successful and timely completion of the annual surveillance audit.
Client ID HA2086	Valid From 26-Dec-2022	Note¹ : Certification cycle expiry date of this certificate is - 25-Dec-2025.
Revision No. 00	Valid Until 25-Dec-2023	Note² : Surveillance 01 will be due in the month of Nov-2023 and Surveillance 02 will be due in the month of Nov-2024.

**This certificate remains the property of SAGACI and shall have to be returned back when it has ceased to be valid, for whatever reason.
*Information about this certificate can be inquired at the official website of certification (www.sagaciert.com)



Authorized Signatory





ACCREDITED
Management System
Certification Body
ISO/IEC

SAGACI CERTIFICATIONS PRIVATE LIMITED
www.sagaciert.com

This certificate has been issued by Sagar Certifications Pvt. Ltd., B-1, 3, Block 3, Sector 17, Gurgaon, Haryana, India. It is valid only for the scope of activities mentioned in the certificate. The use of this accreditation mark indicates accreditation in respect of those activities covered by the accreditation certificate. Further clarification regarding the scope of this certificate and verification of the certificate is available through SAGACI or www.sagaciert.com.
Phone: 011-43692111, Email: info@sagaciert.com, Web: www.sagaciert.com

ISO 45001:2018



Scan this QR Code with smartphone to verify the certificate

CERTIFICATE OF REGISTRATION



This is to certify that:

HARMONY
(ALAA OSAMA MAHMOUD AND HIS PARTNERS)

PLOT 230, THIRD INDUSTRIAL ZONE,
6TH OF OCTOBER, GIZA - EGYPT

Additional Site:
1, NEW MARWA BUILDING, AHMED TAYSEER STREET,
NASR CITY, EGYPT

the management system of the above organisation has been assessed and found to comply with the requirements of the management system standards detailed below

STANDARD

ISO 45001:2018

Occupational Health & Safety Management System

Certification Scope

Manufacturing of All Steel and Construction and Supports for Pipes and Process Components Products and Sheet Metal Fabrication.
Design, Supply, Installation, Testing, Commissioning & After Sales Service of All Types of HVAC (Heating, Ventilation and Air-Conditioning) Systems.
Design, Supply, Installation, Testing & Commissioning of All Types of Fire-Fighting Systems.

Certification Calendar

Certificate Number IAS2612454470	Date of Registration 26-Dec-2022	Validity **Validity of this certificate is subject to successful and timely completion of the annual surveillance audit.
Client ID HA2086	Valid From 26-Dec-2022	Note¹ : Certification cycle expiry date of this certificate is - 25-Dec-2025.
Revision No. 00	Valid Until 25-Dec-2023	Note² : Surveillance 01 will be due in the month of Nov-2023 and Surveillance 02 will be due in the month of Nov-2024.

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Authorized Signatory





ACCREDITED
Management System
Certification Body
ISO/IEC

SAGACI CERTIFICATIONS PRIVATE LIMITED
www.sagaciert.com

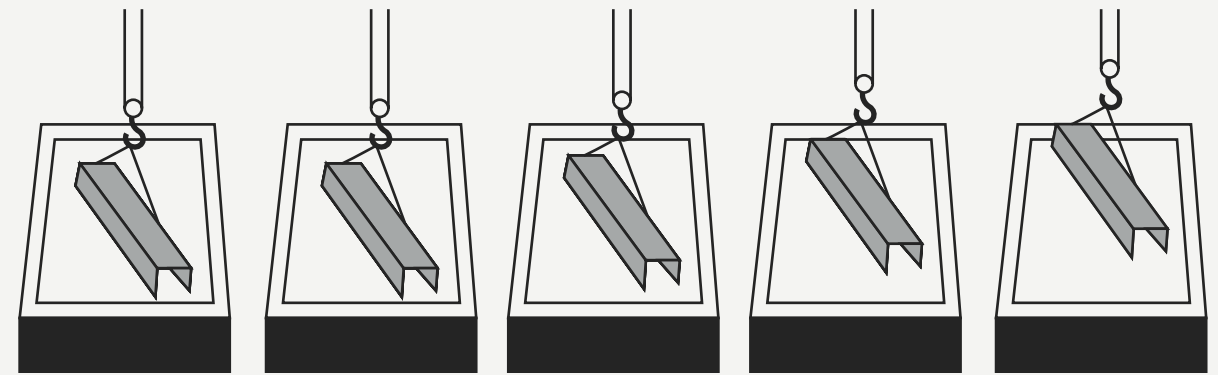
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Phone: 011-43692111, Email: info@sagaciert.com, Web: www.sagaciert.com

Galvanization Methodology.

