



RUSPERT COATED SELF DRILLING SCREWS

With Bonded washer



**RAHJ
TRANSWORLD**
GENERAL TRADERS FZC

**An ISO 9001:2015
Certified Company**

www.rahjuae.com



SUPERIOR
CORROSION
RESISTANCE



PRECISE
SELF DRILLING
PERFORMANCE



STRONG &
RELIABLE
FASTENING



ENGINEERED
FOR GLOBAL
STANDARDS

About Us

We are a trusted provider of premium fastening and sealing solutions engineered for the construction, engineering and industrial sectors. Our comprehensive product portfolio includes high performance screws, bolts, rivets, sealants, tapes and installation accessories all manufactured in compliance with internationally recognized quality standards.

Designed to meet the demands of both large-scale infrastructure projects and specialized applications, our solutions deliver superior reliability, structural integrity and long-term performance. Beyond product supply, we offer technical expertise, application support and responsive service to ensure optimal results for our customers. Every product undergoes rigorous quality assurance and inspection processes to verify dimensional accuracy, material consistency and compliance with relevant industry specifications ensuring dependable performance in demanding operating environments.

Our Vision

To be a leading global provider of fastening and sealing solutions, recognized for innovation, quality and reliability. We aspire to empower the construction, engineering and industrial sectors with products that enhance safety, performance and durability while setting new benchmarks in technical excellence and customer satisfaction. Through continuous improvement, sustainable practices and strong partnerships. We aim to contribute to building resilient infrastructure and a stronger future for generations to come.

Our Mission

To provide precision-engineered fastening and sealing solutions that enhance the strength, reliability and longevity of every project we serve. By maintaining the highest standards of quality, compliance and service excellence, we aim to exceed customer expectations, foster long-term partnerships and support the development of safe, durable and high-performing infrastructure across industries.



Quality Assurance, Technical Support & Custom Solutions

At RAHJ TRANSWORLD, quality, technical expertise and customer-focused solutions form the foundation of everything we do. We are committed to deliver fastening, sealing and construction support solutions that meet the highest standards of performance, reliability and compliance. Every product is carefully sourced, manufactured and subjected to rigorous quality control procedures, including mechanical testing, dimensional verification and corrosion resistance evaluations. Our batch-wise inspection process, certified material traceability, advanced testing capabilities and adherence to international standards such as ISO, ASTM and DIN ensure consistent quality and dependable performance in demanding environments.

Beyond product supply, our experienced technical team provides comprehensive consultation and product guidance to support clients throughout every stage of their projects. From material selection and product specification to installation recommendations and compliance verification, we work closely with engineers, architects, contractors and project managers to optimize structural integrity, safety and cost efficiency. Our support includes pre- and post-sales assistance, technical documentation, engineering validation reports, training programs and project-specific consultation to ensure successful implementation and long-term performance. Recognizing that every project has unique requirements, we also offer custom sourcing and special-order solutions through our extensive global network of trusted manufacturers and suppliers. Whether sourcing non-standard fasteners, specialized materials, custom coatings, project-specific packaging or hard-to-find components, we provide tailored solutions that meet exact design and performance specifications. Our integrated procurement support, technical validation services and commitment to timely delivery enable clients to access specialized products with complete confidence and full quality assurance.

Key Highlights

- Strict adherence to ISO and ASTM standards
- Advanced testing and inspection facilities
- Consistent batch-wise quality verification
- Certified material traceability and documentation
- Continuous improvement through feedback and R&D
- Commitment to delivering defect-free products



PRODUCTS CATEGORY

1- Self Drilling Screws

Designed with an integrated drill point that allows them to drill, tap, and fasten in a single operation.



2- Blind Rivets

Strong, reliable fasteners designed for joining materials where only one side is accessible.



3- Saddle Washe

A specially designed washer that provides a secure, even seal around fasteners on curved or irregular surfaces.



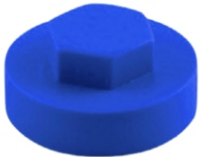
4- Shear Stud

A high-strength steel connector welded to structural beams to transfer loads between steel and concrete.



5- Screw Color Cap

Protective caps that snap over screw heads, finished appearance while preventing water ingress and corrosion.



6- Filler Block

A durable construction accessory used to fill gaps and provide support between panels, beams.



7- Butyl Tape

A high-performance sealing tape that provides a strong, waterproof, and airtight bond. Ideal for roofing, cladding.



8- Purlin Tape

A high-quality sealing tape applied on purlins to prevent water, dust, and air infiltration. It ensures a tight.



9- silicone sealant

A premium, flexible sealant designed for bonding and sealing in construction and industrial applications.



