

Floor Prains, Cleanouts, Gratings and Flexible Tube Connectors







HAMÁDÁ MFG. CO.,LTD.



Site Human Visdom

We treasure the local and international relationships of which our founders deepened with our customers.

We always work on making these relationships even deeper and more valuable.

Technology has been one of the key factors to improve our lives throughout history and has been helping us to connect with others worldwide.

The bonds strengthened with our customers are extremely important to us just as our quality

products are for every system and construction.

Each of our associates is rich in practical

wisdom and delivers quality service in timely professional manner every day. We would like you to always be 100% satisfied by the quality and efficiency of our service.

CORPORATE PROFILE

Firm name | HAMADA MFG.CO.,LTD.

Foundation | April, 1908

Established 22nd June, 1962

Capital 10,000,000JPY(Authorized 12,500,000JPY)

Address 2-12,3-Chome Itachibori Nishi-ku Osaka, Japan

(POSTAL CODE) 550-0012

Tel/Fax +81-6-(6541)-5439/+81-6-(6541)-5954

President Takeshi Hamada

Trade Mark (S.H.W.)®

URL http://www.s-h-w.net

OUT LINE OF CORPORATE HISTORY

1908 Mr. Shokichi Hamada founded a factory under the firm name of

"HAMADA SEISAKUSHO", started production of faucets, valves and cocks, and put "SHW"logo on our products.

"S.H.W." stands for Shokichi Hamada Works.

1928 Our former President, Mr. Isamu Hamada, opened a sales branch in Nishi-ku,

Osaka, Japan.

1938 Reorganized the sale branch to an independent sales department.

1938 Established under the firm name of EISHIN COMPANY LIMITED in Manchuria

and started to produce faucets, floor drains, valves and cocks.

1943 Established the consolidated company, "YAMATO VALVE MFG. CO., LTD.",

based on the firm name of HAMADA SEISAKUSHO by order of the Japanese

authorities.

Through enlargement of production facilities, the company supplied military circles with ship parts and other munitions serving the wartime industry until the end of the World War II.

1950 Changed the firm name to HAMADA VALVE CO., LTD.

1962 Changed the firm name to HAMADA MFG. CO., LTD. and Mr. Yasuo Hamada

became the president.

1997 Moved the head office to the present address.

2012 Mr. Takeshi Hamada became the president.

6 Mr. Takeshi Hamada became the chairman of the Youth Group of PST Osaka (The Osaka Plumbing, Sanitary Trade Association).

Introduction

This catalogue contains complete products of HAMADA MFG.CO.,LTD.

Since commencement of export in 1934,"SHW" have supplied products to prestigious projects worldwide. And we meet with an unexceptionally gratifying receiption in the trade in approval of quality, most competitive price and correct time of shipment from clients in many overseas markets.

High Quality

"SHW" Floor Drains, Cleanouts, Gratings
Flexible Tube Connectors and other products are
made of specially selected materials by expert
engineers and strict quality control procedures are
adhered to.

WITHSTAND LOAD FOR THE PRODUCTS

*Conclusion:

"SHW" Hamada gratings ref: H-397-PF 4" (Traditional series) has heavy duty performance and is capable of withstanding a load of upto 5 kgs/cm without any fracturing to the grating.

Sakura series is also has great performance against load. There is no deformation under 3kgs/cm². The grating part & other parts do not break under 10kgs/cm².





Correspent to Quality

We continue producing Floor Drains & Flexible connecters in pursuit of trust, relief and satisfaction of customers. We devise our own strict quality manual, and we practice it to follow our quality standard. We establish a procedure of the quality control and fix the system which we set up an inspection appliance, a measuring instrument, and can support a guarantee of quality. In addition, we examine quality contents regularly and work on continuous quality improvement at our whole Hamada company.















- all 190% pieces of Floor Desira one by one of the quality based on all the above





Ouality Control Manual















(Flow rate measuring)

Product warranty and period

Thank you for choosing our products. When placing an order for a product, the following conditions apply unless noted otherwise in the quotation, contract, or specifications.

Details of warranty

• Warranty period

The warranty period is each series are difference. Please ask our agency.

Scope of warranty

In the event that our product fails due to our responsibility within the warranty period, we will provide substitutes or repair the product in question free of charge at our factory. Damage due to any reason for which we are not responsible, as well as opportunity loss for the customer, passive damage, secondary damage, accident compensation, damage to products other than ours, and others resulting from the failure of our products, is not covered by our warranty.