Hot-dip galvanizing is the process of immersing iron or steel in a bath of molten zinc to produce a corrosion resistant, multi-layered coating of zinc-iron alloy and zinc metal. While the steel is immersed in the zinc, a metallurgical reaction occurs between the iron in the steel and the molten zinc. This reaction is a diffusion process, so the coating forms perpendicular to all surfaces creating a uniform thickness throughout the part.

FIRST STEP

SURFACE PREPARATION



Caustic Cleaning

Rinsing

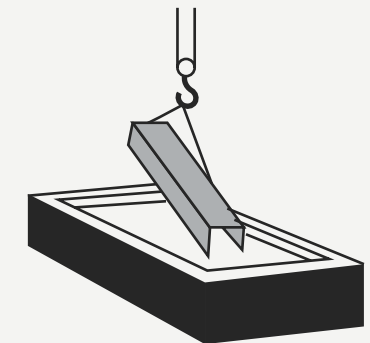
Pickling

Rinsing

Flux Solution

SECOND STEP

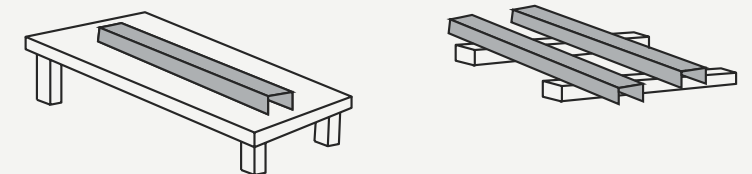
GALVANIZING Molten Zinc Bath



FINAL STEP

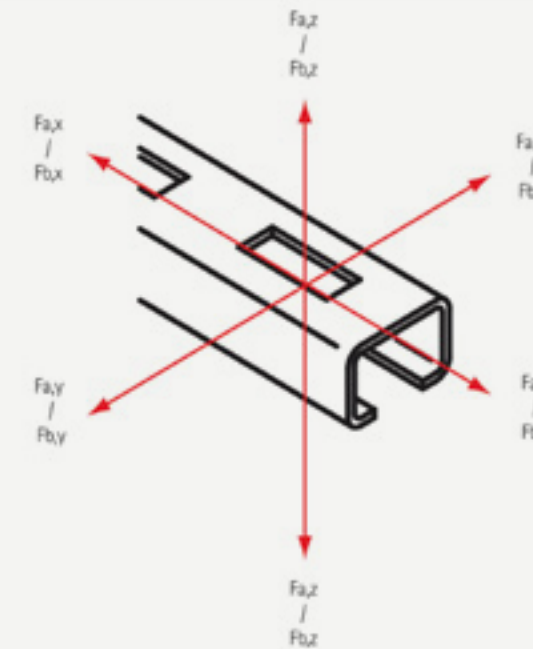
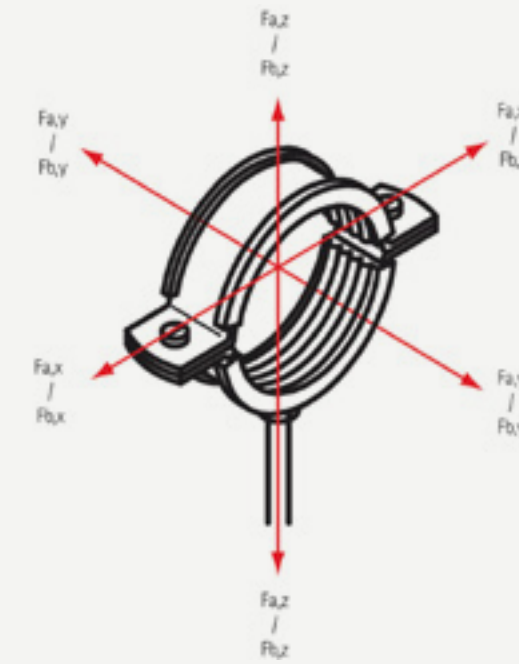
INSPECTION

Cooling and
Quality Assurance



Maximum Allowed Load.