10- COLD ROOM ACCESSORIES

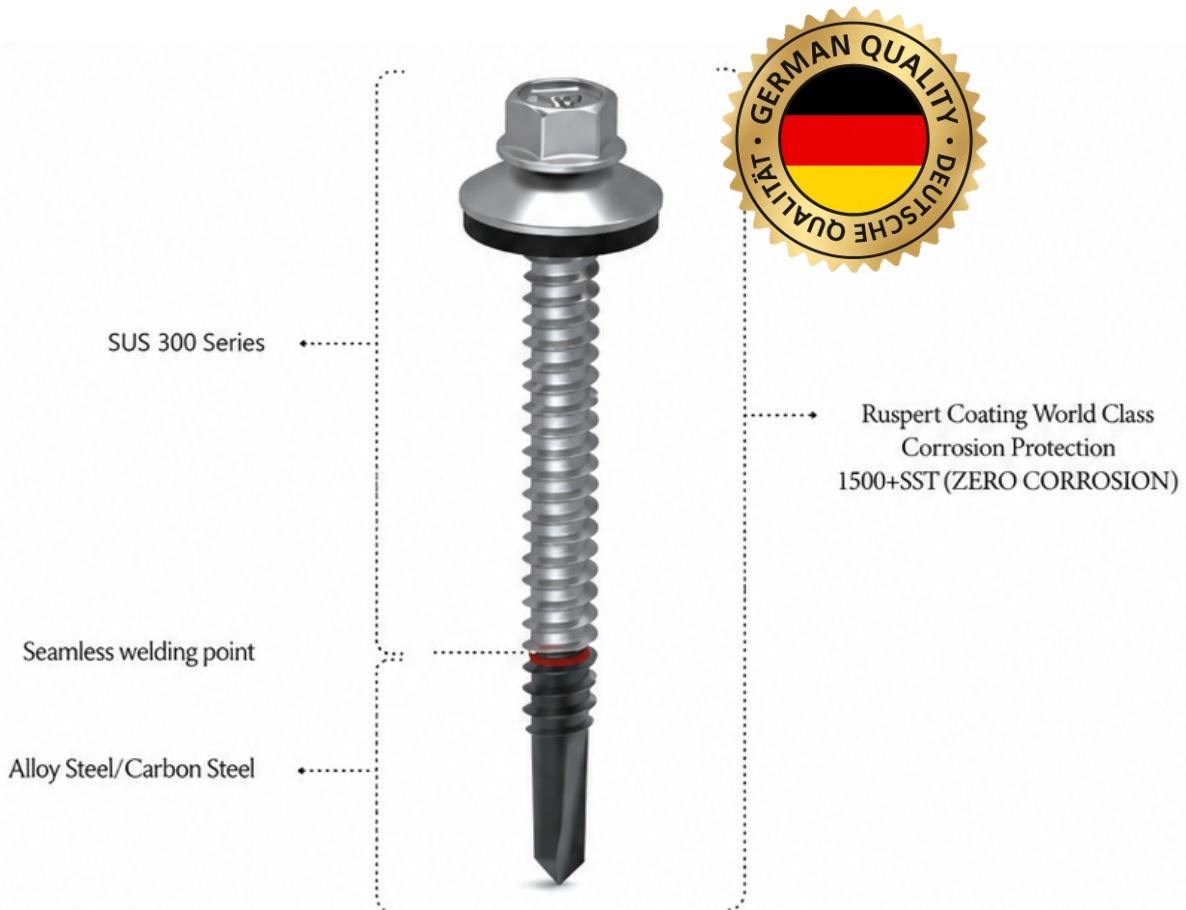


11- THREADED RODS & NUTS



BI METAL SCREW – CONCEPT

The two components have been joined by means of welding. The first component comprises a stainless steel head that will be exposed to air and a stainless steel shank that will bear the full stress after being fastened into materials. The second component is made of hardened carbon steel or alloy steel, and is designed for self-drilling and self-tapping purposes.



CLASSIFICATION	REQUIREMENTS OF CORROSION RESISTANCE
Class 1	General use in indoor application.AS2331.3.1 SST:72H
Class 2	General use in outdoor applications with low levels of pollution.AS2331.3.1 SST:240H.DIN50018 Kesternich test:5 Cycles
Class 3	Outdoor use in mild industrial or marine environment.AS2331.3.1 SST:1000H.DIN50018 Kesternich test:15 Cycles
Class 4	Outdoor use in severe marine environment.AS2331.3.1 SST:1500H.DIN50018 Kesternich test:25 Cycles
Class 5	Outdoor use in highly severe marine environment. The use of SUS 304/316 Bi-metal screws are highly recommended

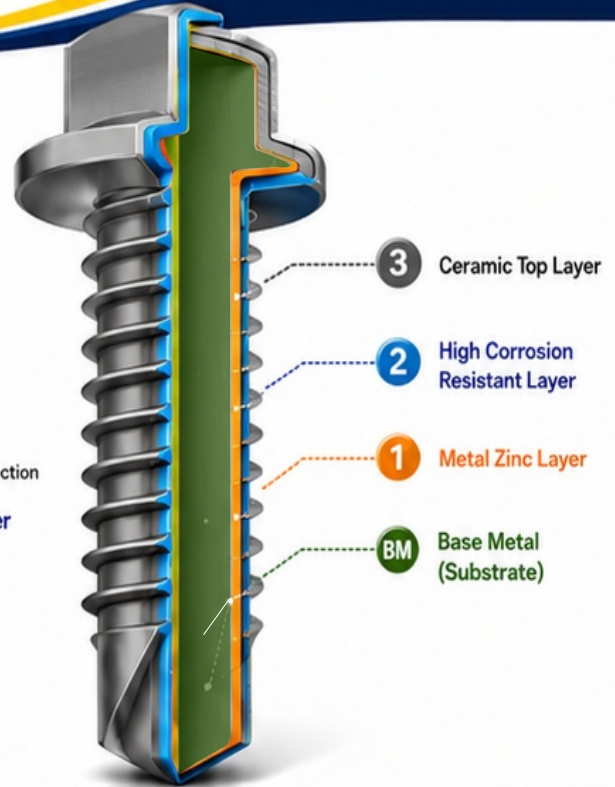
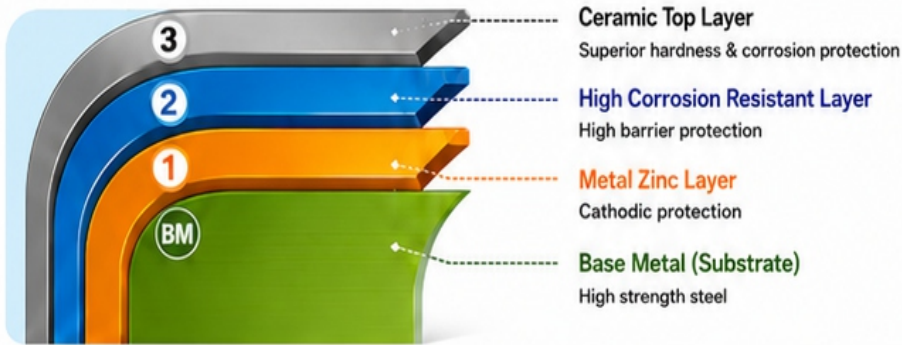


WHAT IS RUSPERT COAT?



COATING TECHNOLOGY

- ① RUSPERT® is a high-performance surface treatment technology for metallic fasteners, providing excellent corrosion resistance, chemical stability and decorative appearance through three layers of compound coating.



ENVIRONMENTAL FRIENDLY

Meets ROHS requirements. "M POWER" coating contains no hexavalent chromium and other hazardous substances.



LOW TEMPERATURE PROCESS

Processing temperature below 200°C, no impact on product mechanical properties.



HIGH CORROSION RESISTANCE

Salt spray test (neutral): up to 2000 hours.
Acid rain (5% acetic acid, 30 cycles): excellent resistance.



MULTIPLE COLORS

Various colors available to meet different decorative and identification requirements.



COMPOSITE COATING

Three layers of compound coating provide excellent barrier protection and long-lasting corrosion resistance.



EXCELLENT WORKABILITY

Excellent coating adhesion, low friction coefficient. No chipping, no peeling, and no hydrogen embrittlement.



ANTI-ELECTROLYSIS

Effectively prevents electrochemical corrosion between different metals and improves the overall service life of the product.



MP-BI-METAL (COMPOSITE SCREW) TECHNOLOGY

300 series stainless steel screws (SUS304 + SCM435 (304-A2)), and SUS316 series (316-A4) can be applied with M POWER coating for superior corrosion protection.