3Cases not covered by warranty

- a) The cases shown bellow are not covered by the warranty even if they occur within the warranty period: Failure due to incorrect usage or improper repair or remodeling (Including cases where the conditions of usage differ from the manufacturing specifications)
- b) Damage or failure due to dropping the product after purchase.
- c) Failure due to fire, earthquake, flood, lightning, or other natural disaster.
- d) Failure due to entry of foreign matter come from outside.
- e) Failure due to specific problem resulting from combination with incorporated equipment.
- f) Cases where we consider that we are not responsible The customer's and its client's opportunity loss, as well as damage to products made by other companies and other damage, due to the failure of our products are not covered by our warranty.

Model Number Configuration

Floor Drain & Cleanout

514WT=Loose Grate and Cover Type

512=Screwed Blind Cover Type

397=Screwed Grating Type 340=Round Shape Top with Screwed Blind Cover 394=Round Shape Top Grating with Trap

395=Round Shape Top Grating

396=Round Shape Top & Insect Proof Grating,etc

Material

SS=Stainless Steel 304 SSM=Stainless Steel 316 CP=Brass + Chrome Plated* Square Size

150×150, 109×109,79×79

H-514WT-PF-SS-150×150×4

PF=Push Fit Type(standard) ****BSPT** connection is available only for Round Type.

*Cover Type connection has been obsolete.

HL=HairLine Finish. AD=Adaptor Reducer EX=Excentrique Adaptor WD=Wide Drainuge area etc (Customized)

*Step of Chrome Plating: Nickel Plating $15\sim20\,\mu$ m(Base Plated) + Chrome Plating $0.25\,\mu$ m(Finish Plated)

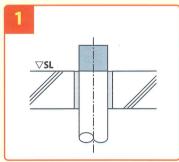
4"-3",or 4"-2"

When you request reducer, please

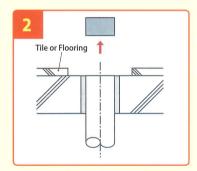
put requested outlet size as bellow;

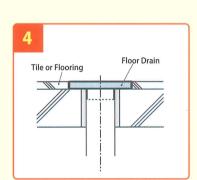
Installation Manual & Handling

PUSH FIT CONNECTION



Be adjusted dependent upon height of finished floor.





Completed.

Install the Floor Drain.

PRECAUTION IN HANDLING OF "SHW" FLOOR DRAINS

MAINTENANCE

Do not put adhesive tape such as masking tape on our products. The chemicals in the tape may damage the plated surface.

WASHING & CLEANING

•Use of chemicals & detergents for cleaning is to be avoided, especialy acid based detergents.

KEEPING

●To maintain its beauty, clean regularly with a dry and soft cloth.

PRECAUTION IN KEEPING

- ●Our Chrome Plated Floor Drain can keep brightness for long years unless otherwise Big mis-usage such as outside use and/or scrub hard etc.
- Direct sun-ray should be avoided when our goods for stored long period of time.

SAKE EEOOR DRAIN SERIES

NEW ECONOMICAL FLOOR DRAIN STAINLESS STEEL (SS304,SS316) TOP & STRONG ABS CORE

"SAKURA" is Japanese traditional beautiful flower which is loved by all. Our "SAKURA" series FLOOR DRAIN comes from this SAKURA.

They are beautiful, strong and light.

H-514-WT-PF-SS-ABS(3pcs Type)

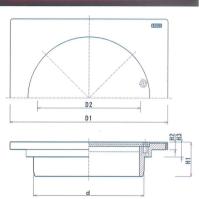
PUSH FIT CONNECTION



FLOOR DRAIN



Dimensions.						(mm)
	d	D1	D2	H1	H2	H3
150sg x 4"	102	150	98	32	7	16



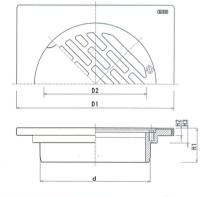
H-512-PF-SS-ABS

PUSH FIT CONNECTION



CLEANOUT

Dimensions.						(mm)
	d	D1	D2	H1	H2	H3
150sq x 4"	102	150	98	32	7	16



H-397-PF-SS-ABS

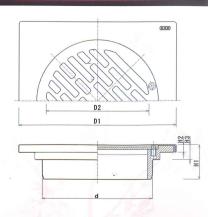
PUSH FIT CONNECTION



GRATING

Dimensions.						(mm)
	d	D1	D2	H1	H2	H3
150sq x 4"	102	150	98	32	7	16
79sq x 2"	51	79	45	29	4	16

Flow Rute 2":39 ℓ /min*





SUPERIORITY brings better maintenance.(for 4" outlet) Drain trap slot cover can be removed easily.

Drain trap slot cover can be removed easily. Customers can choose many kinds of drain base. Terrain Drain Base is available.

