



Practicability and Prompt Maintenance System for the Customers

Working temperature of the Freezing and cold storage is setting up to temperature of minus 30 degrees, and outdoor air temperature is from temperature of 20 degrees to 30 digress as a ordinary temperature. Assume that a pair of Insulated door would be shut by internal and external storage. The difference in temperature between them shall reach from 50 to 60 degrees, when the doors would be installed such harsh location, the most significant problem is warping and twisting by the difference in it's temperature. The structure of the Insulated doors primary endure under such unfavorable conditions.

We, MIZUTA is producing the reliable Insulated doors based on usage data of practical experiences through the years and respective specifications.

Furthermore, we implement the nationwide prompt maintenance when breakdown and/or trouble occurs so as to keep low temperature of freezing and cold storage to the Customer.

We, MIZUTA is designing and producing Insulated doors which meet needs of Customers, and

"Customer care after supply and installation of Insulated doors should be our high priority duty."







LECTOTYPE OF INSULATED DOORS BY UTILIZING SYSTEM

Currently, the warehouse with mobile rack system and multistory have become mainstream so as to peruse handling efficiency in the recent business of freezing and cold storage. The mobile rack system and automatic highrised warehouse have been pursued of high efficiency food processing factory and distribution center have been required for high efficiency.

The Insulated doors installed to exit and entrance for sold storage should be selected for products of performance of high efficiency by status

We, MIZUTA would like to propose you to select the best Insulated doors by means of temperature inside of cold storage, frequency of open and shut, form of goods in custody and frequency of incoming and outcoming.

LECTOTYPE OF THICKNESS OF INSULATED DOORS BY THE TEMPERATURE INSIDE OF COLD STORAGE

Classification	Thickness of polyurethane foam injected (mm)
CLASS F ~ F1	150
CLASS F1 ~ F4	125
CLASS C1	125
CLASS C2	100
CLASS C3	75
FOOD PROCESSING AND SHIPPING PLATFORM	50

MATERIALS FOR SURFACE OF INSULATED DOORS IN PRODUCTION POSSIBLE

Various Stainless Steel Sheets

Various Baking finished Steel Sheets

aluminum-zinc alloy-coated steel sheet

Bonderizing plate

CLASSIFICATION OF COLD STORAGE AND NAME OF GOODS IN CUSTODY

	Item	Retention Temperature (℃)		Goods in Custody
	classification	Range	Reference Temperature	
	F class	below -20	-23	Ice cream and frozen foods
old Storage	C1 class	-15~-20	-15	Ice cream (short term period), frozen fish, frozen meat, salted salmon, salted whale, sod roe and serring roe
Common Cold Storage	C2 class	-2~-10	-6	Frozen eggs, butter, Cheeze, ham, salted cod roe, dried herring, ssalmon roe, split and dried cod and smoked cod roe
	C3 class	-2~+10	0	Mrinboshi, dried herring roe, salted and dried fish, tsukudani, fresh fish (short term period), eggs, fruits, v egetable, fresh meats, katsuobushi, kamaboko, milk, liquor, smoked milk, tee, rise cake, fur goods and textiles

		Item classification	Temperature (°c)	Temperature (%) etc.	Goods in Custody
	Storage	Thermostatic	10~15	70	Rice
		control	5~10	60	Katsuobushi
	Cold				
	la	Humidification	4~6	40	Tea
	Special			95~100	Differ from classify and
1	S	CA	8~8	O ₂ : 3%	degree of maturity lin the
				Co ₂ : 3%	kind of fruit and

STANDARD SELECTION OF INS	SULATED DOOR & PREPARATELY EQUIPMENTS	Contents
FOOD PROCESSING	ELECTRICAL SINGLE & DUOBLE SLIDING INSULATED DOORS (LIGHTWEIGHT)	P3-6
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MEAT PROCESSING FACTORY	LIVESTOCK MEAT TYPE ELECTRICAL SINGLE & DUOBLE SLIDING INSULATED DOORS LIVESTOCK MEAT TYPE ELECTRICAL SINGLE & DOUBLEOVERLAP INSULATED DOORS	P24-25
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PREPARATELY EQUIPMENTS	ARMOR DOCK SHELTER & SUPER AIR SHELTER VARIOUS SWITCH	P30-41
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LIGHTWEIGHT

Electrical & Manual Operation

DOUBLE SLIDING INSULATED DOORS

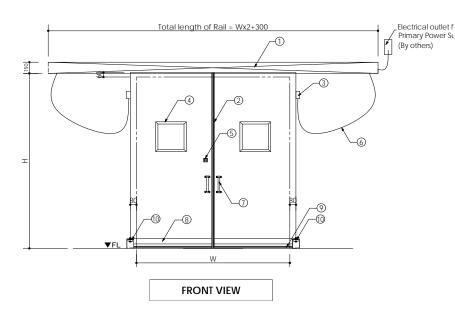
+10℃~

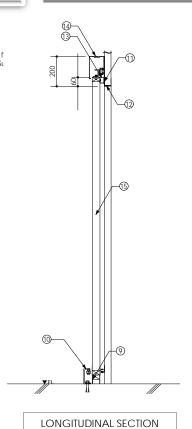


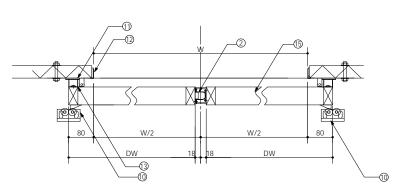
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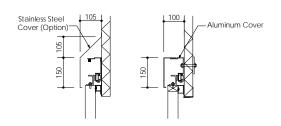
This Insulated door is primarily suitable for the processing factory with consideration of needs to be given for hygienic aspects, and completely covered for part of unit area. The installation of High-performance brushless DC motor and microcomputer control can be implemented for silent and speedy opening action. And, our Insulated doors adequate for partition wall such as insulating panel with implementation of compact configuration in comparison to conventional product. The reversing switch is installed door meeting of doors for safety sake.







HORIZONTAL SECTION



DETAILS FOR RAIL COVER

Specification	
Mortor	Brushless DC motor 100V/200W
Voltage in Operation	AC100V ± 10% 3A 50/60Hz (Depend on local regulation)
Core frame	Materials of door: Dried Oregon pine
Surface materials	Stainless Steel Sheets, Baking finished Steel Sheets and others
Insulation	High tension polyurethane foam injected 50t 60t
Safety devise	Part of door meeting: Tape switch with reversing devise (Not working when doors are opening)
Option	Light switch, two layers of glass (Various type), wireless switch, decorated frame and dew condensation prevention dew condensation prevention
Speed regulation	50~270mm/sec. (Distance in full speed of opening and shutting is possible to adjust in self non step operation system)
Operating environment	Temperature: More than +10 degrees, Humidity: 25~75%
Dimensions (mm)	Maximum dimension: Width=2,500 Height=2,500

- 1 Door rail cover
- 2 Tape switch **
- Wiring joint box
- 4 Two layers glass (Option)
- 5 Push button switch **
- 6 Cabtyre cord **
- 7 Door knob
- 8 Guide plate
- 9 Rubber saddle
- (10) Guide roller
- ① Door frame (Synthetic resin)
- 12 Inner surface materials
- 13 Packing materials
- 14 Door (Polyurethane foam)

Note)

- ★ for Electrical type
- Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.

LIGHTWEIGHT

Electrical & Manual Operation

SINGLE SLIDING INSULATED DOORS

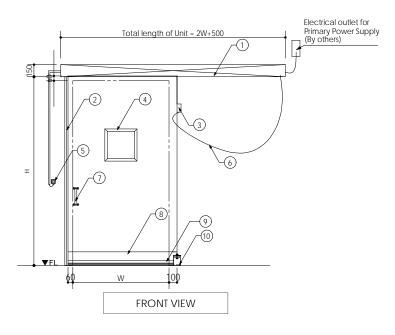
+10℃~

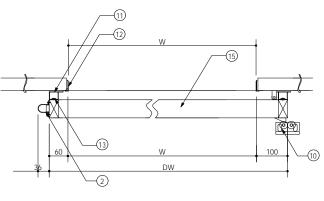


Power-driven method

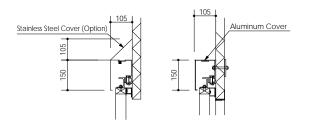


- 1. Brushless DC motor
 - The high-performance and silent Brushless DC (direct current) motor can be mused sound of mortar, and effected smooth opening and shutting.
- 2. The installation of full closing operation system can be equipped at power failure as Emergency response battery circuit (Option) can be equipped.
- 3. Various adjustment function
 Anyone can make each adjusts easily as appliance of adjustment of door opening, closing speed of doors, very low speed, hold timer are equipped t the bottom units.
- 4. Realization of electric power saving
 This unit can be utilized with efficiency according to the electrical power consumption of power source of 100V/200W. (Practicable power supply by the electrical outlet 100 volts)



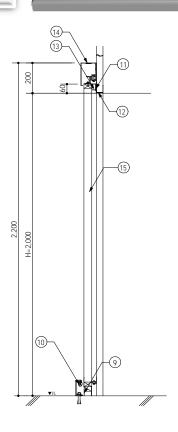


HORIZONTAL SECTION



DETAILS FOR RAIL COVER

Specification	
Mortor	Brushless DC motor 100V/200W
Voltage in Operation	AC100V ± 10% 3A 50/60Hz (Depend on local regulation)
Core frame	Materials of door: Dried Oregon pine
Surface materials	Stainless Steel Sheets, Baking finished Steel Sheets and others
Insulation	High tension polyurethane foam injected 50t 60t
Safety devise	Part of door meeting: Tape switch with reversing devise (Not working when doors are opening)
Option	Light switch, two layers of glass (Various type), wireless switch, decorated frame and dew condensation prevention dew condensation prevention
Speed regulation	50~270mm/sec. (Distance in full speed of opening and shutting is possible to adjust in self non step operation system)
Operating environment	Temperature: More than +10 degrees, Humidity: 25∼75%
Dimensions (mm)	Maximum dimension: Width=1,500 Height=2,500



LONGITUDINAL SECTION

- Door rail cover
- 2 Tape switch *
- Wiring joint box
- 4 Two layers glass (Option)
- 5 Push button switch **
- 6 Cabtyre cord **
- ① Door knob
- 8 Guide plate
- 9 Rubber saddle
- 10 Guide roller
- ① Door frame (Synthetic resin)
- 12 Inner surface materials
- Packing materials
- Space for unit devise
- ① Door (Polyurethane foam)

Note)

- ★ for Electrical type
- Specification and design may be modified unexpectedly.
- Please contact us in case of different specification.