COMPOSITE COATED SCREWS CAN WITHSTAND VARIOUS COMPLEX ENVIRONMENTS



MARINE ENVIRONMENT

Salt mist / Sea water



HUMID ENVIRONMENT

High humidity / Moisture



ACID RAIN ENVIRONMENT

Acid rain / Chemical exposure



OUTDOOR EXPOSURE

UV rays / Weathering



Fasteners & Fixing Solutions

1 A - BI METAL SCREW

Durable and corrosion-resistant fasteners designed to securely attach roofing panels to structures. Engineered for strength and long-lasting performance, they ensure a weather-tight seal, reliable holding power and efficient installation in both residential and commercial roofing applications.



Feature	Reference
Material	SS304
Thread	BSD-14 TPI
Drilling Capacity	6 mm
Drill Point Length	9 mm
Coating	Ruspert

Features

Bimetal Self-Drilling Screw

These excellent corrosion-resistant screws are made from high-quality SS304 material, offering superior protection against corrosion—perfect for use in seashore and coastal environments. Bimetal screws are also available, featuring high-thread designs for secure sandwich panel fixing. Additionally, the unthreaded shank prevents simultaneous drilling and tapping, ensuring precise and efficient installation.

SELF DRILLING BI METAL SCREW - STAINLESS STEEL GRADE 304

High-performance fasteners designed to drill and secure metal sheets in a single operation. Made from corrosion-resistant Stainless Steel Grade 304, they provide exceptional strength, durability and long-lasting protection in roofing, cladding and industrial applications. Their precision-engineered threads ensure a tight, reliable grip, while the bimetal construction allows effortless drilling through hard substrates, reducing installation time and labor costs. These screws guarantee superior performance even in harsh environmental conditions.

MP Washer Head

MP Head Mark for Genuine Brand



08 mm

A durable screw head design that combines a hexagonal drive with an integrated washer for a secure, even load distribution. Ideal for metal and roofing applications, it ensures strong fastening, prevents pull-through and simplifies installation.

EPDM Bonded Washer

1mm SS304 + 3mm EPDM



19 mm

A high-quality washer with an EPDM rubber seal bonded to a metal base, providing superior waterproofing and resistance to weathering. Ideal for roofing and cladding fasteners, it ensures leak-proof, durable and secure installations.

Drill Point

Carbon steel drill point



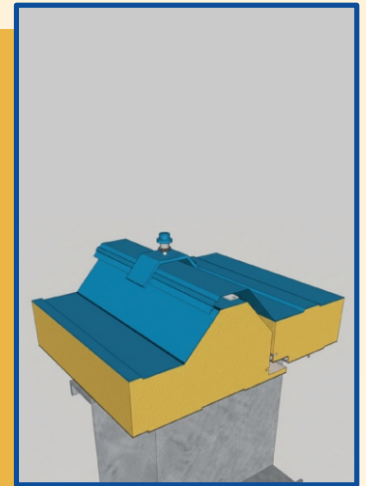
09 mm

A precision-engineered tip designed to penetrate metal, wood, or other substrates effortlessly, eliminating the need for pre-drilling. Ensures fast, accurate and secure fastening while reducing installation time and effort. Ensures quick and effortless installation.

VARIETIES OF BIMETAL SELF DRILLING SCREWS

Available Sizes

A premium line of fasteners combining hardened carbon steel drill points with stainless steel bodies for superior performance. Designed for efficient drilling and fastening in a single step, they deliver excellent corrosion resistance, high strength and long-lasting reliability—ideal for roofing, cladding and demanding structural applications. Available in various sizes, thread types, these screws are engineered to suit different fixing requirements such as steel thickness, clamping range and environmental conditions.



BIMETAL SELF DRILLING SCREW FOR CLADDING SOLUTION

Single Thread and Double Thread



Specially designed for fixing sandwich panels, these screws feature a high-thread design for strong grip in outer sheets and a partial thread with unthreaded shank to prevent simultaneous drilling and tapping.

Made with a hardened carbon steel point and stainless steel body, These Screws are engineered to ensure precise alignment of sandwich panels without damaging the outer sheet, delivering a clean and secure finish. The EPDM bonded washer provides reliable weather sealing, preventing leaks and enhancing durability in roofing and cladding systems.

Product	Diameter	Length	Coating	Drill Capacity	Drill Point	Thread	Washer Dia
SS SDS 5.5 * 25	5.5 mm (#12)	25 mm	Ruspert	6 mm	#3	Single Thread	19mm
SS SDS 5.5 * 40	5.5 mm (#12)	40 mm	Ruspert	6 mm	#3	Single Thread	19mm
SS SDS 5.5 * 50	5.5 mm (#12)	50 mm	Ruspert	6 mm	#3	Single Thread	19mm
SS SDS 5.5 * 75	5.5 mm (#12)	75 mm	Ruspert	6 mm	#3	Single Thread	19mm
SS SDS 5.5/ 6.3 * 100	5.5 mm (#12)	100 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5/ 6.3 * 115	5.5 mm (#12)	115 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5 6.3 * 130	5.5 mm (#12)	130 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5/ 6.3 * 150	5.5 mm (#12)	150 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5/ 6.3 * 175	5.5 mm (#12)	175 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5/ 6.3 * 200	5.5 mm (#12)	200 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5 6.3 * 225	5.5 mm (#12)	225 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5 6.3 * 250	5.5 mm (#12)	250 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5 6.3 * 275	5.5 mm (#12)	275 mm	Ruspert	6 mm	#3	Double Thread	19mm
SS SDS 5.5/ 6.3 * 300	5.5 mm (#12)	300 mm	Ruspert	6 mm	#3	Double Thread	19mm

1 B - Self Drilling Screw

Strong, durable fasteners specially designed for securing roofing sheets to metal or timber structures. Made from high-quality steel with protective coatings, they provide excellent corrosion resistance and longlasting performance in all weather conditions.



CARBON STEEL WITH RUSPERT COATED

Carbon steel fasteners with Ruspert coating offer exceptional corrosion resistance and surface durability. The multi-layer coating system-consisting of a ceramic topcoat, metallic zinc layer and chemical passivation film — provides superior protection against rust, humidity, salt spray and harsh environmental exposure. This makes them ideal for outdoor, marine and industrial applications where long-term performance and appearance are critical. Ruspert-coated fasteners also ensure excellent adhesion, scratch resistance and torque stability, enhancing both functionality and lifespan.



08 mm

MP Washer Head

MPHead Mark for Genuine Brand

A durable screw head design that combines a hexagonal drive with an integrated washer for a secure, even load distribution. Ideal for metal and roofing applications.



19 mm

EPDM Bonded Washer

1mm CS + 3mm EPDM

A high-quality washer with an EPDM rubber seal bonded to a metal base, providing superior waterproofing and resistance to weathering. It ensures leak-proof, durable, and secure installations.



09 mm

Drill Point

Carbon steel drill point

A precision-engineered tip designed to penetrate metal, wood, or other substrates effortlessly, eliminating the need for pre-drilling.