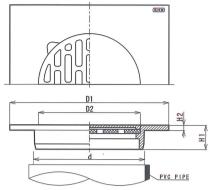
TRADITIONALE STEEL SQUARE TYPE SERIES

H-514-WT-PF-SS

PUSH FIT CONNECTION

LOOSE GRATE&LOOSE BLIND COVER(3pcs)





 Dimensions.
 (mm)

 d
 D1
 D2
 H1
 H2

 79sq x 2"
 51
 79
 47
 20
 2.5

 109sq x 3"
 77
 109
 73
 21
 2.5

 150sq x 4"
 103
 150
 96
 23
 2.5

PUSH FIT CONNECTION

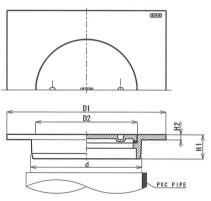
STAINLESS STEEL MADE + POLISHED

*****SS316 is available.

H-512-PF-SS

CLEANOUT(SCREWED BLIND COVER)





 Dimensions.
 (mm)

 d
 D1
 D2
 H1
 H2

 79sq x 2"
 51
 79
 47
 20
 2.5

 109sq x 3"
 77
 109
 73
 21
 2.5

 150sq x 4"
 103
 150
 96
 23
 2.5

STAINLESS STEEL MADE + POLISHED

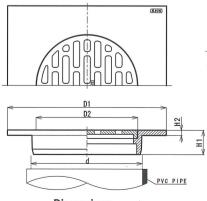
SS316 is available.

H-397-PF-SS

GRATING(SCREWED GRATE)



PUSH FIT CONNECTION



Dimensions.					(mm)	*
	d	D1	D2	H1	H2	Flow rate
79sq x 2"	51	79	47	20	2.5	48 ℓ/min
109sq x 3"	77	109	73	21	2.5	156 ℓ/min
150sq x 4"	103	150	96	23	2.5	246 ℓ/min
		-			-	

Flow rate measured under the secondary side open. (Refter to P3)

STAINLESS STEEL MADE + POLISHED

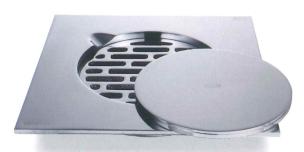
SS316 is available.

TRADITIONALE BRASS CHROME PLATED SQUARE TYPE SERIES

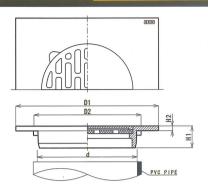
H-514-WT-PF-CP

PUSH FIT CONNECTION

LOOSE GRATE&LOOSE BLIND COVER(3PCS)



BRASS + CHROME PLATED



Dimensions.					(mm)
	d	D1	D2	H1	H2
79sq x 2"	51	79	47	20	2.5
109sq x 3"	77	109	73	21	2.5
150sq x 4"	103	150	106※	23	2.5

*D2 SIZE IS LARGER THAN SS PRODUCT

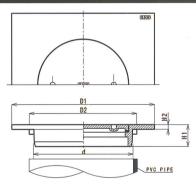
H-512-PF-CP

CLEANOUT(SCREWED BLIND COVER)



BRASS + CHROME PLATED

PUSH FIT CONNECTION



Dimensions.					(mm
	d	D1	D2	H1	H2
79sq x 2"	51	79	47	20	2.5
109sq x 3"	77	109	73	21	2.5
150sq x 4"	103	150	106 ※	23	2.5

*D2 SIZE IS LARGER THAN SS PRODUCT

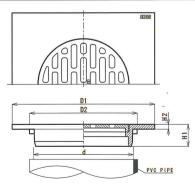
H-397-PF-CP

GRATING(SCREWED GRATE)



BRASS + CHROME PLATED

PUSH FIT CONNECTION



Dimensions.					(mm)
	d	D1	D2	H1	H2
79sq x 2"	51	79	`47	20	2.5
109sq x 3"	77	109	73	21	2.5
150sq x 4"	103	150	106%	23	2.5
- X 0					

*D2 SIZE IS LARGER THAN SS PRODUCT



☆SUPERIORITY brings better maintenance.(for 4" outlet)

Drain trap slot cover can be removed easily. Customers can choose many kinds of drain base. Terrain Drain Base is available.