From most of our products a maximum allowed load is included in the article tables. Stand values are determined by the measuring method described in the testing prescriptions RAL-GZ 655, which is set up by the 'Gütegemeinschaft Rohrbefestigung!'. If the product is provided with the 'RAL-Gütezeichen', the test results are checked by an independent testing institute.



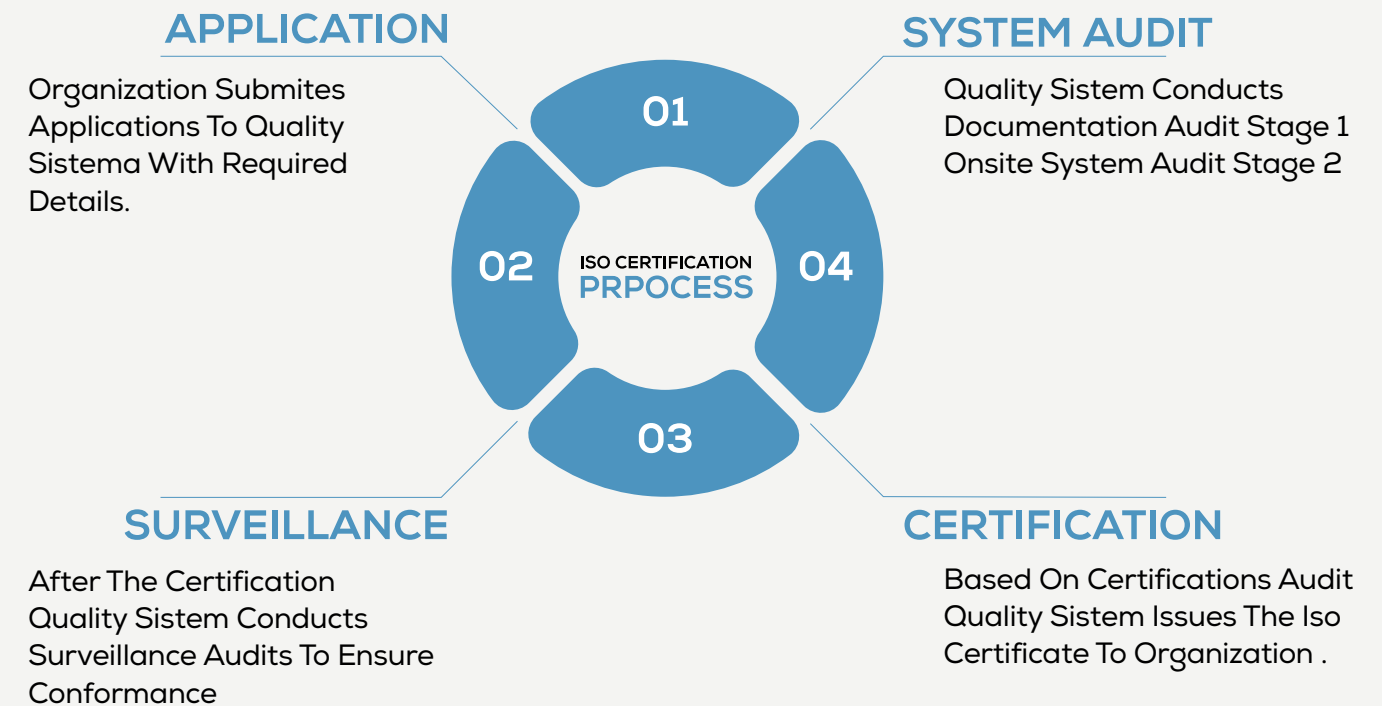
Force Directions (F) x, y, and z (at 20°C)

F_a = Maximum Allowe Load
 F_b = Breaking Load
 For plastic clamps the breaking load is included.

Commitment To Quality

Our commitment to quality is clearly revealed in the way we do our business; our processes, our close interaction with our clients as well By delivering superior products tailored to the specific construction needs, ambitious solutions, and an outstanding as the strict product inspection procedures.