Features

Carbon Steel Self-Drilling Screw

Heavy-duty fasteners manufactured from high-strength carbon steel, designed to drill and fasten in a single operation without pre-drilling. With protective coatings such as Ruspert or galvanization, they deliver excellent corrosion resistance, durability and reliable performance. Ideal for roofing, cladding, steel structures and general construction.

Feature	Reference
Material	CS 1022
Thread	BSD-14 TPI
Drilling Capacity	6 mm
Drill Point Length	9 mm
Coating	Ruspert

VARIETIES OF CARBON STEEL SELF DRILLING SCREWS

Available Sizes

A premium line of fasteners hardened carbon steel drill points steel bodies for superior performance. Designed for efficient drilling and fastening in a single step, they deliver excellent corrosion resistance, high strength and long-lasting reliability—ideal for roofing, cladding and demanding structural applications. various sizes and thread types.



CARBON STEEL SELF DRILLING SCREW FOR CLADDING SOLUTION

Single Thread and Double Thread

Engineered for sandwich panel and roofing applications, these screws combine a high-thread design for strong grip on outer sheets with a partial thread and unthreaded shank to prevent simultaneous drilling and tapping.

Manufactured from high-strength carbon steel with Ruspert or galvanized coating, they offer excellent corrosion resistance, durability and efficient installation. Ideal for industrial, commercial and structural projects, ensuring secure fastening, weather protection and long-lasting performance.

Product	Diameter	Length	Coating	Drill Capacity	Drill Point	Thread	Washer Dia
CS 4.8 X 19	4.8 mm (#10)	19 mm	Ruspert	1.5 mm	#3	Full	16 mm
CS 5.5 X 38	5.5 mm (#10)	19 mm	Ruspert	12 mm	#3	Full	16 mm
CS SDS 5.5 X 25	5.5 mm (#12)	25 mm	Ruspert	6 mm	#3	Full	19 mm
CS SDS 5.5 X 40	5.5 mm (#12)	40 mm	Ruspert	6 mm	#3	Full	19 mm
CS SDS 5.5 X 50	5.5 mm (#12)	50 mm	Ruspert	6 mm	#3	Full	19 mm
CS SDS 5.5 X 75	5.5 mm (#12)	75 mm	Ruspert	6 mm	#3	Full	19 mm
CS SDS 5.5/6.3 X 100	5.5 mm (#12)	100 mm	Ruspert	6 mm	#3	Full	19 mm
CS SDS 5.5/6.3 X 115	5.5 mm (#12)	115 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 130	5.5 mm (#12)	130 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 150	5.5 mm (#12)	150 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 175	5.5 mm (#12)	175 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 200	5.5 mm (#12)	200 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 225	5.5 mm (#12)	225 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 250	5.5 mm (#12)	250 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 275	5.5 mm (#12)	275 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 300	5.5 mm (#12)	300 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm

1 C - Self Drilling Screw

High-performance fasteners designed for secure and reliable attachment of roofing and cladding panels. Made from durable carbon steel with protective coatings, they offer excellent corrosion resistance and long-lasting durability.



Stainless Steel “Grade 410” with Ruspert Coated

High-strength fasteners made from Stainless Steel Grade 410 offering excellent corrosion resistance and durability. Designed to drill and fasten in a single operation, these screws provide secure, long-lasting fastening in roofing, cladding and structural applications. Ideal for industrial, commercial and coastal environments, they combine precision, efficiency and reliable performance even under harsh conditions. Available in various head types and sizes, these screws are suitable for diverse construction requirements.

MP Washer Head

MP Head Mark for Genuine Brand

A durable screw head design that combines a hexagonal drive with an integrated washer for a secure, even load distribution. Ideal for metal and roofing applications.



08 mm

EPDM Bonded Washer

1mm SS + 3mm EPDM

A high-quality washer with an EPDM rubber seal bonded to a metal base, providing superior waterproofing and resistance to weathering.



19 mm

Drill Point

Carbon steel drill point

A precision-engineered tip designed to penetrate metal, wood, or other substrates effortlessly, eliminating the need for pre-drilling. Ensures fast, accurate and secure fastening while reducing installation time and effort.



09 mm

Features

SS 410 Self-Drilling Screw

offering excellent corrosion resistance and long-lasting durability. Its self-drilling tip allows installation without pre-drilling, while the partial thread with unthreaded shank prevents simultaneous drilling and tapping. Equipped with an EPDM bonded washer, it ensures a secure, leak-proof seal. Available in various sizes and head types

Feature	Reference
Material	SS410
Thread	BSD-14 TPI
Drilling Capacity	6 mm
Drill Point Length	9 mm
Coating	Ruspert

RANGE OF SS410 SELF DRILLING SCREWS

Available

A premium line of fasteners made from Stainless Steel Grade 410, offering superior corrosion resistance, strength and durability. Designed for roofing, cladding and structural applications, these screws feature self-drilling tips for efficient installation without pre-drilling. With options in various sizes, head types and thread designs, including partial and highthread variants, they ensure secure fastening, leak-proof sealing with EPDM bonded washers and long-lasting performance even in harsh environments.



STAINLESS STEEL GRADE 410 SELF DRILLING SCREW FOR CLADDING SOLUTION

Single Thread and Double Thread

Specifically engineered for sandwich panel applications, these screws combine a high-thread design for strong grip on outer sheets with a partial thread and unthreaded shank to prevent simultaneous drilling and tapping.

Made from Stainless Steel Grade 410, they provide excellent corrosion resistance, durability and long-lasting performance. Equipped with EPDM bonded washers, they ensure a secure, leakproof fastening, making them ideal for roofing, cladding and industrial projects in harsh environments.

Product	Diameter	Length	Coating	Drill Capacity	Drill Point	Thread	Washer Dia
CS SDS 6.3 X 25	6.3 mm (#14)	25 mm	Ruspert	1.5 mm	#3	Full	16 mm
CS SDS 6.3 X 40	6.3 mm (#14)	40 mm	Ruspert	12 mm	#3	Full	16 mm
CS SDS 6.3 X 50	6.3 mm (#14)	50 mm	Ruspert	6 mm	#3	Full	19 mm
CS SDS 6.3 X 75	6.3 mm (#14)	75 mm	Ruspert	6 mm	#3	Full	19 mm
CS SDS 5.5/6.3 X 100	6.3 mm (#14)	100 mm	Ruspert	6 mm	#3	Full	19 mm
CS SDS 5.5/6.3 X 115	6.3 mm (#14)	115 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 130	6.3 mm (#14)	130 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 150	6.3 mm (#14)	150 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 175	6.3 mm (#14)	175 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 200	6.3 mm (#14)	200 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 225	6.3 mm (#14)	225 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 250	6.3 mm (#14)	250 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 275	6.3 mm (#14)	275 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm
CS SDS 5.5/6.3 X 300	6.3 mm (#14)	300 mm	Ruspert	6 mm	#3	Hi-Thread	19 mm

2 - BLIND RIVETS

2A



Feature	Reference
Head	Plain/Flat
Thread	None
Diameter	M8 - M36
Length	N/A
Material	Mild Steel

Feature	Reference
Type	Closed End
Rivet Material	Al-Mg5
Mandrel Material	Stainless Steel SS 304
Rivet Diameter, mm	3.2, 4.0, 4.8
Length, mm	6 - 22

Aluminum-SS Mandrel

Closed End Blind Rivet

Aluminum body with stainless steel mandrel rivets combine lightweight strength with superior corrosion resistance. These closed-end rivets prevent leakage and contamination, making them ideal for applications requiring airtight or watertight sealing. They deliver strong, vibration-resistant fastening and are widely used in automotive, marine and HVAC industries.