VC Type

Electrical & Manual Operation

DOUBLE SLIDING INSULATED DOORS

+5℃~

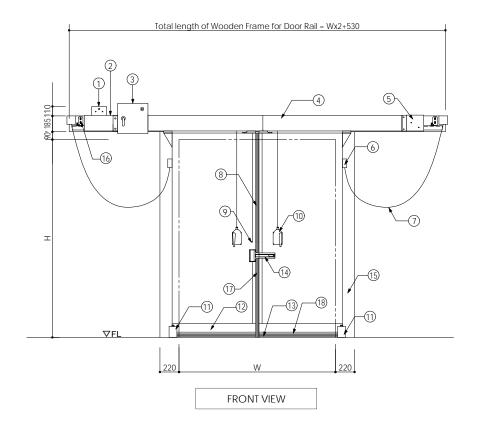


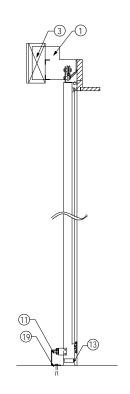
Lightweight type for C3 class cold room

Featur

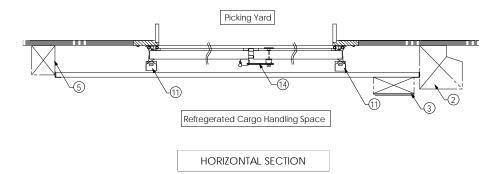


- 1. VC type insulated doors is lightweight type sliding doors which designated conformity with standard for C3 class cold room (-2°C~+10°C).
- 2. The thickness of insulation of insulated doors is divided into three classes, 60mm, 75mm and 100mm thickness of urethane foam, and insulated packing of each insulation is equipped dual structure P type air tide formula, and rubbed dimensions between packing that is till release from comprehension and doors is about 80mm and keep its frictional wear to the minimum.
- 3. The drive motor that is compact and efficient Mitsubishi orthogonal axes geared motors (0.2kW) is equipped, and has both safety and economy. (Inverter is optional equipments)
- 4. Mizuta insulated doors is most suitable for wall panel structure as shock around doors is completely absorbed in time of door opening and closing.





LONGITUDINAL SECTION



- 1 Travel limit box
- ② Geared motors (with brake)
- 3 Control box
- 4 Chain cover
- ⑤ Idler box
- 6 Wiring joint box
- ① Cabtyre cord
- 8 Tape switch
- 9 Push button switch
- Operation Switching Handle (Manual/Electric)

- 1 Guide roller
- 12 Guide plate (double face)
- 13 Rubber saddle (2t)
- 19 Key switch box and plate
- 15 Cock decorative rim (45tx220L)
- 16 Door rail bracket (Up-down adjustment style)
- ${\mathfrak V}$ Packing for door meeting
- 18 Holding plate for doorsill
- 19 Anchor Bolt M12
- ☐ Maximum usable dimension: Width 2,500mm x Height 2,800mm.
- ☐ Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.



VC Type

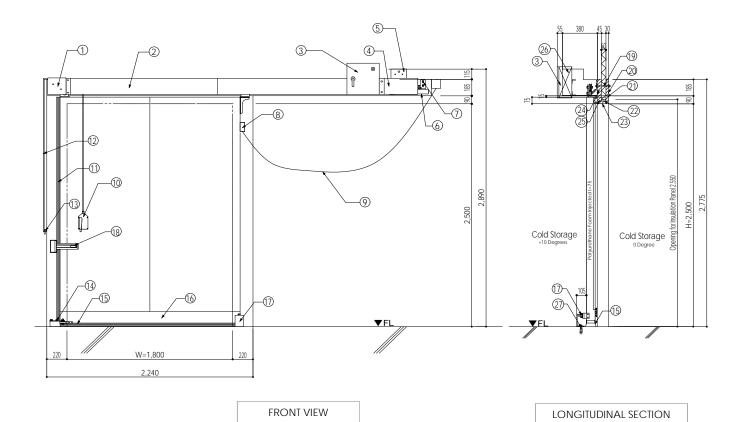
Electrical & Manual Operation

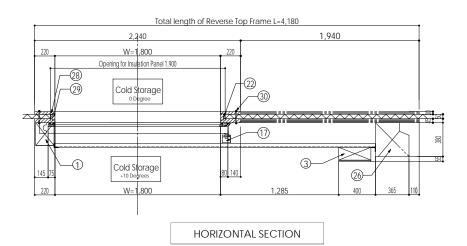
SINGLE SLIDING INSULATED DOORS





Specification	
Mortor	0.2kW=4P, 3 phase 200V, with brake system
Voltage in Operation	24V
Metal Fixtures	Drive case, Idler case, Door rail: Steel materials, Other marable: Galvanizing
Packing	Weather resistance type Neoprene rubber or Oil resistance type rubber
Core frame	Decorated frame: 45mm thickness, Blindfold wall: 30mm thickness,
Cole name	Materials of door: Dried Oregon pine
Surface materials	Stainless Steel Sheets, Various baking finish steel sheets and other materials
Insulation	High tension polyurethane foam injected 60, 75 and 100mm thickness
Safatu davisa	Part of door meeting: Tape switch with reversing devise, Key type switch and unlocking
Safety devise	devise for emergency escape at the other side of doors
Optical Equipments	Door operation warning buzzer, Doors half-opening operation devise,
Optical Equipments	Automatic closing devise and various optical switches.





- 1 Idler box
- (2) Chain Cover
- 3 Control box
- Geared motors (with brake)
- 5 Travel limit box
- 6 Door rail
- Door rail bracket
- 8 Wiring Joint Box
- 9 Cabtyre cord
- 10 Operation switching handle (Manual/Electric)
- 11 Tape switch
- 12 PVC Pipe
- 13 Push button switch
- (14) Guide roller
- 15 Rubber saddle

- 6 Guide plate
- Guide Roller
- (18) Key switch box and plate
- 19 Stainless Bolt M12
- 20 Rear door frame 30x185 t=0.8 (SUS-304) laminated
- Rear door frame 30x90 t=0.8 (SUS-304) laminated
- 22 Injected polyurethane foam
- 23 Door jamb 30x70 t=0.8 (SUS-304) No.4 laminated
- 24) Wood base for door rail 45x185 t=0.8 (SUS-304) No.4 laminated
- 25 Cock decorative rim 45x90 t=0.8 (SUS-304) No.4 laminated
- 26 Drive space
- 27 Anchor Bolt M12
- 28 Rear door frame 30x220 t=0.8 (SUS-304) laminated
- 29 Rear door frame 30x70 t=0.8 (SUS-304) laminated
- 30 Stainless bolt M10
- ☐ Maximum usable dimension: Width 1,500mm x Height 2,800mm.
- $\hfill \square$ Specification and design may be modified unexpectedly.
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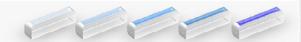
VL Type

Electrical & Manual Operation

DOUBLE SLIDING INSULATED DOOR\$ -40°C~+5°C



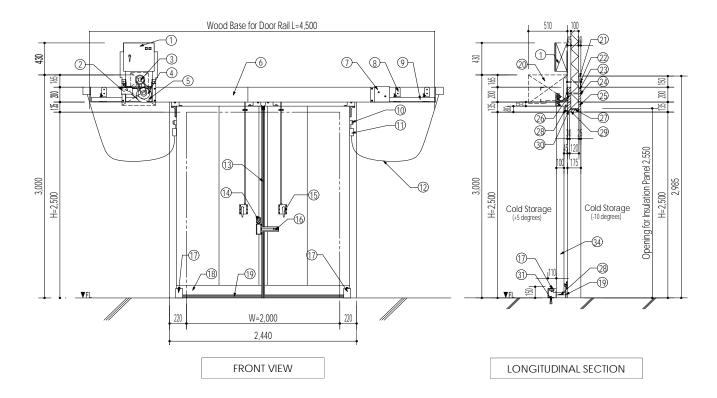
VL type Insulated doors

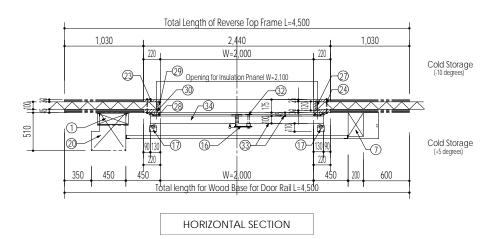


■ Infallible confidentiality

The packing of VL type insulated doors are compressed by the self weight of insulated doors by the function of notch that is inclination processing into the end of door rail the place where is just before the doors closing (about 100mm on this side), and door automatically falls into the oblique 45 degrees to the direction of door

And, doors are fixed by the latch installed to door rail, and constantly compressed packing. In the way described above, airtighness can be maintained constantly in the same condition as the compressive force to packing is caused by the weight of doors body and no mechanical forcible.