WIDE DRAFFINAGE FLOOR DRAIN SERIES

only for 150mmSq×4"

NEW BIGGER DRAINNAG FLOOR DRAIN for Gully Trap Maintenance. **STAINLESS STEEL (SS304,SS316) TOP & STRONG ABS CORE**

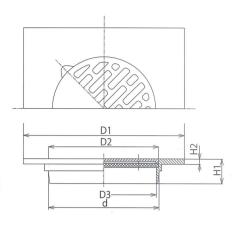
H-514-WT-PF-SS-WD (3pcs Type)

PUSH FIT CONNECTION



FLOOR DRAIN

Dimensions.						(mm)
	d	D1	D2	D3	H1	H2
150sa x 4"	102	150	106	98	23	2.5



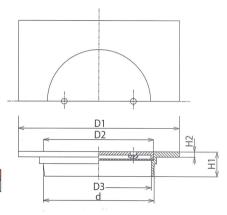
H-512-PF-SS-WD

PUSH FIT CONNECTION



CLEANOUT

Dimensions.						(mm)
	d	D1	D2	D3	H1	H2
150sq x 4"	102	150	106	98	23	2.5



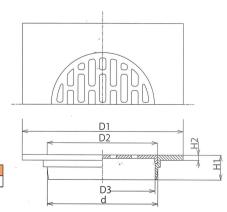
H-397-PF-SS-WD

PUSH FIT CONNECTION



GRATING

Dimensions.						(mm)
	d	D1	D2	D3	H1	H2
150sq x 4"	102	150	106	98	23	2.5





☆SUPERIORITY brings better maintenance.(for 4" outlet)

Drain trap slot cover can be removed easily. Customers can choose many kinds of drain base. Terrain Drain Base is available.

ROUNDERESERIES

H-340-PF CLEANOUT, FOR PVC PIPE, PUSH FIT CONNECTION



BRASS MADE + CHROME PLATED STAINLESS STEEL MADE + POLISHED

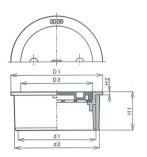
***SS316** is available.

H-340-PF-SS

H-340-PF-CP

H-341-PF-CP

Dimei	Dimensions. (mm)									
11-1-13	d1	d2	D1	D2	H1	H2				
1-1/2"	40	44	50	37	25	2				
2"	51	56	62	47	25	2.5				
2-1/2"	67	71	78	63	25	2.5				
3"	77	83	91	73	25	3				
4"	100	107	116	96	25	3				
5"	125	131	142	121	31	4				
6"	146	154	167	137	32	4				



H-341-PF GRATING WITH WIDE FLANGE, FOR PVC PIPE, PUSH FIT CONNECTION

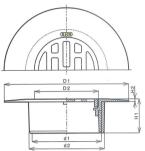


BRASS MADE + CHROME PLATED STAINLESS STEEL MADE + POLISHED

S STEEL MADE + H-341-PF-SS

SS316 is available.

Dime	nsion	5.				(mm)
	d1	d2	D1	D2	H1	H2	
1-1/2"	40	44	75	37	25	2	
2"	51	56	85	47	25	2.5	
2-1/2"	67	71	105	63	25	2.5	
3"	77	83	115	73	25	3	
4"	100	107	145	96	25	3	
5"	125	131	175	121	31	4	
6"	146	154	200	137	32	4	



H-342-PF CLEANOUT WITH WIDE FLANGE, FOR PVC PIPE, PUSH FIT CONNECTION



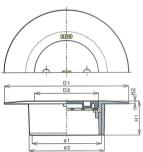
BRASS MADE + CHROME PLATED STAINLESS STEEL MADE + POLISHED

*SS316 is available.

H-342-PF-CP

H-342-PF-SS

	Dime	51 56 85 47 25 2.5 67 71 105 63 25 2.5 77 83 115 73 25 3 100 107 145 96 25 3 125 131 175 121 31 4						
		d1	d2	D1	D2	H1	H2	
	1-1/2"	40	44	75	37	25	2	
	2"	51	56	85	47	25	2.5	
	2-1/2"	67	71	105	63	25	2.5	
ı	3"	77	83	115	73	25	3	
j	4"	100	107	145	96	25	3	
ĺ	5"	125	131	175	121	31	4	
ì	6"	146	154	200	137	32	4	

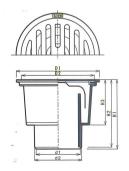


H-394-PF GRATING WITH P-TRAP, FOR PVC PIPE, PUSH FIT CONNECTION



Dimensions. (mm)										
	d1	d2	D1	D2	H1	H2	H3			
75 φ x 1-1/2"	40	44	78	69	70	66	45			
100 φ x 2"	51	56	105	95	70	66	45			

1	Parts and	l Materials.	Name Materials Body Brass					
	No.	Name	Materials					
Ī	1	Body	Brass					
ı	2	Grating	SUS					



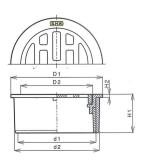
H-395-PF GRATING, FOR PVC PIPE, PUSH FIT CONNECTION



BRASS MADE + CHROME PLATED STAINLESS STEEL MADE + POLISHED **SS316 is available.