2B



2A

D, mm	HD, mm	L, mm	GL, mm	Tensile, N	Shear, N
3.2	6	11	5.1 - 7.0	480	450
4.0	8	13	6.5 - 8.5	800	900
4.8	9.5	11.5	5.0 - 7.0	1100	900
4.8	9.5	14	7.1 - 9.0	1100	900
4.8	9.5	16	9.1 - 11.0	1100	900

2B

D, mm	HD, mm	L, mm	GL, mm	Tensile, N	Shear, N
3.2	6	11	5.1 - 7.0	1250	1050
4.0	8	13	6.5 - 8.5	2250	1650
4.8	9.5	11.5	5.0 - 7.0	3050	2250
4.8	9.5	14	7.1 - 9.0	3050	2250
4.8	9.5	16	9.1 - 11.0	3050	2250

2C

D, mm	HD, mm	L, mm	GL, mm	Tensile, N	Shear, N
4.1	8.9	25.1	6.4 - 12.7	1050	1550
5.2	11.6	17.5	1.3 - 4.7	2100	3200
5.2	11.6	19.1	2.7 - 6.4	2100	3200
5.2	11.6	22.2	4.7 - 9.5	2100	3200
5.2	11.6	25.4	7.9 - 12.7	2100	3200
5.2	11.6	28.6	11.1 - 15.9	2100	3200
6.3	14.0	26.5	6.4 - 12.7	3200	5000

BULB-TITE RIVET - 2C

Tri Fold Rivet - Use suitable riveting tool

Bulb-Tite Rivets, also known as Tri-Fold Rivets, are designed for high-strength fastening in soft, thin, or brittle materials such as plastics, composites and thin sheet metals. When installed using a suitable riveting tool, the rivet body splits into three folds (or petals), creating a large bearing surface that distributes the load evenly and prevents material damage. These rivets offer excellent vibration resistance, watertight sealing and high pull-out strength, making them ideal for roofing, cladding, automotive and construction applications.

Feature	Reference
Type	Closed End
Rivet Material	Al-Mg5
Mandrel Material	SS 304
Rivet Diameter, mm	3.2, 4.0, 4.8
Length, mm	6 - 22



3



- 1 - 1 mm Aluminum formed to corrugated profile shape.
- 2 - 2 mm Vulcanized EPDM bonded to Aluminum.
- 3 - Reinforcing Ribs prevents bending.
- 4 - EPDM Hole Dia. slightly less than main dia. for sealing.
- 5 - Powder coated in various RAL Colors to match roof color.
- 6 - Brand Marking for Genuine Product.

SADDLE WASHER

Saddle Washers are designed to perfectly match the profile of corrugated and trapezoidal sheets, ensuring secure seating for roofing and cladding screws. Their contoured shape provides stability, uniform load distribution and enhanced sealing when used with EPDM washers. Made from durable materials, they deliver long-lasting protection against leaks, vibrations and structural stress in roofing and construction applications. Available in aluminum, galvanized and other durable materials, Saddle Washers are lightweight yet strong, offering corrosion resistance and dependable performance in harsh weather conditions. Easy to install and compatible with various fasteners, they are widely used in roofing, cladding and industrial sheet fixing, ensuring a professional finish and extended service life for every project.

SADDLE WASHER - ALUMINUM OR SS BONDED TO EPDM

Available in a wide range of sizes and head types, these Washers are designed to meet diverse construction requirements. Trusted for strength, reliability, and long-term performance, they are an ideal choice for both commercial and coastal applications, ensuring structural integrity and a weathertight seal. In addition, the EPDM bonded washer enhances sealing capability, preventing water ingress and protecting against extreme weather conditions.



Saddle Washer

Saddle Washers are specially designed to provide a secure and stable seating for roofing and cladding screws on corrugated or profiled sheets. Their contoured shape ensures a tight fit over curved surfaces, preventing movement and enhancing load distribution.



Aluminum Saddle

Powder Colored

Aluminum Saddles are designed to provide strong support and secure fastening for screws used on profiled or corrugated sheets. Made from high-quality aluminum, they are lightweight, corrosion-resistant and durable, ensuring reliable performance in roofing.



EPDM

Vulcanized Grey EPDM

high-performance synthetic rubber material known for its exceptional weather, UV and ozone resistance. Its vulcanized formulation ensures enhanced durability, elasticity and long service life, even under extreme environmental conditions.

4 - SHEAR STUD

SHEAR STUD OR SHEAR CONNECTOR

Shear Force transfer between the steel section and concrete slab

Shear Studs or Shear Connectors are essential components in composite construction, designed to create a strong, permanent bond between steel beams and concrete slabs. They efficiently transfer shear forces, allowing both materials to act together as a single composite unit, which significantly enhances the load-bearing capacity and overall structural performance.



Product Specification

Material and Mechanical Properties

This section provides detailed information on the material composition, mechanical characteristics and performance standards of the products. It includes properties such as tensile strength, hardness, corrosion resistance and load-bearing capacity, ensuring that each component meets industry and construction requirements. Understanding these specifications helps in selecting the right fasteners, connectors and accessories for specific applications, guaranteeing structural integrity, durability and reliable performance in both standard and demanding environments.