- 1 Control box
- 2 Travel limit box
- 3 Geared motors (with brake) 0.4kw
- 4) Drive space cover
- 5 Reduction gear 1:50
- 6 Chain cover
- 7 Idler box
- 8 Door rail bracket SS400
- 9 Door rail
- 10 Thermostat
- Wiring joint box
- 12 Cabtyre cord
- (13) Tape switch
- 14 Push button switch for partial opening (Option)
- 15 Operation switching handle (Manual/Electric)
- (16) Key switch box and plate
- 17 Guide roller

- 18 Guide plate
- 19 Rubber saddle
- 20 Drive space
- (21) Rear door frame 30x150 t=0.8 (SUS-304) laminated
- 22 Stainless bolt M10
- 23 Rear door frame 30x200 t=0.8 (SUS-304) laminated
- 24) Insulated bolt M16
- 25 Rear door frame 30x135 t=0.8 (SUS-304) laminated
- Wood base for door rail 45x200 t=0.8 (SUS-304) No.4laminated
- 27 Injected polyurethane foam
- 28 Defrosting heater
- 29 Door jamb 30x120 t=0.8 (SUS-304) No.4laminated
- 30 Cock decorative rim 45x220 t=0.8 (SUS-304) No.4laminated
- 31 Anchor bolt M12
- 32 Evacuation handle
- 33 Stainless steel sheet t=.08
- 34 Injected polyurethane foam t=100
- ☐ Maximum usable dimension: Width 1,500mm x Height 2,800mm.
- ☐ Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.



VL Type

Electrical & Manual Operation

SINGLE SLIDING INSULATED DOORS -40°C~+5°C



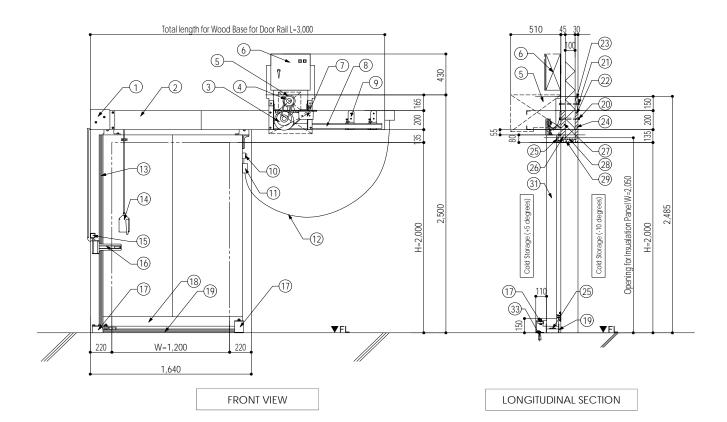
Insulated doors for Ultra low temperature cold

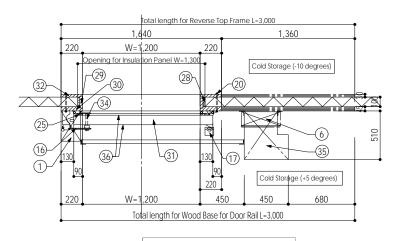


■ Infallible confidentiality

The packing of VL type insulated doors are compressed by the self weight of insulated doors by the function of notch that is inclination processing into the end of door rail the place where is just before the doors closing (about 100mm on this side), and door automatically falls into the oblique 45 degrees to the direction of door

And, doors are fixed by the latch installed to door rail, and constantly compressed packing. In the way described above, airtighness can be maintained constantly in the same condition as the compressive force to packing is caused by the weight of doors body and no mechanical forcible.





HORIZONTAL SECTION

- Idler box
- Chain cover
- Reduction gear
- Geared motors (with brake) 0.4kw
- Drive space cover
- Control box
- 2345678910112 Travel limit box
- Door rail SS400
- Door rail bracket SS400
- Thermostat
- Wiring joint box
- Cabtyre cord
- Tape switch
- Operation switching handle (Manual/Electric)
- Push button switch for partial opening (Option)
- 16 Key switch box and plate
- (17) Guide roller
- (18) Guide plate

- Rubber saddle
- Insulated bolt M16
- Stainless bolt M10
- Rear door frame 30x200 t=0.8 (SUS-304) laminated
- 23 24 Rear door frame 30x150 t=0.8 (SUS-304) laminated
- Rear door frame 30x135 t=0.8 (SUS-304) laminated
- Defrosting heater
- Cock decorative rim 45x135 t=0.8 (SUS-304) No.4 laminated
- Wood base for door rail 45x200 t=0.8 (SUS-304) No.4 laminated
- Injected polyurethane foam
- Door jamb 30x120 t=0.8 (SUS-304) No.4 laminated
- Cock decorative rim 45x220 t=0.8 (SUS-304) No.4 laminated
- 31 Injected polyurethane foam t=100
- (32) Rear door frame 30x220 t=0.8 (SUS-304) laminated
- Anchor bolt M12
- (34) Evacuation handle
- Drive space
- Stainless steel sheet t=.08
- ☐ Maximum usable dimension: Width 3,000mm x Height 4,000mm.
- Specification and design may be modified unexpectedly.
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VL Type

Electrical & Manual Operation

DOUBLE SLIDING INSULATED DOORS

-40℃~+5℃

Fire protection



Fire protection type Insulated doors (Double

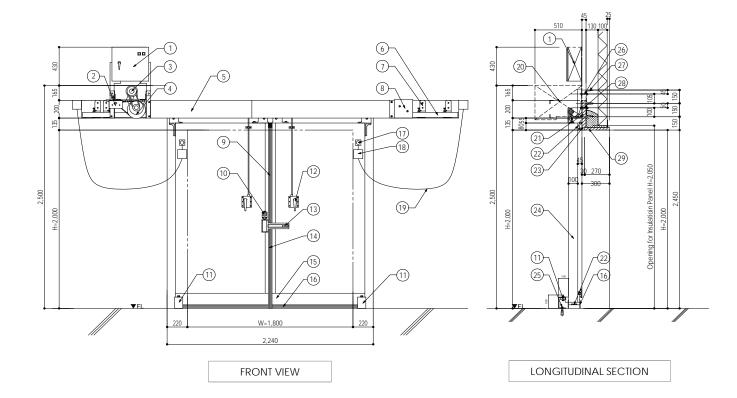


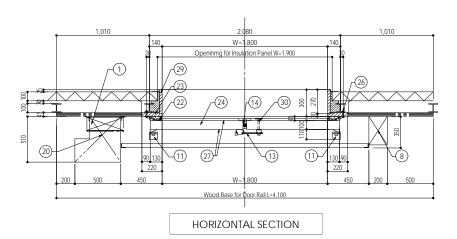
■ Structure

VL type insulated doors fulfills for the function of fire protection at fire retarding division . The structure of VL type insulated doors is effective to shut out fire from clearance gap in the doors in case of fire by using for the heating expanded insulation (two hours fireproof qualified product) that is expanded by heating of surrounding packing with utilization of both facings of steel sheets.

Opening and Closing Function

VL type doors are closed instantly by interlocking with fire alarm signal or smoke detection signal. And doors are closed automatically by balance weight in case of power cut. After power cut recovery, doors are put to





- ① Control box
- 2 Travel limit box
- 3 Mortor 200V 0.4kw (Depend on local condition)
- 4 Electro-magnetic clutches
- 5 Chain cover
- 6 Door rail
- Bracket for door rail
- 8 Idler box
- 9 Tape switch
- 10 Push button switch for half-opening
- ① Guide roller
- ① Operation switching handle (Manual/Electric)
- 13 Padlocking
- (14) Heating and foaming leavening agent
- 15 Guide plate
- ♦ Maximum Effective Dimension
 - ... Width 4,000mm x Height 4,000mm
- ☐ Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.

- 16 Rubber saddle
- 17) Thermostat
- (18) Joint box
- (19) Cabtyre cord
- 20 Drive space
- (21) Wood base for door rail 45x200 t=0.8 (SUS-304) No.4 laminated
- 22 Defrosting heater
- 23 Cock decorative rim 45x135 t=0.8 (SUS-304) No.4 laminated
- 24 Injected polyurethane foam t=100
- 25 Anchor bolt M12
- 26 Stainless bolt M10
- 27 Baked color coated steel plate Laminated to the both sides
- 28 Stainless bolt M12
- 29 Door jamb 30x270 t=0.8 (SUS-304) No.4 laminated
- 30 Evacuation handle



VL Type

Electrical & Manual Operation

SINGLE SLIDING INSULATED DOORS

-40℃~+5°c

Fire protection



Fire protection type Insulated doors (Single

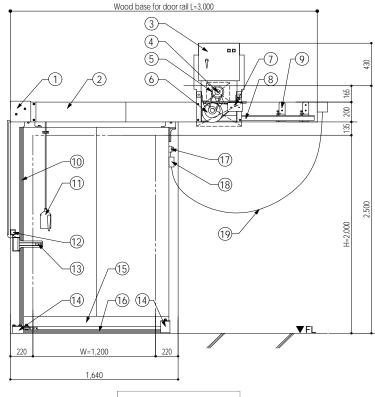


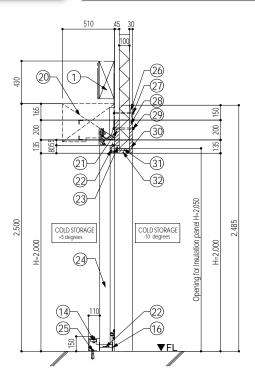
■ Structure

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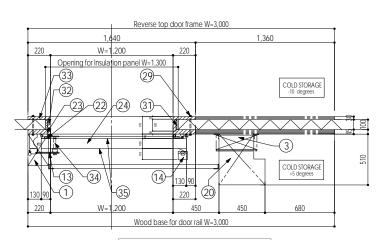
Opening and Closing Function

VL type doors are closed instantly by interlocking with fire alarm signal or smoke detection signal. And doors are losed automatically by balance weight in case of power cut. After power cut recovery, doors are put to use as a normal insulated doors.