H-395-PF-CP H-395-PF-SS

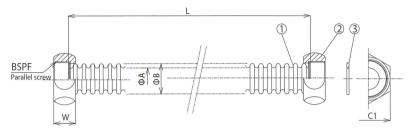
Dimensions. (mm)											
	d1	d2	D1	D2	H1	H2					
1-1/2"	40	44	50	37	25	2					
2"	51	56	62	47	25	2.5					
2-1/2"	67	71	78	63	25	2.5					
3"	77	83	91	73	25	3					
4"	100	107	116	96	25	3					
5"	125	131	142	121	31	4					
6"	146	154	167	137	32	4					



STAINLASS STEEL FLEXIBLE TUBE CONNECTOR



Size	(mm)
	LENGTH
1/2"	200,250,300,350,400,450,500,600,700,800,900,1000,
3/4"	-ditto-







										(mm
			TUBE			NUT	FA (II)	LEGTH	DESIGN	TEMP
SI	ZE	I.D.	O.D.		w	PF	C1	1	PRESS	RANGE
		φА	φВ		VV	PF	Ci	_	(MPa)	(Deg-C)
15A	1/2B	12.6	16.0	0.3	12.0	1/2	23.0		0.98	0-120
20A	3/4B	16.5	20.0	0.3	14.0	3/4	29.0		0.96	0-120

3	PACKING	NON-ASBESTOS	1	t=1.5
2	NUT	BRASS+CP	2	C3604BD
1	TUBE	STAINLESS STEEL	1	SS304
No.	NAME	MATERIAL	Qt.	REMARKS

ADAPTOR REDUCER









EXCENTRIQUE ADAPTOR

Excentrique Adaptor is used with our Chrome Plated series, SS-WD & SAKURA series. series when Gully trap is difficult to take out from drainage. In case, your gully trap is bigger than one of TERRAIN gully trap, we suggest to use this adaptor as bellow photos.

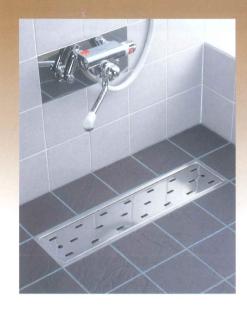








TIP-Serves



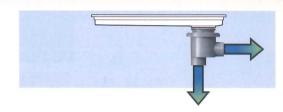
DRAIN UNIT WITH P-TRAP

This is the new style valuable Floor Drain which meets with your cool tile arrangement.

H-TP Series promises the comfortable drain design and environment.

P-trap prevents the bad smell and insects from coming up.

H-TP Series sweets for 150mm square tile and 200mm square tile.

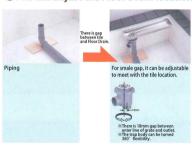


It can be installed at horizontal and vertical piping.

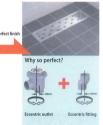


• In case virtical line. (One eccentric fitting is included the Packaging a eccentric fitting.)

You can adjust the Floor Drain location to meet with the tiles.







Special Feature

Even after installing the drain pan, it is possible to adjust the piping position without any problem.
Capacity is within 36mm.



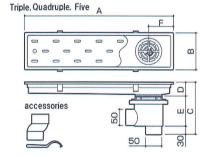
You can chose horizontal line or vertical line without any problem.



unit : mm











[150mm SQ type]

	A	В	C	D	E	F
H-TPE-150S	148	148	194	57.5	106.5	74
H-TPE-150T	448	148	193.5	57	106.5	100
H-TPE-150Q	598	148	194	57.5	106.5	100
H-TPE-150F	748	148	193.5	57	106.5	100

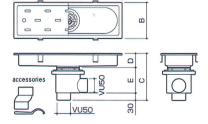
[200mm	SQ	type
		-

	A	В	C	D	E	F
H-TPE-200S	198	198	193.5	57	106.5	99
H-TPE-200T	598	198	176.5	40	106.5	150
H-TPE-200Q	798	198	177.5	41	106.5	150

[250mm SQ type]									
	A	В	С	D	E	F			
H-TPE-250S	248	248	193.5	57	106.5	124			

●H-TPC-150T

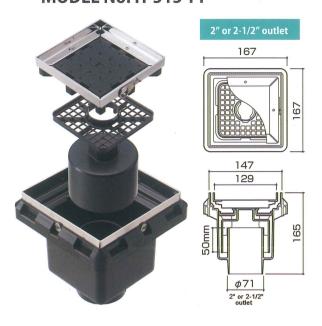




[150mm SQ type (Center Outlet Type)] unit : r										
	D	E								
H-TPC-150T	448	148	192.5	57.5	105					
H-TPC-150Q	598	148	194	59	105					

FILDRALEY

MODEL No. H-515-PF





Stylish & Elegant "HI-DRAIN"

NEW STYLE FLOOR DRAIN

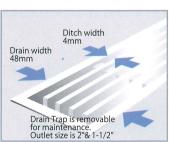
This is the new style Floor Drain which adds a stylish & elegant touch to the interior. The whole floor will be decorated harmoniously.