Grade	% Carbon	% Manganese	% Phosphorus, max	% Sulfur, max
Grade 1010	0.08-0.13	0.30-0.60	0.040	0.050
Grade 1011	0.08-0.13	0.60-0.90	0.040	0.050
Grade 1012	0.10-0.15	0.30-0.60	0.040	0.050
Grade 1013	0.11-0.16	0.50-0.80	0.040	0.050
Grade 1015	0.13-0.18	0.30-0.60	0.040	0.050
Grade 1016	0.13-0.18	0.60-0.90	0.040	0.050
Grade 1017	0.15-0.20	0.30-0.60	0.040	0.050
Grade 1018	0.15-0.20	0.60-0.90	0.040	0.050
Grade 1019	0.15-0.20	0.70-1.00	0.040	0.050
Grade 1020	0.18-0.23	0.30-0.60	0.040	0.050

Standard	Tensile Strength, N/mm2	Yield Strength, N/mm2	Elongation, %	Area Reduction, %
AWS D1.1 Type A	420 Min	340 Min	17 Min	50 Min
AWS D1.1 Type B	450 Min	350 Min	15 Min	50 Min
AWS D1.1 Type C	552 Min	485 Min	-	-
AWS D1.5 Type A	380 Min	-	17 Min	50 Min
AWS D1.5 Type B	415 Min	345 Min	20 Min	50 Min
ISO 13918	450 Min	350 Min	15 Min	-

5 - SCREW COLOR CAPS

Screw Color Caps are engineered to provide a clean, protective finish for exposed screw heads in roofing and cladding applications. Manufactured from high-quality, weather-resistant materials, they help prevent moisture ingress, corrosion and UV-related deterioration while ensuring a consistent color match with roofing panels.

COLOR CAPS

Low-Density Polyethylene (LDPE) Colored Caps

Our LDPE Colored Caps are precision-manufactured to deliver reliable protection and an aesthetically refined finish for screw heads used in roofing and cladding systems. Designed to withstand harsh environmental conditions, they offer excellent resistance to moisture, corrosion and UV exposure while maintaining color consistency over time.

Lightweight, durable and easy to install, these caps are compatible with a wide range of standard roofing and cladding fasteners. Available in multiple colors and sizes.



Key Features

- Durable LDPE construction
- UV and weather resistance
- Protection against moisture and corrosion
- Precise color matching for roofing panels
- Quick and easy installation
- Available in various colors and sizes
- Suitable for residential, commercial and industrial projects



6 - FILLER BLOCK

FILLER BLOCK OR FOAM CLOSURE

Closed cell and Cross-Linked Low Density Polyethylene Foam (LDPE)

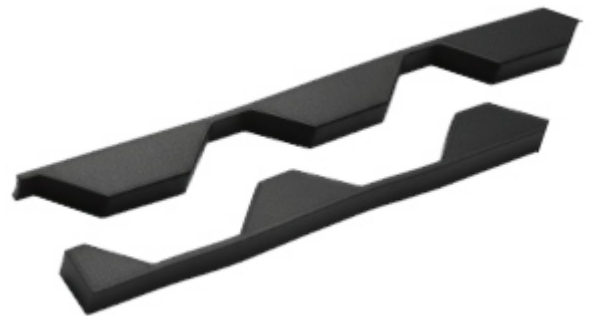
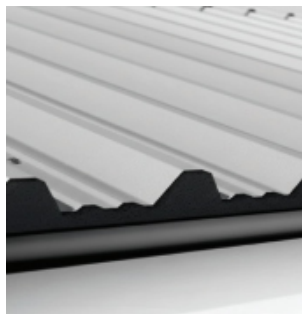
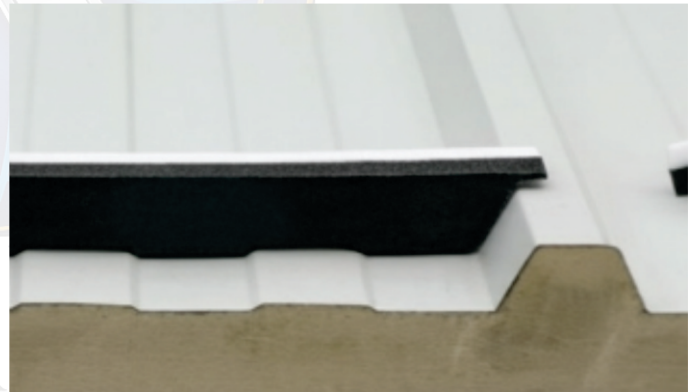
Made from closed-cell, cross-linked low-density polyethylene (LDPE) foam, these blocks provide excellent compression recovery, durability and weather resistance. They are designed to fill gaps, seal joints and prevent air and water infiltration in roofing and cladding systems. The foam's flexibility and resilience allow it to conform perfectly to panel profiles, ensuring a tight, uniform seal. Ideal for residential, commercial and industrial applications, they enhance insulation, structural stability, and overall performance of the installation. These foam closures are easy to install, requiring no additional cutting and maintain their shape and sealing performance over time.

PROFILE CUTTING & APPLICATION

Press cut to form exact profile shape

Filler Blocks are designed to fill gaps and spaces in roofing, cladding, and paneling systems, providing a tight, secure fit. Press-cut to match the exact profile shape of the sheets, they ensure uniform contact and proper sealing. Made from durable, weather-resistant materials, Filler Blocks help prevent air and water infiltration, improve insulation and enhance the overall structural stability of the installation. They are easy to install, fitting precisely into corrugations or panel profiles without the need for additional cutting or modification.

Feature	Reference
Low Density	35 kg/m ³
Cross-linked	0.35 mm cell size
Age Resistance	Excellent
Weather Sealing	Excellent
Flexibility	Excellent
Forming or Cutting	Easy



7 - BUTYL TAPE

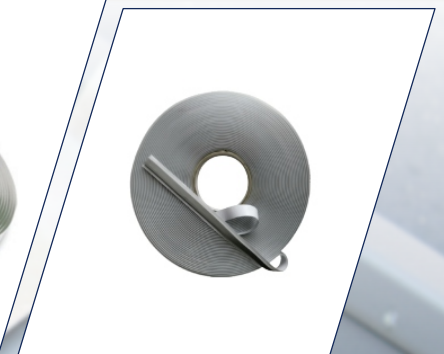
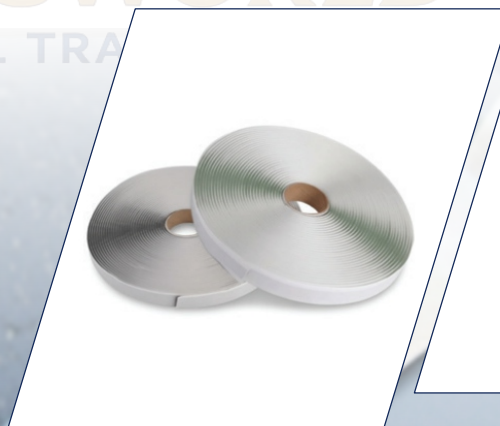
BUTYL SEALANT TAPE

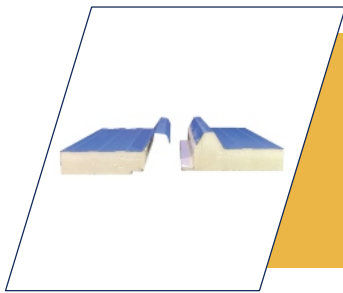
Butyl Sealant Tape with easy peeling silicon backed release paper.