LONGITUDINAL SECTION



HORIZONTAL SECTION

- 1 Idler box
- 2 Chain cover
- (3) Control box
- 4 Mortor 200V 0.4kw (Depend on local condition)
- 5 Drive division cover (Option)
- 6 Reduction gear 1:50
- Travel limit box
- 8 Stainless door rail (SS-400)
- 9 Stainless bracket for door rail (SS-400)
- 10) Tape switch
- ① Operation switching handle (Manual/Electric)
- 12 Push button switch for half-opening (Option)
- (13) Padlocking
- 14 Guide roller
- (15) Guide plate
- 16 Rubber doorsill
- 17 Thermostat
- 18 Joint box
- ◆ Maximum Effective Dimension
 - ... Width 2,500mm x Height 4,000mm

- 19 Cabtyre cord
- 20 Drive space
- (21) Wood base for door rail 45x200 t=0.8 (SUS-304) No.4 laminated
- 22 Defrosting heater
- Cock decorative rim 45x135 t=0.8 (SUS-304) No.4 laminated
- 24 Injected polyurethane foam t=100
- 25) Anchor bolt M12
- Rear door frame 30x150 t=0.8 L=500 (SUS-304) laminated
- 27 Stainless bolt M10
- 28 Rear door frame Frame 30x200 t=0.8 (SUS-304) laminated
- (29) Insulated bolt M16
- Rear door frame 30x135 t=0.8 (SUS-304) laminated
- (31) Injected heat insulating material
- 32 Door jamb 30x120 t=0.8 (SUS-304) No.4 laminated
- Rear door framee 30x220 t=0.8 (SUS-304) laminated
- 34 Evacuation Handle
- 35 Baked color coated steel plate Laminated to the both sides
- ☐ Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.



SPECIAL Type

Electrical & Manual Operation

DOUBLE SLIDING PAIR INSULATED DOORS

-30℃**~**+5℃





- ☐ Maximum usable dimension: Width 3,750mm x Height 4,000mm.
 - Maximum dimension of large size of door: Width 3,000mm (inner measurement) Maximum dimension of small size of door: Width 750mm (inner measurement)
 - ♦ However, dimension of large size of door shall be double of dimension of small size of door
- Doors opening and closing speed

1m distance per from four to six seconds (depend on width of door dimension of both doors)

■ Converter drive position

Intermediate sprocket two speed transmission system

☐ Specification and design may be modified unexpectedly.

Top & Bottom

Electrical & Manual Operation (3 & 4 way door frame)

VERTICAL SLIDING INSULATED

-10℃~





Vertical Sliding Insulated Doors

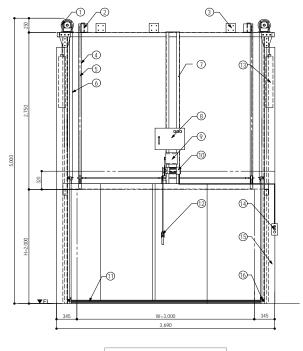


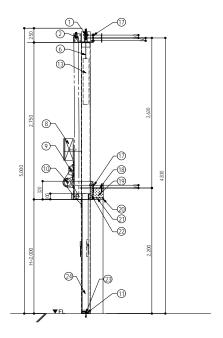
□ Feature

Vertical sliding insulated doors are opened and closed by the signal instruction from conveyer delivery line in rack house, and cope with the extensive needs that is from normal to F class as to the temperature of cold storage, and to be useful unmanned conveyance by the computer control and cope with the building without enough bilateral space as ordinary door opening and closing function is possible.

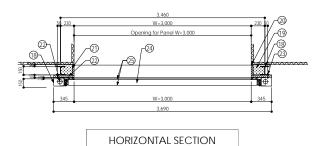
□ Safety

The structure of vertical sliding insulated doors is sufficiently considered for the hanging strength with passing for door opening and closing testing. And the reversing switch is installed the bottom of doors due to not be caught in case of electrical operation. The weight of door is adjusted by balance weight in case of manual operation.





LONGITUDINAL SECTION



- ① Sprocket 210 ϕ
- 2 Upper Idler
- 3 Overturning protection
- (4) Chain cover
- (5) Drive chain
- 6 Hanging chain
- Steel structural for drive division
- (8) Control box
- (9) Travel limit box
- (10) Mortor 200V 0.4kw
- (11) Tape switch
- (13) Balance weight

14 Selector switch (Manual/Interlocking)

- 15 Weight cover 16 Guide roller
- 17) Plating bolt M12
- (18) Balance weight cover
- (19) Injected heat insulating material (By others)
- 20 Sealing (By others)
- 21) Door jamb 30x185 baked color coated steel plate
- 22 Cock decorative rim 45x345 baked color coated steel plate
- 23 Anchor bolt M12
- 24 Injected polyurethane foam t=100
- Operation switching handle (Manual/Electric)
 Baked color coated steel plate laminated to the both sides

◆ Method of Door opening and closing

Full closing and opening by the conveyor conjunction system and independent closing and opening by the conveyor conjunction by Push button (The operation of the conveyor conjunction system and independent closing and opening shall be thrown a switch by the on-off switch on the control; box

◆ Closing Speed

5.2sec/m (50c/s) 4.9sec/m (60c/s) (without consideration of Packing and Sprocket Resistance)

◆ Motive Power

200V 3ph 0.4kw (Without power capacity of Defrosting Heater) (Depend on local regulation)

- Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.

SPECIAL Type

Electrical & Manual Operation

THREE PIECES VERTICAL SLIDING INSULATED DOORS

-25℃~+5℃





Feature



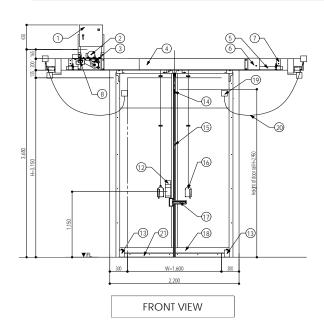
This Insulated door is put to use in case of without enough upper and lower space. The doors are stored with folding three boards by guide frame in case of door opening, and is put to use by manual operation so as it's possible to adjust for the weight of doors by balance weight. This insulated doors is put to use widely so as it's possible to be equipped heater devise, and is put to use for rack house by the interlocking device with conveyor line.

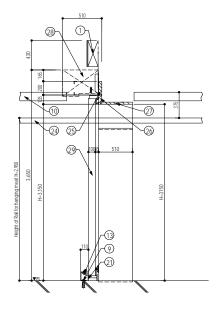
LIVESTOCK

Electrical & Manual Operation

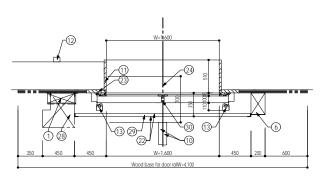
DOUBLE SLIDING INSULATED DOORS

Drafting and Specifications





LONGITUDINAL SECTION



HORIZONTAL SECTION

- Control box
- 2 Mortor 200V 0.4kw (Depend on local condition)
- 3 Electro-magnetic clutches
- (4) Chain cover
- 5 Door rail
- 6 Idler box
- Bracket for door rail
- (8) Travel limit box
- 9 Anchor bolt M12
- 10 Joist for hanging of meat (By others)
- (11) Door jamb 30x480 t=0.8 (SUS-304) No.4 laminated
- 12 Cut sensor
- (13) Guide roller
- Hanging rail for meat (FB-12x75)
- 15) Tape switch

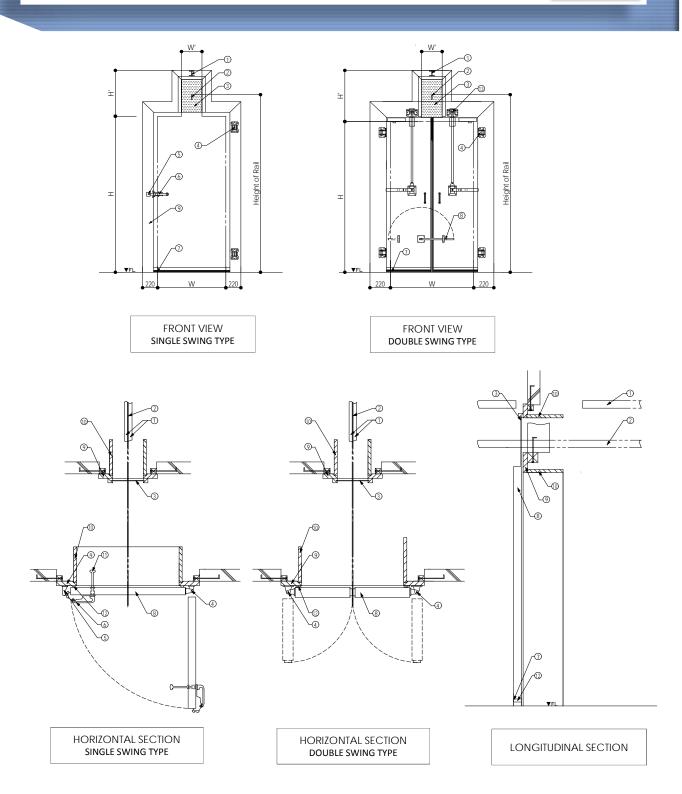
- (Manual/Electric)
- 17) Padlocking
- (18) Guide plate
- 19 Joint box
- 20 Cabtyre cord
- 21 Cover of rubber saddle
- 22 Stainless steel plate (t=0.8 SUS304) laminated to the both sides
- 23 Cock decorative rim 45x300 t=0.8 (SUS-304) No.4 laminated
- 24 Rail for hanging of meat FB-12x75 (By others)
- Wood base for door rail 45x200 t=0.8 (SUS-304) No.4 laminated
- 26 Cock decorative rim 45x135 t=0.8 (SUS-304) No.4 laminated
- 27 Door jamb 30x480 t=0.8 (SUS-304) No.4 laminated
- 28 Drive space
- 29 Injected polyurethane foam t=100
- 30 Packing for door meeting (Heating and foaming leavening agent)
- \spadesuit Maximum and Minimum Dimension of Production \cdots Width 1,400 to 2,500 / Height 2,500 to 4,000
- ◆ Closing Speed···6m/1sec. (standard) ※ It will be subject to change if the width of door is extremely big (small).
- ◆ Thickness of Insulation…t=100 and 125 by injected
- ◆ Door rail····Reinforcement of Door rail bracket
- ◆ Door is always open and close smoothly, so as center of pulley of hanging fittings shall leave much space against the width of door.
- ☐ Total length of Wood base for door rail may be modified if the width of door is extremely narrow relative to the height of door.
- ☐ Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.