To achieve this, we have implemented quality systems & processes that are continually being improved to satisfy our customer's needs



ELECTRICAL FIXATION SYSTEM

1.0

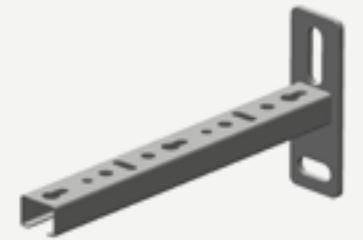
ELECTRICAL FIXATION SYSTEM

1.1

C-Channels

- 1.1.1 BIS RapidRail Cantiliver Arms(BUP1000)
- 1.1.2 BIS Rapid Raid
- 1.1.3 BIS RapidRail Wall Plates

PAGE 45



1.2

Nuts

- 1.2.1 BIS Double Slide Nut

PAGE 47



1.3

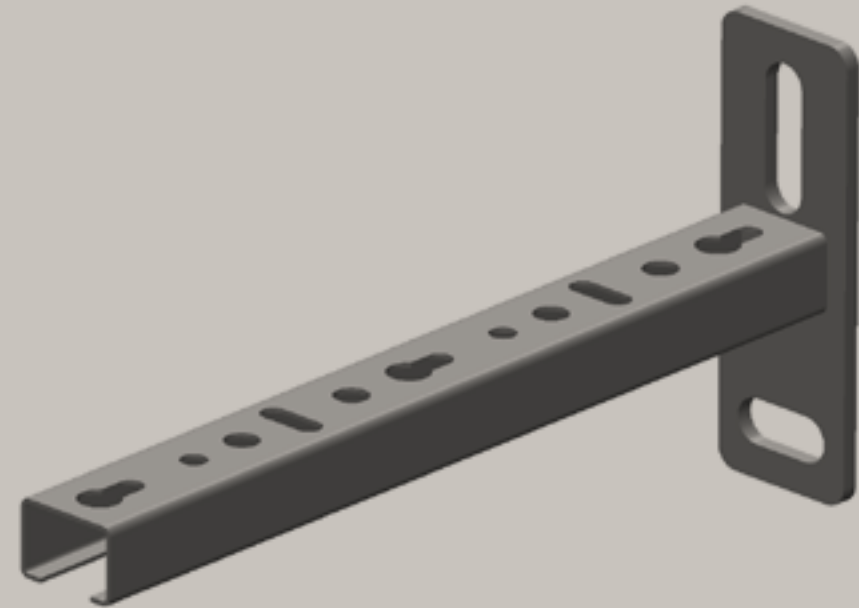
Strut Clamps

- 1.3.1 BIS Strut Clamp

PAGE 51



BIS RapidRail Cantiliver Arms(BUP1000)



FEATURES & BENEFITS

Wall plate with welded C-profile

Perfectly suitable for hanging to the ceiling

Slots at 90° to each other to simplify fixing

CO2 welded - Material: steel

Unique perforation on rail WM15, WM30 and rail WM35 allows for hanging on both sides

Allowed load (Fa, z) check loading tables

A continuous graduated centimeter scale on one side

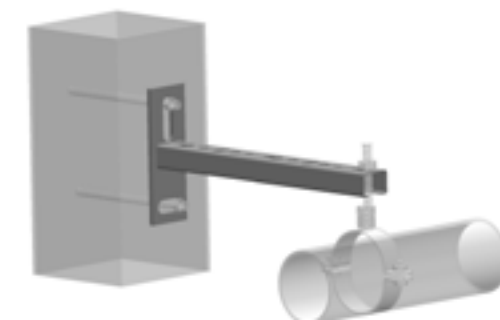
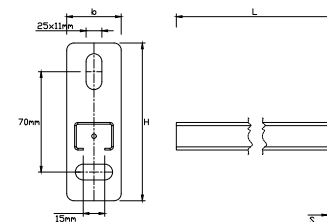
Product is part of the BIS Ultra Protect® 1000 system

Suitable for in- and outdoor applications Stands min. 1.000 hours salt spray test