Butyl Sealant Tape is a high-performance sealing solution made from flexible butyl rubber designed to provide strong adhesion and longlasting waterproofing. Featuring an easy-peeling silicon backed release paper, it ensures quick, clean and hassle-free application. Ideal for roofing, cladding, skylights and construction joints, this tape offers excellent air-tight and water-tight sealing, UV resistance and durability across a wide range of temperatures and surfaces. Its non-hardening and flexible composition allows it to adapt to surface movements and irregularities, maintaining a secure seal over time. Resistant to aging, chemicals and extreme weather conditions, Butyl Sealant Tape is widely used in industrial, residential, and commercial construction projects.

Feature	Reference
Material	Polyisobutylene (PIB)
Flat Shape	2.4 mm X 9.5 mm X 19 m
U-Shape	5.0 mm X 22 mm X 9 m
Curing or Hardening	None
Color	Grey

Feature	Reference
UV Resistant	Excellent
Water Sealing	Excellent
Adhesion	Excellent
Flexibility	Excellent
Age Resistance	Excellent





General Installation

General placement of butyl Tape

For best performance, Butyl Sealant Tape should be applied on clean, dry and dust-free surfaces to ensure maximum adhesion. The tape is generally placed along joints, overlaps, or seams where waterproofing and sealing are required.



UV Resistant

Ideal for Outdoor application

Designed to withstand prolonged exposure to sunlight, these materials resist fading, cracking, and degradation caused by UV radiation. Perfect for outdoor applications including roofing, cladding, skylights, external fixtures, their durability for long term performance.



Salient Features

Excellent feature for purpose

These products are designed with key attributes that enhance performance, durability and efficiency in their intended applications. Features such as corrosion resistance, weatherproofing, ease of installation and strong adhesion ensure reliable functionality

BUTYL SEALANT TAPE - APPLICATION

Construction, Automobiles, Steel

Butyl Sealant Tape is widely used across multiple industries for its versatile sealing and bonding properties. In construction, it is applied for roofing, cladding, skylights, HVAC systems and joint sealing. In the automobile industry, it is used for weatherproofing, vibration dampening and sealing body panels. In steel structures, it provides reliable air-tight and watertight sealing, protecting against corrosion and ensuring long-lasting durability. Its easy application and strong adhesion to a variety of surfaces, including metal, glass, plastic and concrete, make it a preferred choice for professionals. The tape remains flexible without cracking or hardening, ensuring consistent performance even in extreme temperatures.

Application

Roofing Construction

Cooling and Air-Conditioning

Automobile Construction

Ship Building

Container Building

Facade Construction

Glazing

Sanitary

Electrical Installation

Plumbing

Furniture and Internal Fittings



8 - PURLIN TAPE

Purlin Tape or Duct Tape

Cloth duct tape with aggressive adhesive

Purlin Tape or Duct Tape is a durable cloth-based tape with strong adhesive properties, widely used in roofing applications for sealing overlaps, joints and fixing underlays to purlins. It provides reliable adhesion, flexibility and resistance to wear, ensuring long-lasting performance even under varying environmental conditions. It is also designed to withstand moisture, dust and temperature variations, making it an essential accessory for secure and efficient roofing installations. Its easy application and strong bonding help maintain a clean, professional finish, reducing maintenance.

Feature	Reference
Color	Grey
Standard Size	24, 48, 72, 96 mm X 55 mm
Service Temperature	Excellent
Thickness	8 mils (0.20 mm)
Elongation	25 %
Steel Adhesion	21 N/100 mm
Tensile Strength	45 N/10 mm

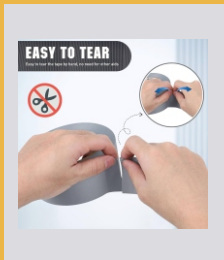
- 1 - Available in Grey color, and standard width of 48 or 72mm and 55 m long
- 2 - When applied on purlin, it creates barrier or insulation between purlin and panel in roofing application
- 3 - Natural Rubber Adhesive
- 4 - Cold Temperature Performance
- 5 - Strong and Easy to Tear
- 6 - Waterproof cloth-reinforced polyethylene film backing



Water Resistance

Usefull in waterproof application

Designed to provide reliable protection against water ingress, this product ensures long-lasting waterproofing in roofing, cladding and sealing applications. Its durable composition prevents leaks, enhances structural integrity.



Easy to Tear

Comfortably tears

This product is designed for user-friendly handling, allowing it to be torn by hand without the need for scissors or cutting tools. Its controlled tear properties ensure precise application reduce waste.



Adhesion

Good holding power

Engineered for strong and reliable bonding, this product ensures that materials remain securely fastened to a variety of surfaces. Its excellent adhesion provides long-lasting performance.

9 - SILICON SEALANT MPOWER

SILICONE SEALANT - German Technology

Silicone Sealant - MPower - German Technology is a high-quality, neutral cure silicone sealant designed for durable, flexible and long-lasting sealing applications. It offers excellent adhesion to a wide range of materials such as glass, metal, ceramic and most construction substrates without the need for priming. With superior weather, UV and temperature resistance, this sealant ensures reliable performance in both indoor and outdoor environments, making it ideal for construction, glazing, sanitary and general sealing purposes. It remains permanently elastic after curing, providing excellent joint movement capability and preventing cracks or leaks over time. The neutral cure formula minimizes corrosion risk on sensitive metals and ensures compatibility with natural stone.

Product	Packaging	Color
M POWER Universal Silicone GP	280 ml	Transparent, White
M POWER GP ABF	280 ml	Transparent, White



Mpower Universal Silicone “GP” Universal General Purpose Silicone

- Very easy to apply
- Colourfast and UV resistant
- Permanently elastic after curing
- Very good adhesion on many materials
- Used in building joints with high movement joints



COLD ROOM ACCESSORIES

10.1 - DOOR HINGES & DOOR LOCKS



Coldroom Door hardware

Covers the specialized mechanical, structural and electrical components designed to handle thermal stress, heavy traffic and extreme sub-zero or high-humidity environments. Unlike standard hardware, these components utilize advanced low-temperature engineering plastics, stainless steel and composite materials to prevent structural brittleness and freezing failures.



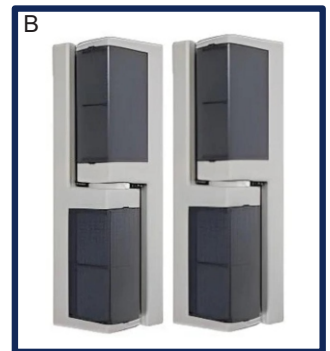
Coldroom door hinges, lock latches and lock cylinders form a **tripartite mechanical safety and sealing system** engineered to maintain sub-zero thermal barriers while guaranteeing workplace safety. These components must withstand deep freeze conditions down to -40°C without mechanical failure.