LIVESTOCK

Manual Operation

SINGLE & DOUBLE SWING OVERLAP INSULATED DOORS

Drafting and Specifications



- 1) Joint for hanging of meat (6)
- 2 Rail for hanging of meat 7
- 3 Black rubber Sheet
- 3 Black Hinge
- 5 Strike plate
- 6) Interlocking fashner
- (7) Rubber saddle packing
- 8 Swing ratch
- Cock decorative rim
- 10 Door jamb
- (11) Push bar
- Defrost heater (100V) *
- 13 Upper strike steel fitting
- ◆ Maximum usable dimension: Width 1,400mm
- ◆ Door thickness: 75, 100, 125 and 150mm
- ◆ Facing material: Various stainless steel plate and baking finished Steel Sheets.
- ☐ Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.
- ※ Option (Depend on local condition)

OL Type

Manual Operation

DOUBLE SWING OVERLAP INSULATED DOORS

-60℃**~**+5℃

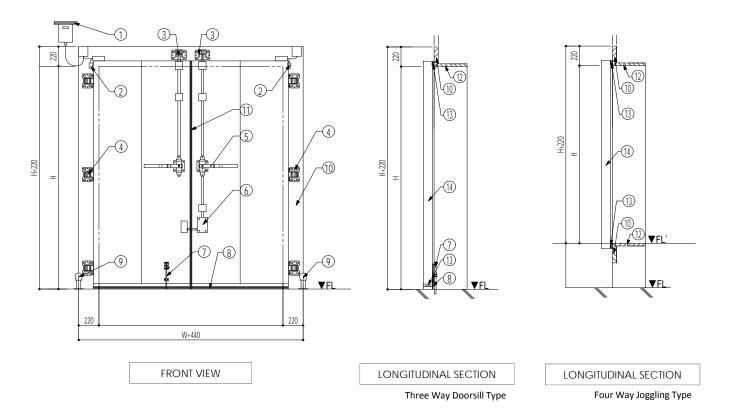


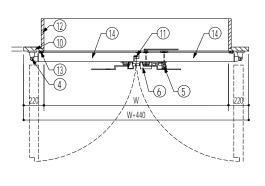
Feature



This Insulated door is put to use for the doorway of people in case of wide span of frontage. It's possible to put to use only one side as it is gatefold and left and right is male and female. It is rich in airtight of door meeting, and is possible to release ratch as it is put use sliding handle for the door opening and closing. And it can be use for ultralow temperature cold storage as it is possible to install heating devise (Voltage is depend on the local electrical condition). It can be use for the purpose of prevention of lapse of memory of door locking and for the location of fire retarding division as it is possible to install self-closing function (order coordination) by door closer as an optional installation.

Drafting and Specifications





HORIZONTAL SECTION

- 1 Breaker box **
- 2 Thermostat **
- 3 Upper part bracket metal
- 4 Hinge
- 5 Slide type fastener
- 6 Upper part fastener
- 7 Flush bolts

- 8 Rubber saddle (2t)
- 9 Door stop cushion rubber
- 10 Cock decorative rim (Decorated face bar)
- 11 Rubber packing for door meeting
- 12 Door jamb (Decorated face bar)
- 13 Defrosting heater
- 14 Door body (Polyurethane foam)
- ☐ Maximum usable dimension: Width 3,000mm x Height4,000mm.
- ☐ Specification and design may be modified unexpectedly.
- * Please contact us in case of different specification.
- # for Option (In case of with Heater)

OL Type

Manual Operation

SINGLE SWING OVERLAP INSULATED DOORS

-60℃**~**+5℃

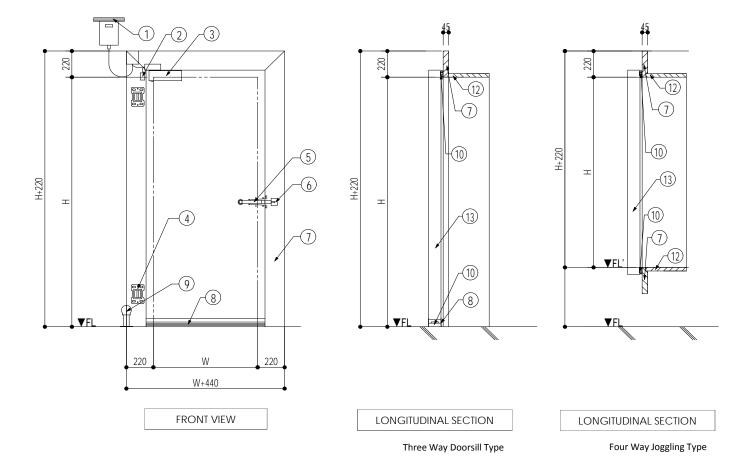


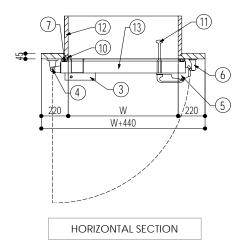


Feature



This Insulated door is mainly put to use for the doorway of people in the cold storage warehouse, and is fertile airtighness with utilization of special packing. And this insulated door is put to use for freezing storage warehouse as it's possible to install 100 voltage specified heater (depend on local condition). This insulated door is put to use for the prevention of forgetfulness of door closing by the installation of automatic closing function as an optional installation.





- 1 Breaker box **
- 2 Thermostat **
- 3 Door closer (Option)
- 4 Hinge
- 5 Slide type fastener
- 6 Upper part fastener
- Ock decorative rim (Decorated Face Bar)
- 8 Rubber saddle (2t)
- 9 Door stop cushion rubber
- 10 Defrosting heater
- 11) Push bar
- 12 Door jamb (Decorated face bar)
- 13 Door body (Polyurethane foam)
- ☐ Maximum usable dimension: Width 1,200mm x Height 2,500mm.
- ☐ Specification and design may be modified unexpectedly.
- $\boldsymbol{\ast}$ Please contact us in case of different specification.
- for Option (In case of with Heater)

LIGHTWEIGHT

Manual Operation

SINGLE & DOUBLE OVERLAP INSULATED

+5℃~





Feature



This is overlap type light weight Insulated door, and it can be use for processing room of normal temperature

panel door. And it can be use for ceiling access panel as it has few vibration, and it is very light with a density.

It is so smart to the eye!!

VARIOUS SWITCH

We meet your request not anything these



PULL SWITCH
**HEATER EQUIPED TYPE IS AVAILABLE



PUSH-BUTTON SWITCH (WATERPROOF)



CUT SENSOR (FINGER INDICATED TYPE)



OPTICAL SENSER



FOODLIGHT TOKO MAGIC EYE



OPTICAL RECEIVER TOKO MAGIC EYE

STANDARD TYPE

Door control system by pull switch installed to the location of front and back area of ceiling of insulated door (The location of Pull switch slall be installed within 3meter distance from doors)

AUTOMATIC SHUTTING CONTROL DEVISE

Door will be closing automatically concurrently with warning buzzer saunds, after a few seconds, by the adjustment of timer with built-in timer devise to the standard type.

SEMICIVILIZED DOOR OPENING DEVISE

In addition to Standard type, this is a devise that stops at the position of the door half-open by Push button switch that installed to the surface of door body.

BURGLARY PREVENTION CIRCUIT

It will be reported for any burglary by the sound of warning buzzer or bell at a predetermined position when the locked key of door is destroyed, and door is opened. (Any devises beside of built-in ciecuit should be separately)

OPTICAL SWITCH FOR ULTRA LOW TEMPERATURE

It's impossibe to operate by drawstring beacause freezing resistant capsul type forklift puts is used for indoor work of ultralow temperature of minus 50 degrees, the operation of door opening and closing can be performed from the inside of capusule by the adption of optical switch for ultra low temperature.

COMPLETE ALTERNANCE DOOR CONTROL SYSTEM

In case of double-entry doors for ultra low temperature, a variety of disorders can occur with the intrusion of fresh air to the inside of cild storage by the opening of both doors, to prevent a variety of disorders, this is the opening and closing system that both doors shoud be performed automatically reciprocal opening and closing movement.

OTHERS

As for mobile rack system whrehouse (computer control system), it will perform the door opening and closing operation and the built-in predefined of signal of anomalous behaviour.

Furthermore, please contact our staff for further detais.

OTHER PREAPARATELY EQUIPMENTS

OVERSLIDING DOOR / SHEET DOOR / VINYL STRIP CURTAIN / SWING DOOR



ARMOR DOCK SHELTER

Contribute to the Advancement of Quality Control and Saving Energy

Armor Dock Shelter is Airtight Apparatus which should be superior to the cushioning properties that seals the gap between a truck and receiving and shipping space, Armor Dock Shelter is mainly composed of the selected foam insulation and nonconventional processing heavy-duty sheet, and is in use the best quality materials that is designed to sufficiently withstand contacts and friction with truck body to be in use by repetition.

Armor Dock Shelter contributes ideal environment to be in effect definitely by way of now indispensable necessary articles to the quality protection and custody of products.







Examples of Construction of Armor Dock Shelter

Characteristic of Armor Dock Shelter



To prevent penetration of outside air to indoors

flowing out of the cold air in the room to outside during loading and unloading of products. It can be practice further improvements of the quality protection and significant cost saving by the



To prevent invasion of noxious insect and intrusion of dust, and show outstanding effects to insect proof and dust proof.