(max. 5% red rust) according to ISO 9227

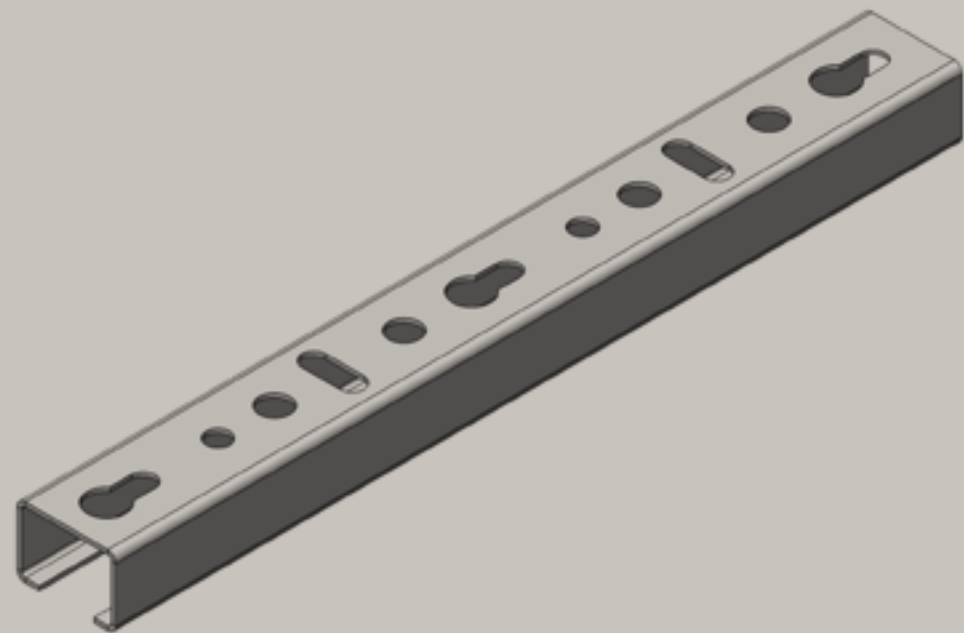


Part No.	L (mm)	H	From Rail b x s (mm)	Pack 1
660 3 015 150 mm	110	WMO-27 x 18	38 x 4	20
660 3 019 200 mm	110	WMO-27 x 18	38 x 4	60



Hot Dip Galvanized, Stainless Steel, and Electrical Option available on request.
With connection nut M8/M10, M10/M12 available on request.
With M6 Side Nuts available on request.

BIS RapidRail Fixing System



FEATURES & BENEFITS

C-profile for a quick and easy fixing

With continuous perforation (on request without perforation)

Dist. between rail end & first hole is equal

Unique perforation on rail WM15, WM30 and rail WM35 allows for hanging on both sides

A continuous graduated centimeter scale on one side

Material: steel 1.0242

Yield strength 240 N/mm²

Pre-galvanized

Information about max. allowed load (Fa, z) check loading tables.



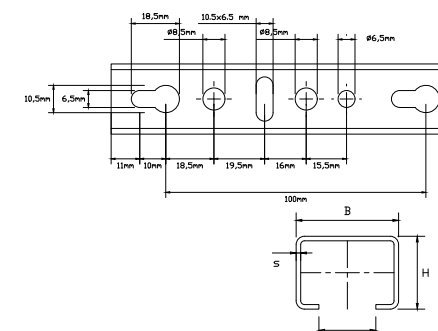
Part No.	Type	L	B	H	s	S	RAL	BndS	BndL
			(mm)	(mm)	(mm)	(mm)			
650 5 000WMO		2 m	27	18	1,20	15	RAL1	20	400
650 5 600WMO		6 m	27	18	1,20	15	RAL1	60	1,200

Type	Weight	Moment of Inertia cm ⁴			Section modulus cm ³
	(Kg/m)	ly	lz	Wy	Wz
WMO	0,57	0,28	0,91	0,30	0,67

Technical Details BIS Rapid Rail
System BIS Rapid Rail - Table of Rail Section Properties