Simple and beautiful design will be attained.

I G-Serries

Linear Type Grating

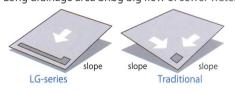






Speedy drain

Long drainage area bribg big flow of sewer water

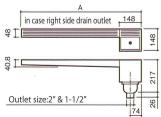


TWO kinds of drain style



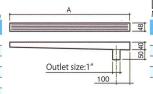
Elegant finish

Drain Parts are made by Stainless Steel(SS304). The width is only 48mm and ditch width is only 4mm. Elegant outlooking of Floor is not spoiled by drainage.



LINEAR TYPE GRATING with TRAP

	Material:Stainless Steel(SS304) unit:mm				
	FIG	OUTLET Position	> A	Minimam qt.	
	NT 59112	R	1200	1	
٠	NT 59212	L	1200	1	
	NT 59115	R	1500	1	
	NT 59215	L	1500	1	
1	NT 59118	R	1800	1	
1	NT 59218	L	1800	1	
ŀ	NT 59121	R	2100	1	
	NT 59221	L	2100	1	
	Please choise ou RIGHT or LEFT.	ıtlet position	L	R	



	LINEAR TYPE Material:Stainle	hout TRAP unit:mm	
I			Minimam qt.
1	NL 59512	1200	1
+	NL 59515	1500	1
+	NL 59518	1800	1
	NL 59521	2100	1

Is it Trouble? It is not material problem.

Is it rust? Material problem?

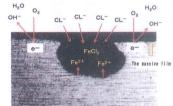


Color is dark brown. There are spots.

It is not material problem. It is rust. However, it is not material problem. It is chloride attack on Stainless Steel. Chloride is included in the detergent, sea water and others.

As a feature, large and small spots appear on surface. If you find this situation in the beginning, you can remove the rust easily, however, if the spot becomes bigger and deep, it is difficult to remove it.

⇒For repair, need to re-polishing.





Color is white.

It is not material problem. it is something adhering of calcium, silicon, magnesium and iron component which is included in water.

⇒For repair, just wash them with water. In case, the white part is still there, please use "Citric asid-contining" liquid. After washing, please wash again and dry up for keeping clean condition.



Color is brown.

It is not material problem. it is rust. it is. this rust is brought by other iron such as metal chip, metal dust, nail, hair pin and etc.

⇒For repair, need to re-polishing.



Color is yellow or black.

It is not material problem. It is the damages by strong acid or alkali. It is the phenomenon that the material got acid or alkali treatment.

- ⇒For repair SS products, need to re-polishing.
- ⇒For repair Chrome plated products, it is impossible to repair.





Yes, it is real Stainless Steel. However, It is not material problem. it is rust. Machined, Pressed & Polished products has magnetic property.

SS304(CF8) & SS316(CF8M) are common Austenite Stainless Steel which does not have magnetic property.

However, after mechanical working(machining, pressing, vending, polishing, welding and etc.), the Austenite metallographic structure exchanges to Martensite partly.

Chemical components and Mechanical Characteristic are not difference, from SS standard, therefore, Corrosion-resistant is same as SS Standard (SS304, SS316 and etc.).

Projects



















- (random order)
- Al Marfa Port Landside Development
- Aramco Residence
- Civil Defence Bidgs-AUH
- Etihad Towers
- GRAND HYATT Hotels
- King Abdul Aziz University
- Lifco International
- National Guard Housing-KSA-
- Ruwais Housing Complex
- The dome tower Jumeirah lake towers

- Abu Dhabi International Airport
- Al Markaz
- Aramco Rabigh Gas Plant
- Dubai International Airport T-3
- Ferrari World
- Habshan 5process plant
- King Faisal University
- Mac Donald's
- OLAYA Towers
- SABIC Housing
- Yas Mall

- Al Maktoum Hospital,
- Al Sahel Towers
- Cristal Hotel
- Emirates International Schools
- GOSI Housing,
- Holiday Inn Hotels
- Le Meridien Hotels & Resorts
- Marriott Int. (Sheraton Hotels)
- Qassim University
- Seba Tower
- Yas Marina Hotel

DAIY-NEESEKUN

High Quality Multi Function Heat Insulating Paint

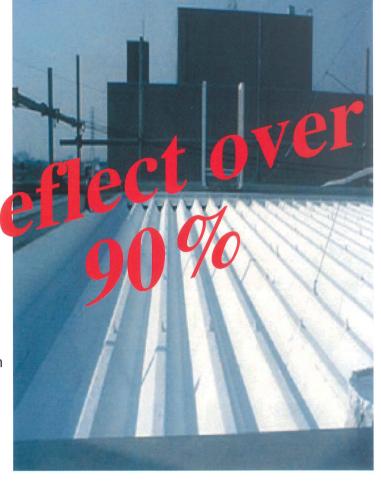
DAN-NETSU KUN

Save Energy!!