Coldroom Door Hinges

Industrial coldroom hinges utilize cam-lift (rising) engineering to lift the door leaf slightly during the opening cycle. This layout eliminates floor gasket friction, while the gravity-assisted dropdown ensures a highly pressurized airtight seal when closed



Door Hinges

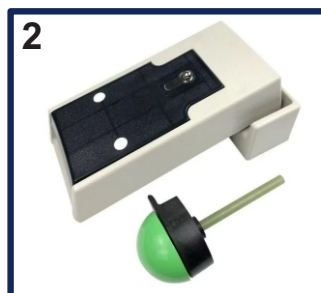


PVC Hinges

Lock Latches & Cylinders

Coldroom lock latches feature **over-center radial or punch-action fasteners** designed to compress heavy insulated doors firmly against the frame profile

Lock cylinders used in coldrooms must resist freezing and internal condensation, which can lock up traditional internal pins.



Also Available In PVC



Door lock(zinc alloy)

COLD ROOM ACCESSORIES

10.2 - PRESSURE PORT (PVC)

(Officially classified as **Pressure Relief Valves**) are critical safety devices engineered to balance the internal and external air pressures of walk-in coldrooms and industrial freezers. When a coldroom door is closed or during a defrost cycle rapid temperature changes create extreme internal pressure differentials. Without a relief port, this structural load can implode or explode insulated panels, tear down ceiling structures or cause the main doors to freeze shut or pop open violently.

PRESSURE RELIEF PORT



Voltage: AC220V

Power: 18W

Frequency: 50Hz

Air Inlet/Outlet Area: 50 cm²

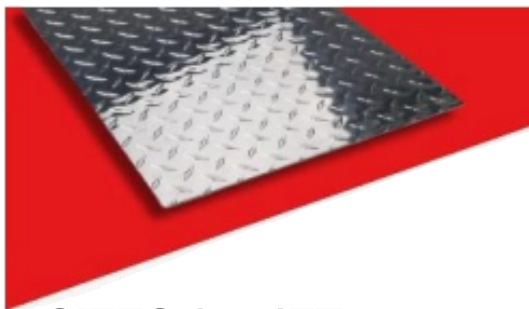
Electrical Connection Method: Connect to the output terminal of a leakage circuit breaker; continuous power supply is permitted.

Overall Dimensions: Diameter 157 mm x 110 mm (height may vary)

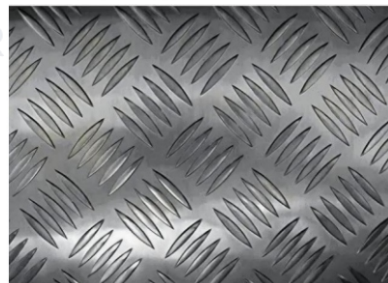
Installation Hole Size: Diameter 125 mm

10.3 - ALUMINIUM CHEQUERED PLATE

Chequered plate in Aluminum and SS are available in store for coldroom floors and wall skirting protection



**SIZES 8 x 4FT.
ALLOY 1100 & 3105**



**SIZES 8 x 4FT.
ALLOY 1100 & 3105**

COLD ROOM ACCESSORIES

10.4 - POLAR CURTAIN (PVC RIBBED) & STAINLESS STEEL RAIL & PLATE SET

Polar Strip Curtains (PVC With Ribs)

Our Curtains are highly specialized secondary thermal barriers designed explicitly for walk-in freezers, blast chillers and refrigerated transport vehicles. Unlike standard PVC, polar grade material is infused with low-temperature plasticizers that lower its glass transition temperature. This ensures the strips remain pliable, soft and completely crack-resistant in extreme sub-zero conditions.



Stainless Steel (SS) Rail and Plate Sets

(Commonly known as Hook-On Track Systems) are the industrial standard for mounting PVC strip curtains on coldroom and freezer doors. Built primarily from Grade 304 stainless steel, these mounting systems are completely rust-proof, resistant to harsh food-safe chemical washes and engineered to withstand continuous sub-zero stress without becoming brittle.

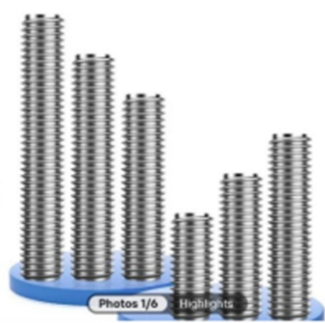
The kit consists of two distinct mechanical components that work together to create a flexible, modular thermal barrier:

- 1.The Hook-on Rail (Track):** A continuous, heavy-gauge stainless steel rail featuring a series of pre-spaced, outward-facing teeth or hooks. This rail is mounted directly onto the wall face over the door header or inside the door lintel.
- 2.The Plate Sets (Hanger Plates):** Two-piece stainless steel sandwich plates that are permanently rivet or bolted onto the top edge of individual PVC strips. Each plate features slot cutouts that slip directly onto the rail Hooks.

11 - THREADED ROD|NUTS|BOLT&WASHERS

Sag Rods are precision-engineered steel rods used to support purlins, reduce deflection and maintain structural alignment of roof systems. Installed diagonally or horizontally between purlins, sag rods prevent the "sagging effect" that occurs due to roof sheet load, wind pressure, snow load and thermal movement

These rods are manufactured from high-tensile steel bars and threaded at both ends to allow secure tightening using nuts or washers. Sag rods form an essential component of the bracing system in Industrial sheds, warehouses, factories, and PEB structures.



SURFACE TREATMENT

BLACK OXIDE /
ELECTROGALVANIZED
(GALVANIZED) /
HOT-DIP GALVANIZED(HDG)

MATERIAL

Carbon steel / stainless steel

Application

Industry

Specifications

OEM customization is supported



Key Features

- Provides anti-sag support for purlins.
- Enhances overall roof stability.
- Compatible with C/Z Purlin's.
- Suitable for long-span industrial roofing.
- High tensile strength steel.

Benefits

- Prevents roof misalignment.
- Controls purlin lateral buckling.
- Improves load distribution.
- Lightweight yet high-strength steel rod.
- Long service life with HDG or GI finish.

Applications

- Purlin bracing.
- Roof structural support.
- Steel sheds & industrial buildings.
- Warehouses & logistic hubs.

Installation Notes

1. Insert sag rod through purlin holes.
2. Tighten nuts on both ends.
3. Maintain uniform tension across all rods.





RAHJ **TRANSWORLD**

GENERAL TRADERS FZC

**An ISO 9001:2015
Certified Company**

CWS-IV-225549 26Th Floor, Amber Gem Tower, Ajman, UAE
E-mail: info@rahjuae.com

Contact

 **+971509325396**

 **+971509325396**