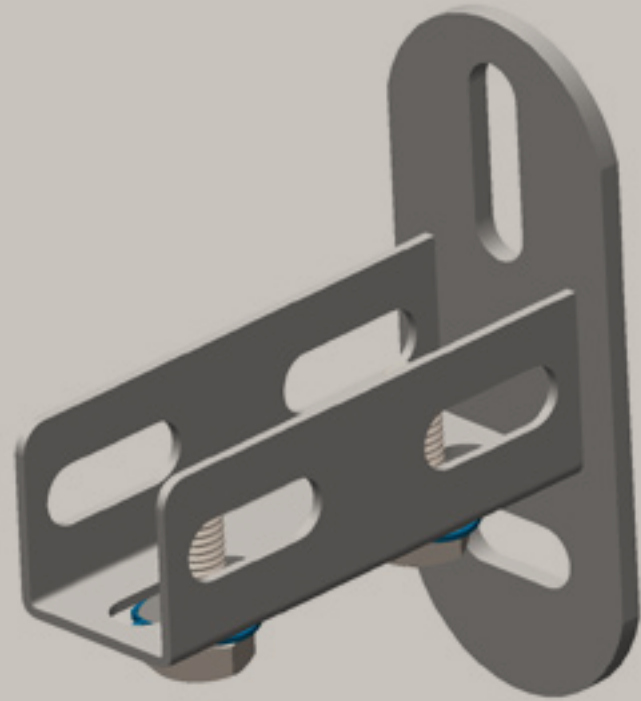
The Values of fixing Rail in Stainless Steel are higher than those mentioned above.
See Rail Load Tables for Safe Working Loads.

Perforation pattern for fixing to ceiling or Wall. Distance between Rail end and first hole is always equal.



Hot Dip Galvanized, Stainless Steel, and Electrical Option available on request.
With connection nut M8/M10, M10/M12 available on request.
With M6 Side Nuts available on request.

BIS RapidRail Wall Plates



FEATURES & BENEFITS

U-profile welded on wall plate

For wall fixing of rail

Rail can be fixed with slot downwards or sideways

Part No. 661 3 200: for WM0, 1, 15, 2, 30

Part No. 661 3 235: suitable for WM35

Zinc plated - CO2 welded

Slots at 90° to to simplify fixing

pre-assembled BIS RapidRail® Sliding

nut(s) for a quick fixing, & retains assembly in place before final tightening

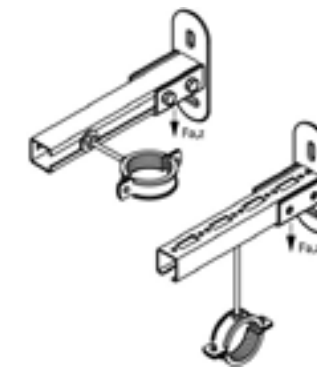
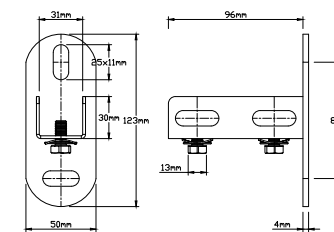
Material: metal parts made of steel

1.0332; spring(s) made of POM

(polyoxymethylene), green

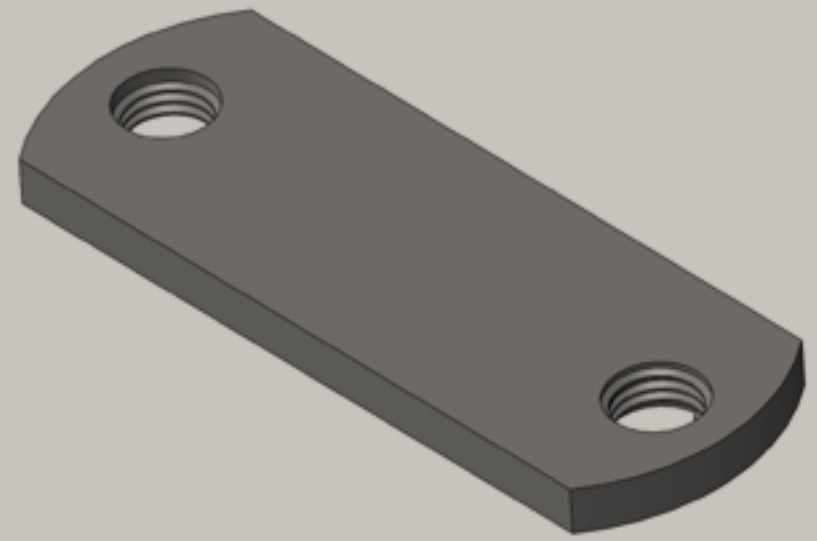
 **HARMONY**
SUPPLIER

Part No.	From Rail (mm)	T	Pack 1
661 3 200	WMO-30	15	25
661 3 235	WMO-35	15	25



Hot Dip Galvanized, Stainless Steel, and Electrical Option available on request.
With connection nut M8/M10, M10/M12 available on request.
With M6 Side Nuts available on request.