Micro special ceramic beads in DAN-NETSU KUN make a heat insulation layer which reflects radiation heat energy (hot and cold).

DAN-NETSU KUN helps you save money!



Easy to use!!



DAN-NETSU KUN is a water-borne paint and does not contain any organic solvents. Therefore, it is very easy to handle and environmental friendly.

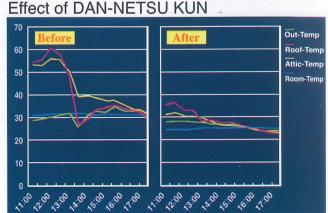
You can use tap water for dilution. DAN-NETSU KUN can be applied as any ordinarypaint with a brush, sprayed or with a trowel.

Case1

Gymnastic Hall

After painting DAN-NETSU KUN, all temperatures were dramatically reduced, especially "roof temperature" and "attic temperature". Before painting, the "room temperature" was higher than the outside temperature.

After painting DAN-NETSU KUN, the room temperature became lower than the outside temperature. In this case, DAN-NETSU KUN was painted ONLY on the roof surface of the gymnastic hall.



Case2

Heat Pipe Line

After applying DAN-NETSU KUN, the surface temperature of the pipe line was reduced by more than 50 deg.C!! DAN-NETSU KUN will help prevent contact burns of workers by greatly reducing surface temperatures. And in case of pipe lines, such as cold or hot water pipe line, DAN-NETSU KUN keeps the fluid temperature and reduces energy loss.



More than 50°C reduced!!

(Paint on heat pipe line)



Multi function

Benefits of using DAN-NETSU KUN:

- Reduces both hot and cold energy loss
- Waterproof
 Aids in burn prevention
- Aids in soundproofing

Applications

- Roofs and walls (inside/outside)
- Pipe lines
- Boilers

- Containers
- Machine cases and covers
- Many other applications

Characteristics

Thermal conductivity	0.015W/mK (0.013 kcal/m.h.degC.) (1mm thickness)	Temperature gradient method
Impact resistance	No crack and no peel-off by deforming (weight :500g , Drop height :350mm)	JIS K 5400
Tensile strength	0.3 N/mm2 (3.1 kgf/cm2)	JIS K 7113
Accelerated weather resistance	No abnormality for1000 hours	JIS K 5600
Salt water resistance	No abnormality for 120 hours (3W/V% salt water)	JIS K 5400

Specifications

Solvent	Water (water borne paint)	
Content	14kg	
Colors	about 100 colors	
Operating Temp.	-100 ∼ 200 °C	
Painting method	Brush, Roller, Spray, Trowel	

^{※)} DAN-NETSU KUN is special and water borne paint. Therefore, please use up within 3-4 months after production to keep its quality.

Do not keep DAN-NETSU KUN in your stock yard or building site for a long time to avoid rotting solvent water or drying out.





Solution for bad odor in your room Air-cleaning wall-coverings®



'Air-cleaning wall-coverings TF-V'

decompose bad odor ingredients into water and carbon dioxide by its cycled semipermanent deodorizing function.

Its effects last repeatedly and keep air always clean and fresh.

It is safe.

The safety of the chemicals are confirmed by various tests designated by "SEK standard."

It is high tolerant.

It is high tolerant. It cleared the tests to confirm its effect after wiping the surface for 100 times. It is confirmed that its effects after wiping changes little comparing with it before use.

Sufficient effects.

Sufficient effects can be obtained by using these products on four walls in a 6-mat tatami room. We recommend to use the products on four walls, but theoretically using the products on three walls could produce sufficient effects.

Its effects last semipermanently.

Deodorizing mechanism employing catalysis last semipermanently.

Mechanism of cycle deodorizing of 'Air-cleaning wall-coverings TF-V'

'Air-cleaning wall-coverings TF-V' has unique cycled deodorizing mechanism. It continues absorbing, decomposing and destroying bad odor ingredients semipermanently.