It can be in use widely different-sized truck that

from light weight track to heavy duty track.



It can practice environmental manipulation of unsparing loading operation during night and early morning, and improve work efficiency with interception of cold wind and heavy rain.

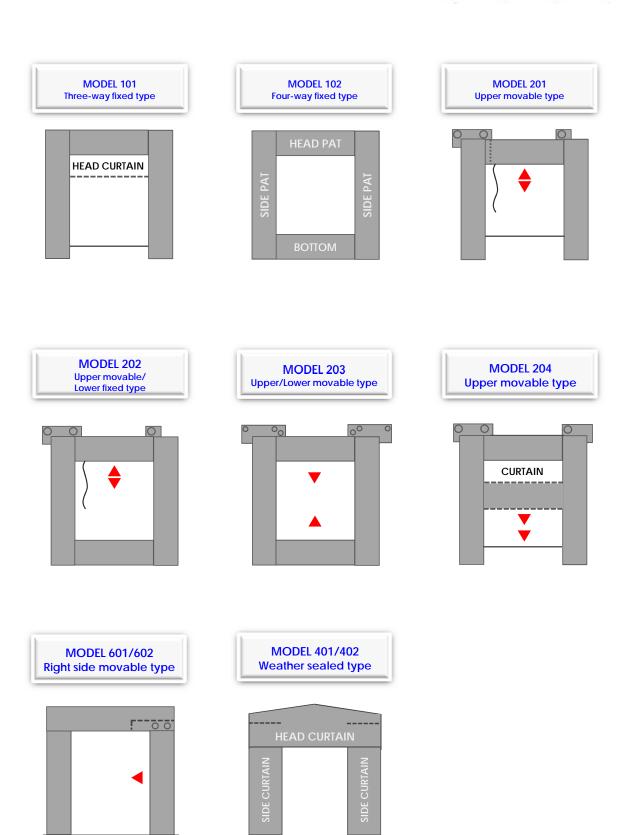
Principal Purposes

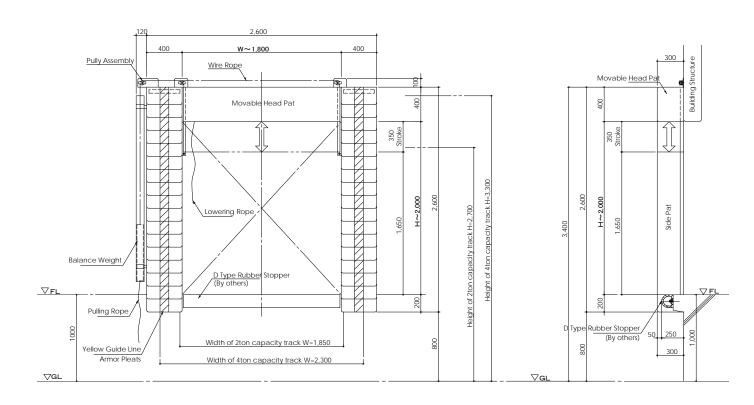
- Section Food manufacturing and processing factory
- Supermarket distribution center
- Supply center of school meals
- ☼ Medical supplies and pharmaceutical factory
 ☼ Special paper factory
- Refrigerators and freezers
- Grocery distribution center
- Food distribution center
- Bread factory
- Cosmetics factory
- Other general factory



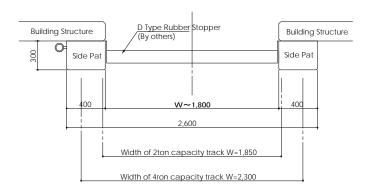
ARMOR DOCK SHELTER

You may select a wide variety of Model





LONGITUDINAL SECTION



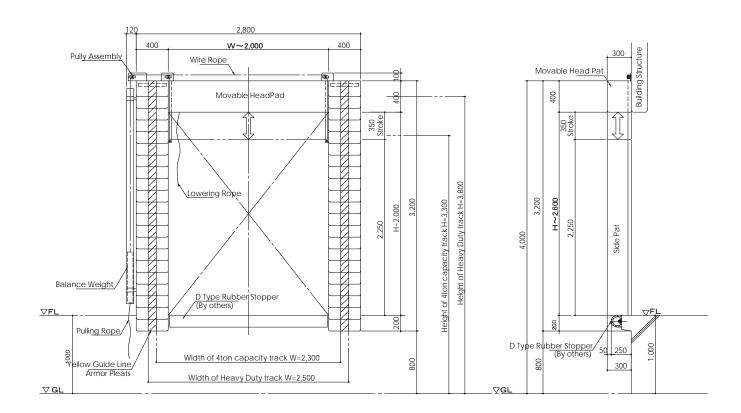
HORIZONTAL SECTION

MODEL 201 UPPER MOVABLE TYPE

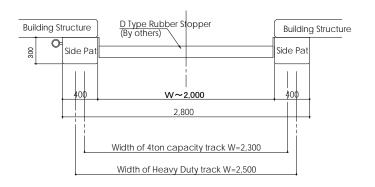
Width	W=1,800 x H=2,000
Head Pat	400 x 300 x 1,800
Side Pat	400 x 300 x 2,600
Hardware	Zinc Coating

Movable Stroke 350

X The stated width and height of from 2ton to 4ton capacity track are reference dimensions. Actual dimensions are not subject depend on models and manufactures.



LONGITUDINAL SECTION



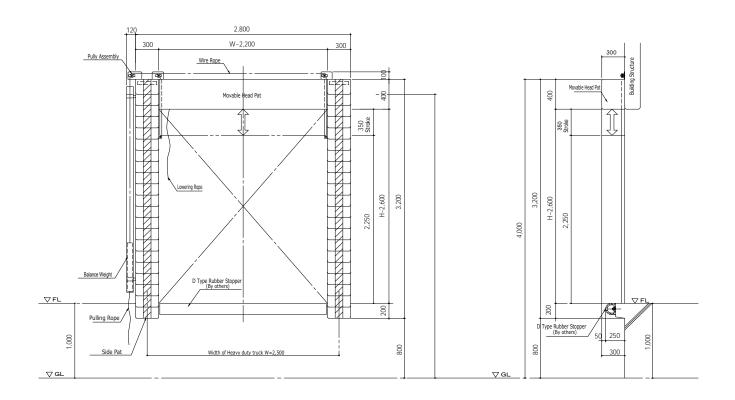
HORIZONTAL SECTION

MODEL 201 UPPER MOVABLE TYPE

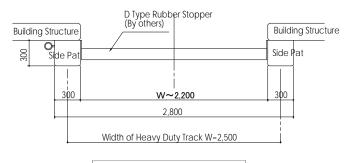
Width	W=2,000 x H=2,600
Head Pat	400 x 300 x 2,000
Side Pat	400 x 300 x 3,200
Hardware	Zinc Coating

Movable Stroke 350

** The stated width and height of 4ton capacity track and heavy duty track are reference dimensions. Actual dimensions are not subject depend on models and manufactures.



LONGITUDINAL SECTION



HORIZONTAL SECTION

MODEL 201 UPPER MOVABLE TYPE

Width	W=2,200 x H=2,600
Head Pat	400 x 300 x 2,200
Side Pat	300 x 300 x 3,200
Hardware	Zinc Coating

Movable Stroke 350

※ The stated width and height of heavy duty track are reference dimensions. Actual dimensions are not subject depend on models and manufactures.



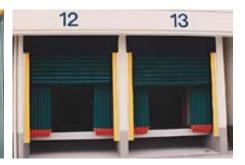
SUPER AIR SHELTER

Contribute to the Advancement of Quality Control and Saving Energy

Super Air Shelter is superior to insulation effectiveness, dust proof and insect proof, and the most suitable for the freezing warehouse, refrigerated warehouse and food processing factory to be required severe temperature control for twenty four hours so as to minimize for energy loss.







Differences to Armor Dock Shelter

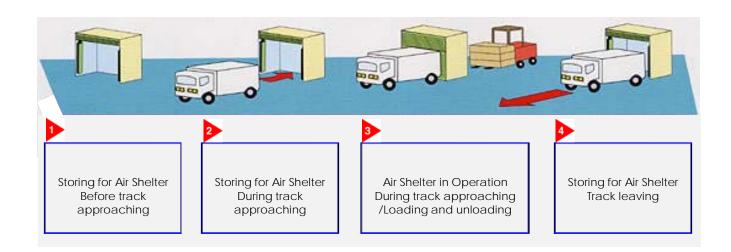


- 😵 Air Shelter dose not impede direct loading and unloading by forklift so as to seal flank between building/facility and track
- Air Shelter will most likely fit into the unevenness of the track so as to inflate by the air blast of electric fan, and to be required power supplied to the motor and fan.
- t is necessary to construct wall jutted out front of building/facility so as to install seal portion.

Method of Operation



Do the loading and unloading after track approaching to the storage and retrieval and operate Air Shelter under condition of blockade of open air, and will depart the track after completing operation with storing of Air Shelter.