BIS Double Slide Nut



FEATURES & BENEFITS

Suitable for WMO, 1, 15, 2, 30, 35

Material: steel

Zinc plated

Tested for fire safety

Suitable for in- and outdoor applications

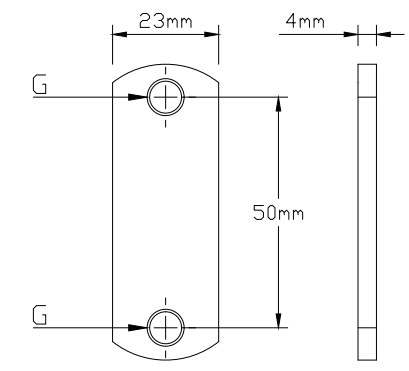
Stands min. 1.000 hours salt spray

Test (max. 5% red rust) according to

ISO 9227

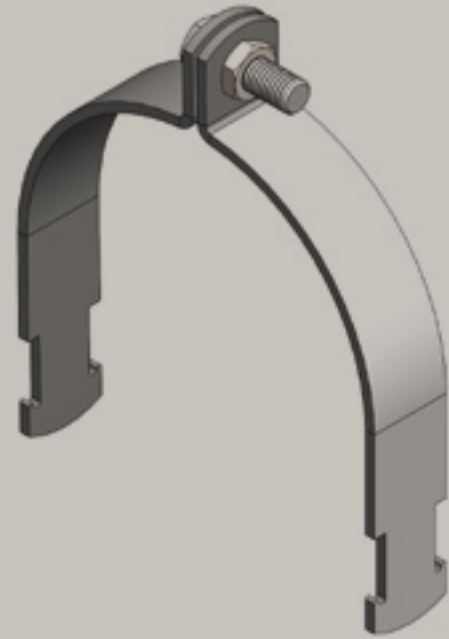


Part No.	G	From Rail	T (Nm)	Pack 1	Pack 2
6513 208 M8		WMO-35 1	5	50	250



Hot Dip Galvanized, Stainless Steel, and Electrical Option available on request.
 With connection nut M8/M10, M10/M12 available on request.
 With M6 Side Nuts available on request.

BIS Strut Clamps



FEATURES & BENEFITS

Two-part clamp

For direct fixing of pipes to Strut Rail

Pre-galvanized

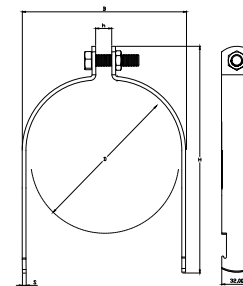
Both ends suitable for locating into

Strut Rail

Material: steel 1.0226

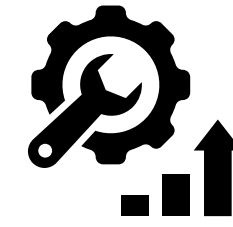
 **HARMONY**
SUPPLIER

Part No.	D (mm)	D (")	DN (mm)	B (mm)	H (mm)	h (mm)	s (mm)	SW1 (mm)	Pack1
200 5 010	9_10	-	-	13	47	5,0	1,5	10	100
200 5 012	10_12	1\8	6	15	49	5,0	1,5	10	100
200 5 014	12_14	1\4	8	17	51	5,0	1,5	10	100
200 5 016	14_16	-	-	19	53	5,0	1,5	10	100
200 5 018	16_18	3\8	10	21	55	7,5	1,5	10	100
200 5 022	20_22	1\2	15	25	58	10,0	1,5	10	100
200 5 026	22_26	-	-	29	62	10,0	1,5	10	100
200 5 030	26_30	3\4	20	33	67	10,0	1,5	10	100
200 5 035	30_35	1	25	38	72	10,0	1,5	10	100
200 5 040	35_40	-	-	43	77	10,0	1,5	10	100
200 5 045	40_45	1\4	32	48	82	10,0	1,5	10	100
200 5 050	45_50	1\2	40	54	88	10,0	2,0	13	100
200 5 055	50_55	-	-	59	93	10,0	2,0	13	100
200 5 060	55_60	-	-	64	98	10,0	2,0	13	100
200 5 065	60_65	2	50	69	103	10,0	2,0	13	100
200 5 070	65_70	-	-	74	108	10,0	2,0	13	100
200 5 075	70_75	-	-	79	113	10,0	2,0	13	50
200 5 080	75_80	2\2	65	84	118	10,0	2,0	13	50
200 5 085	80_85	-	-	89	123	10,0	2,0	13	50
200 5 090	85_90	3	80	94	128	10,0	2,0	13	50
200 5 095	90_95	-	-	99	133	10,0	2,0	13	50
200 5 100	95_100	-	-	104	138	10,0	2,0	13	50
200 5 105	100_105	-	-	110	148	15,0	2,5	17	50
200 5 110	105_110	-	-	115	153	15,0	2,5	17	50
200 5 120	110_120	4	100	125	163	15,0	2,5	17	50
200 5 130	120_130	-	-	135	173	15,0	2,5	17	25
200 5 140	130_140	5	125	145	183	15,0	2,5	17	25
200 5 150	140_150	-	-	155	193	15,0	2,5	17	25
200 5 160	150_160	-	-	166	204	15,0	3,0	17	25
200 5 170	160_170	6	150	176	214	15,0	3,0	17	25
200 5 200	190_200	-	-	206	244	15,0	3,0	17	25
200 5 225	215_225	0	8	200	231	269	15,0	3,0	17/25
200 5 250	240_250	-	-	256	294	15,0	3,0	17	25