- 6 After emission, TRIPLEFRESH gains its original state. (Catalyst does not affect original material.)
- decomposed into water and carbon dioxide(CO2) and emitted into air.

carbon dioxide

ecomposition

OTRIPLEFRESH is processed(fixed) on the surface of 'Air-cleaning wall-coverings TF-V.

> 2 Bad odor ingredients are touched on TRIPLEFRESH on the surface by the of flow air and absorbed in TRIPLEFRESH.

cycled deodorizing

bad odor ingredients

Unique deodorizing performance is a feature of TRIPLEFRESH.

It applied TRIPLEFRESH which enables cycled deodorizing as absorption → decomposition → recycle. It is a unique deodorizing chemical with high quality and reputation.

TRIPLEFRESH (Image)

TF metallic salt It decomposes bad odor ingredients into water and carbon dioxide (CO2) by catalysis.

TF nitrogen compound It absorbs and decomposes aldehyde ingredients.

 Absorbed ingredients are decomposed into water and carbon dioxide(CO2)by catalysis.

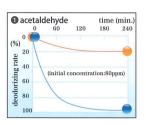
- ※ As long as air flows, it continues absorbing and decomposing bad
- Metallic salt posesses catalysis and changes little after decomposition of bad odor ingredients and its performance keeps its original power.

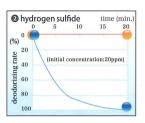
'Air-cleaning wall-coverings TF-V'

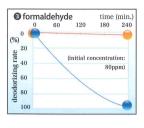
'Air-cleaning wall-coverings TF-V' deodorizing performance test (Suminoe method)

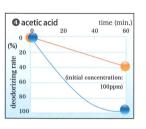
High performance data of bad deodorizing performance are obtained.

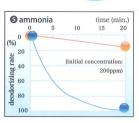
POINT 2

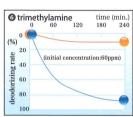


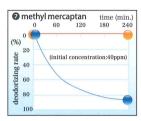


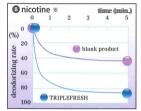


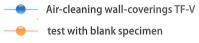










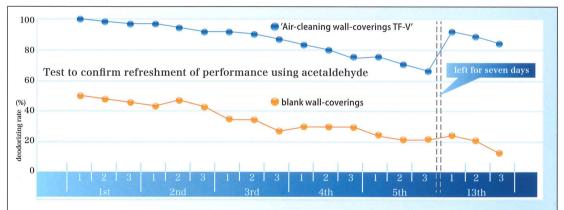


**As per deodorizing performance test for nicotine
As nicotine gas is not stabilizing in room temperature,
different test method is used.
Data in the above chart is data from deodorizing
test method for TRIPLEFRESH (TF).

Performance refreshing test to prove cycled deodorizing of 'Air-cleaning wall-coverings TF-V' (Suminoe method)

Refreshment of high deodorizing performance comparing with blank product is confirmed.

A test method to confirm refreshment and change of deodorizing performance through repeated deodorizing tests of 'Air-cleaning wall-coverings TF-V'.



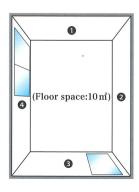
As shown in the left chart, it is confirmed that blank products stop absorbing ingredients and are saturated after a set of time, while 'Air-cleasning wall-coverings TF-V' refreshes deodorizing performance after left out for a week.

POINT

Figures in the chart are not guranteed figures.

They vary by room conditions.

Guideline of effective space of 'Air-cleaning wall-coverings TF-V'





Recommended space are 4 walls (30 m²), but 3 walls (abt.22 m²) are theoretically enough to obtain sifficient effect. In combination with wall-coverings on ceilings, more effect can be obtained.

Effect can be obtained by using this product on 4 walls in a room with a space of up to 100 m².

A 12-mat room in a business hotel

12-mat room (Floor space 19 m², ceiling height 2.5 m) ··· Effect can be obtained by using this product on 4 walls.

A banqueting hall

Middle-sized banqueting hall (floor space $300\,\text{m}^2$, ceiling height $3.0\,\text{m}$) \cdots Using this product on 4 (all) walls and ceilings is recommended.

Space mentioned above is a guideline. The more space this product is used, the more effect is expected. Senced effect varies by the circumstances or each individual who experiences.

Odors which 'Air-cleaning wall-coverings TF-V' cannot absorb and decompose ··· Aromatic compounds as incense, perfume, toluen, xylene, etc. and mould odor

A group of materials called 'Aromatic' have complicated molecule structures, and moulds are of many kinds and also have complicated molecule structures, they will not be decomposed by 'Air-cleaning wall-coverings TF-V.'

Particular odor from an air-conditioner is considered as one of materials which are difficult to be decomposed.





HAMADA MFG. CO.,LTD. OSAKA,JAPAN http://www.s-h-w.net

Distributor