SUPER AIR SHELTER

You may select a wide variety of Model

IGA Type



Feature

The most basic model The superior durability

Standard Type



Feature

The most common performances Availability of heterogeneous track size

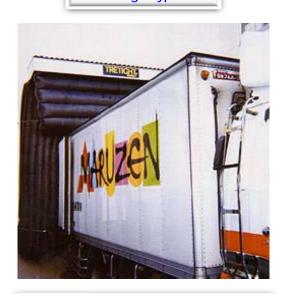
Roll Curtain Type



Feature

Availability of heterogeneous track size Inexpensive by comparison with others

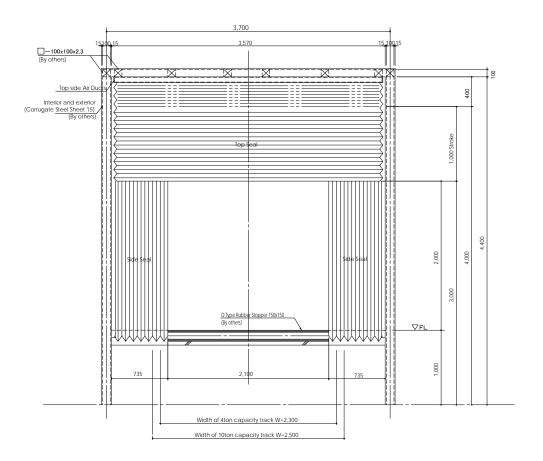
Tretight Type



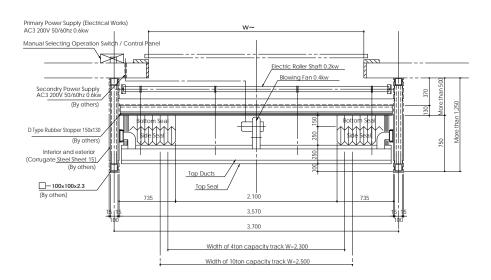
Feature

Unnecessary wall jutted out to be installed Imported products

STANDARD TYPE / REFERENCE DRAWING

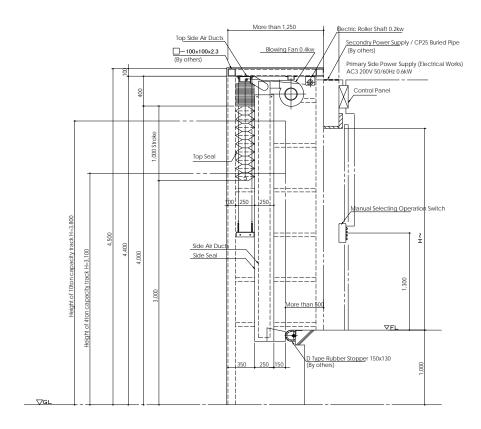


FRONT VIEW



HORIZONTAL SECTION

STANDARD TYPE / REFERENCE DRAWING



LONGITUDINAL SECTION

SUPER AIR SHELTER FOR 4TON - 10TON CAPACITY TRACK

Model	Standard Type
Top Seal	W=250 x L=3,510
Side Seal	W=250 x L=3,300
Power Source	АС3Ф 200V 50/60hz 0.6kw

* The voltage can be corresponded to the local specification. (ex. 380V/420V)

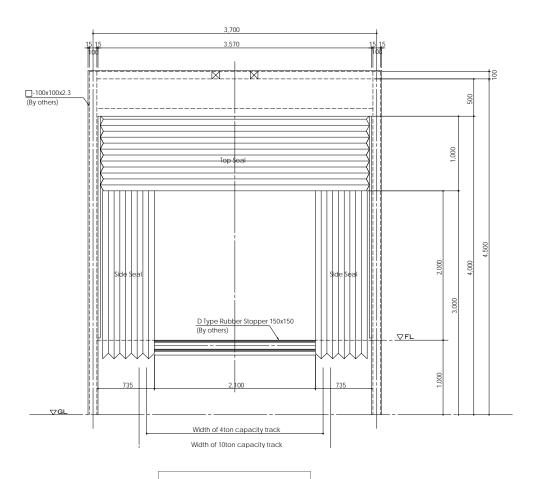
COLOR OF SHEET OF SUPER AIR SHELTER

Top Seal	Black
Side Seal	Black
Bottom Seal	Black

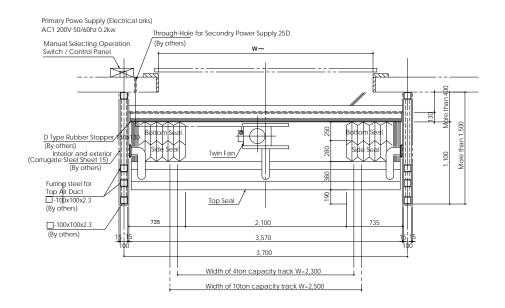
*X The stated width and height are reference dimensions. Actual dimensions are not subject depend on models and manufactures.

Drafting and Specifications

IGA TYPE REFERENCE DRAWING

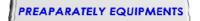


FRONT VIEW

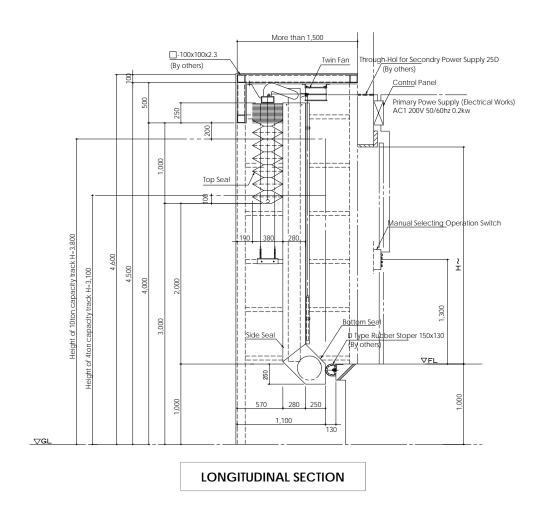


HORIZONTAL SECTION

Drafting and Specifications



IGA TYPE REFERENCE DRAWING



SUPER AIR SHELTER FOR 4TON - 10TON CAPACITY TRACK

Model	IGA Type
Top Seal	W=380 x L=3,510
Side Seal	W=280 x L=3,500
Powe Source	AC1Φ 200V 50/60hz 0.2kw

* The voltage can be corresponded to the local specification. (ex. 380V/420V)

COLOR OF SHEET OF SUPER AIR SHELTER

Top Seal	Green
Side Seal	Green
Bottom Seal	Orange

*X The stated width and height are reference dimensions. Actual dimensions are not subject depend on models and manufactures.

COMPANY PROFILE

Names MIZUTA Co.,LTD.

4-1, 4 Choome, Oosugi, Edogawa-ku, Tokyo 132-0022, Japan Head office

Tel. +81(0)3-3653-1014 (Main) Fax +81(0)3-3653-1045

Founded August 16, 2001

Capital 10,000,000 Japanese Yen

Planning and Designing, Production, Installation and Maintenance for

the various Insulated Door and Preparatory equipment's

License Contractor's License issued by the Minister of Ministry of Land,

Infrastructure, Transport and Tourism: (Standard-18) No. 19442

Number of Employees 23 persons

Number of qualified

Tools, Facilities and

Equipment's for Factory

Qualified architect of the second class: 1 person

person

Qualified construction management of the second class: 1 person

Qualified registered electrician of the second class: 5 persons

Main Financing Bank

The Bank of Tokyo-Mitsubishi UFJ, Ltd, Komatsugawa Branch

The 77 Bank, Ltd. Oogimachi Branch

Universal wood lathes (AMADA) 1 No
Bending machine (AMADA) 1 No
Shearing machine (AMADA) 1 No
Conner shear (AMADA) 1 No
Punching press (TOYOKOUKI) 1 No
Argon-welding machine 1 No

Argon-welding machine I No Arc-welding machine I No Iron worker (AMADA) I No

8-69, Rokucyoo-nome Minami-machi, Wakabayashi-ku,

Sendai Branch Sendai, Miyagi, Japan

Offices Tel. +81-(0)22-287-4161 Fax. +81-(0)22-287-4171

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368, Nishi Yotsuya otsu, Gosen, Niigata, Japan

Tel. +81-(0)250-42-3131 Fax. +81-(0)250-42-3039

MIZUTA 19/146 Moo 7 Bangna-Trad Road, Km. 17.5

Overseas affiliate

(Thailand) Co., LTD.

Bangchanlong, Bangplee, Samutprakarn 10540, Thailand.

Tel. +66-(0)2-312-7876/7 Fax. +66-(0)2-312-7909

Group Companies Ecotec One Co.,LTD.

Moritec Co .,LTD.

Cooperative company

in Thailand

Inter Asia Systems Engineering Cp., LTD.

Maruha Nichiro Logistics Inc. YOKOREI Co., LTD.

Major Costumers

Nichirei Logistics Group Inc.

Tokyo Suisan Terminal Co., LTD.

Tokyo Danchi Reizo Co., LTD. Igarashi Reizo Co., LTD.

Bureau of Economics, Kawasaki City Government

Directors

President Eikichi MIZUTA

Managing Director Masumi YAMAGUCHI

Directors and Director-

General of Operation

Department

Noboru MIZUTA

COMPANY PERFORMANCES

Title of Project

JA Akita Shinsei Kameda Branch

JA Takasu-choo Branch

JA Tendou Nario Branch

JBAC Yamanashi Field Crop

JFE Logistics Corp. Higashioogishima

Aomori Prefecture Fisherman's Cooperative Asociation

Igarashi Reizo Co., Ltd. Shibaura Distribution Center

Igarashi Reizo Co., Ltd.

Ishikari Chilled Distribution Center

Ichimaru Suisan Co., LTD.

Gyouba Shouten

Iwate Canning Co., Ltd.

Iwate Agricultural Cooperative Chiken Foods Co., LTD.

Naigen Suisan Co.,LTD. Naigen Japan

Ootake Shouten Niigata Branch

Oguraya Co., LTD.

ABC Foods Co., LTD.

Ito Shouten Co., LTD.

Okamoto Seihyoo Reizo Koujyoo Co., LTD.

Kanese Sekine Shouten Co.,LTD.

Kamigumi Co., LTD. Yokohama Branch Minamihonmoku Factory

Kyokurei Yamashita Co., LTD. DC New Construction Works

Sato Shoukai Co., LTD.

Sanmasa Shouten Co., LTD.

Sumitomo Warehouse Co., LTD. Yokohama Branch,

Minamihonmoku Factory

Daikokuya Kisan Co., LTD.

Daishou Co., LTD.

NRS Corp. Sodegaura Distribution Center

Nichirei Logistics Funabashi

Nissin Corporation Ooi Wharf Warehouse

Fresh System, Inc. Kooriyama Branch

Marusa Saga Shouten Co., LTD.