Hot Dip Galvanized, Stainless Steel, and Electrical Option available on request.
With connection nut M8/M10, M10/M12 available on request.
With M6 Side Nuts available on request.

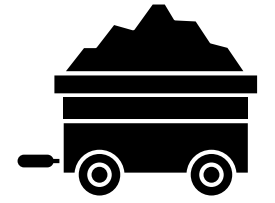
OUR PRODUCTION ARM



Leading
Manufacturer And
Fabricator



Region
Exposure



100%
Raw Material

0.5

Harmony Manufacturing is a leading manufacturer and fabricator of light steel construction products in the region, servicing the construction sector.

Products of Harmony Manufacturing are manufactured from quality raw material according to the relevant international standards to meet all kinds of construction projects requirements.



Health And Safty

The Factory Management regard the health and safety of the employees, clients and all others that may be affected by their operations to be of a major importance.

In support of this, the management promotes health and safety throughout the factory's operations and endeavor to engender a positive attitude in all employees towards the prevention of accidents and maintenance of healthy working arrangements.



The Factory satisfies the requirements of the Health, Safety and related legislation by setting out the responsibilities of all levels of staff and the arrangements for carrying out those responsibilities and in particular do what is reasonably practicable to:

1. Maintains safe & healthy working conditions.
2. Ensures that all facilities and equipment are safe and properly maintained.
3. Provides products that can be applied and used safely and without risk to health.
4. Provides and maintain working procedures, that are safe and without risk to health, throughout the its operations in respect of: The use, handling, storage, transports and disposal of materials and substances, The use of factory equipment , Potential emergency situations, including first aid & fire and escape of substances.
5. Ensure the competence of employees by keeping trained and up tp date with the latest in the industry both technically and in terms of safety.

Social Responsibility

Being socially responsible is a part of who we are and how we do our business. We aim to provide useful products and services, to provide jobs and development opportunities for our communities, and satisfaction through meaningful work.

We make a difference by acting on the values and principles of our societies and we inspire others to do at Harmony, we anticipate and reduce threats caused by environmental changes or natural disasters, and we are well adapted to significant social changes. We contribute to a more sustainable society by means of value and support to our consumers & our supply chains.



WE ARE KEEN TO IDENTIFY WAYS THEY CAN IMPROVE OUR IMPACTS ON THE PEOPLE AND PLACES WE WORK.

- Organizational governance: We promote accountability and transparency at all levels.
- Human care: We treat individuals with respect; and make efforts to help members of vulnerable groups.
- Labor practices: We provide just, safe and favorable conditions to workers
- Environment: At Harmony, we identify and improve environmental impacts of our operations, including the resource use of natural resources and waste disposal.

At Harmony, we are committed to continuous improvement ongoing learning, process review and innovative thinking that foster new initiatives; and better practices.

Our environmental programs evolve to meet today's changing needs while protecting resources for future generations.

CONTACT INFORMATION

www.harmony-egy.com
info@harmony-egy.com

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+2 0121 0 11 2633