Mefure Co., LTD.

Yamagata Meat Corporation Co., LTD. No.1

Yamagata Meat Corporation Co., LTD. No.2

- Kanesan Suisan Co., LTD.
- Kanetomo Ultra Low Teperature Cold Strage

Mr. Yasuho KAMADA

Calpis Co., LTD. Tatebayashi Factory

Central WholesalM market of Economic Affairs Bureau of Kawasaki

City, Nanbu Market

Kewpie Corporation Nakagawara Factory

Konoike Transport Co., LTD. Niigata Distribution Center

Kooriyama Reizo Seihyou Co., LTD.

Goto Shouten

Saihoku Toyo Ice Center

Incorporated Foundation Japan Meat Trade Center

Sapporo Breweries LTD. Shizuoka Factory

Suntory Products LTD. Tennen Ooku Oyama

Shimakura Suisan Co., LTD.

Japan FoodsCo., LTD. Kawasakai Branch

Shouwa Shizuoka Co., LTD.

Shin-Etsu Chemical Co., LTD.

Shinyou Tsuushou (Niigata Wholesale Market)

Suzukiku Shouten

Zen Choushi City Seafoods Processing

Souma

Dailchi Broiler Co., LTD.

Thai Quality Pannel

Takaoka Reizo

Taneichi Tama New

Chikura-choo Nanbu Gyokyou Hanbai Co., LTD.

Chuuou Reito Co., LTD. Funabashi Factory

Chooin Corporation liyama Central Market

Teisan Warehouse Honmoku Wharf

Daily Foods Co., LTD. Nagano Branch

Tokai Mokuzai Sogo Shijo

Tokyo Danchi Reizo

Touhokuseika Co., LTD. Ninnin CA

Note) *: -55°C~-60°C *: -35°C

Title of Project



Touhoku Reizo Co., LTD. Tohoku Nippon Meat Packers, Inc. Toyo Suisan Kaisha, Ltd. Saitama No.2 Factory

- Towada Seika Co., LTD. Niigata Kameda Distribution Center
- Nissan Motor Co., LTD. Technical Center

Nippon Zenyaku Kougyou Co., LTD.

Nippon Express Co., LTD. Kaiun Branch

Nippon White Foam

NRS Corporation YCC Warehouse

NRS Corporation Chiba Warehouse

NRS Corporation Chiyoda Warehouse

Tosoh Logistics Corp.

Toko

Nittobest Corp. Sagae Factory

Fujita Masanori Shouten

Shousei-unyu Co., LTD.

Maruichi Co., LTD.

Maruta Foods Co., LTD.

Maruden Corporation Distribution Service Center

Maruto Marine Co., LTD.

Sento Reizo Co., LTD.

Kitafuku Suisan Co., LTD.

Takeuchi Seika LTD.

COMPANY PERFORMANCES

Title of Project

JA Akita Obako Nakasen No.9

JA Iwaki-mura Chilling Temperature cold Storage for Garlic

JF Japan Fishery Cooperation Shiogama Foods

Aomori Prefectural Fishery Cooperation Minato-machi Frozen Foods

Kyokusho Shokuhin Co., LTD,

Ajinomoto

Abechoo Shooten Co .,LTD.

Agricultural Warehouse for the Ichikawa Family

Agricultural Cooperative Oirase Burdock Warehouse

Ichimatsu Suisan Co., LTD.

Tsujino Co., LTD. Sendai Factory

Ito Shooten Co., LTD.

Kanetomo Co., LTD.

Kitamura Foods Co., LTD. No.5 Factory

Kyokurei Corp. Nakai Distribution Center

Jyuumonji Chicken Company Limited.

Daishou Co., LTD.

Nikou Co., LTD. Funabashi Factory

Nichiriku Co., LTD. Chiba Distribution Center

Futaba Corp. Heiwajima Factory

Fresh System Co., LTD. Kawasaki Factory

Maruha Nichiro Logistics, Inc.

Maruha Nichiro Logistics, Inc. Kawasaki Factory

Kanagawa Meat Processing Center

Kamaishi

Yoshinari & Co.

Kousei Suisan Co., LTD. Kisarazu Factory

Konoike Transport Co., Ltd. Niigata Distribution Center

Sato Unso

Suntory Beverage Co.,LTD. Kanagawa Factory

Sanwa Souko

Showa Reizo

Showa Reizo Todabashi Factory

Showa Reizo Todabashi Distribution Center

Shirai Reizo Co., LTD.

Shinwa Shoji Kaisha Ltd.

Suwa Public Market

Sendai Reizo Souko Co., LTD. No.2 Factory

Soma

Soma Futaba Fisherman's Cooperative Association

Yakult Thailand Co., LTD.

Daiwa Suisan Co., Ltd.

Takagi Tamesada Shooten

Takase & Co. Koufu Branch

Takahashi Susain Co., LTD.

Taishi Food Inc.

Chuuou Kaisan Co., LTD.

Chuugai Unyu Souko Co., LTD. Koyasu Branch

Tokatsu Foods Co., LTD. Koufu Factory

Tokyo Suisan Terminal Co., LTD.

Tokyo Danchi Reizo

Tokyo Toyomi Reizo Funabashi Factory

Tobu Unyu Prive

Toyo Suisan Kaisha, LTD. Higashi Ougishima Factory

Toyo Reizo(Refrigeration) Co., LTD. Sagamihara Factory

Niigata Central Fruit and Vegetables

Nikuno Suyzukiya Ltd.

Nichirei Logistics Tokai Toyohashi Distribution Center

Japan Bonito and Tuna Cooperative

Japan Super Freeze Co., LTD.

Note) *:-55°C~-60°C *:-35°C

Nihonmatsu Public Market

Title of Project



Nihon Reliance Co., LTD.

New Port Sangyo Co., LTD.

Hachinohe Central Fruit and Vegetables Co., LTD.

Hanaizumi

Ryouyu Shuzou Co., LTD.

Nissui Buturyu Co., LTD. Ibaragi Factory

Nikkei Shokusan Co., LTD.

* Hino Motors, LTD. Ibaragi Driving Test Course

Nittobest Corp. Sagae Factory

Hiroki Shuzou

Matsuzakaya Renovation Work

Maruka Niigata Fruit and Vegetables Co., LTD.

Maruden Distribution Service Center

Maruha Nichiro Foods, Inc. Toyomi Factory

Mitsubishi Heavy Industries, LTD. Oue Factory

Minami-Tsugaru Apples Cooperative Selling

Miyagi Sennan Agricultural Cooperative Oogawara Branch

Miyamoto Suisan Co., LTD.

Murata Suisan Co., LTD

Yakult Honsha Co., LTD. Fujisusono Factory

Yamaki Nouen Co., LTD.

Yamabun Daido Fruit and Vegetables Co., LTD. New Office Building

Yayoi Foods Co., LTD. Kesennuma Factory

Kitafuku Kaisan Kakou Co., LTD.

Takeuchi Seika Ninniku Limited.

Maruta Suisan Co., LTD

Yamafuku Apple Co., LTD.

Yokohama Ichiba Reizo Co., LTD. Nanbu Ichiba

Logistics Network Co., LTD. Kawasaki Takatsu Distribution Center

COMPANY PERFORMANCES

Title of Project

D Project Kuki Shoubuura Part 1B Block

JA Akita Furusato-Chuuou Cold Store

JA Shin-Iwate Toubu Assembly and shipping yards

JA Zennou Meet Foods Co.,LTD,

JA Chikuma Annual Shipping Yard

JA Higashine Wakadai Branch

JA Minami Shinshuu Mushroom Assembly and shipping yards

JA Matsumoto Highland Yamagata Branch

JA Nakano Hackberry Assembly and shipping yards

Vegetable Cold Store for Aomori Prefectural Management Agricultural College

JA Hitachi Hikari Branch

Toto Foods Co.,LTD,

Asahi Logistic Co.,LTD, Yokohama Distribution Center

L'attrait Co., Ltd. Sugamo Store

Issei Ham Co.,LTD. Kashiwa Plant

Itoham Foods Inc. Takashimizu Plant

Igarashi Reizo Co., Ltd. Shibaura Distribution Center

Naigen Suisan Co.,LTD, Toba Plant

Utoku Unyu Co .,LTD.

Echigo Ham Co.,LTD.

- Okayama Buturyuu Co.,LTD. Atsugi Distribution Center
- * Kaneyo Yamanobe Suisan Co.,LTD.

Kamaishi Fisherman's Cooperative Association

* Co-op Foods Corp. Morinosato Plant

Taishi Food Inc. Towada Plant

Incorporated Foundation Nihon Meet Foods Distribution Center

Sunny Ace Co.,LTD.

Samex Co.,LTD. Sagae Warehouse Extension Work

Sanko Ice Making Co.,LTD.

Shirayuki Tofu Co.,LTD. Saku Foods Plant

Shirataka Unsoo Co.,LTD.

Sumi-shou Network Co.,LTD. Oyamadai Branch

Suwa Shookai Co.,LTD.

Seiho Unyu Co .,LTD.

Zennou Buturyuu Co.,LTD. No. 6 Warehouse

Chuetsu Transport Co., Ltd. Nagaoka Branch

Chuetsu Transport Co., Ltd. Jyoetsu Branch

Daiichi Souko Reizo Co .,LTD. Toda No. 6 Warehouse

Tokyo Toyomi Reizo Funabashi Distribution Center

Toho Studio PPM Center

Toyo Wharf & Warehouse Co., Ltd. Kashima Warehouse

Tokyo Danchi Reizo

Tokyo Central Wholesome Market Adachi Market

Tokyo Toyomi Reizo

* Toyo Suisan Kaisha, Ltd. Chubu Region Distribution Center

Nikou Co.,LTD. New Construction Project

Nittobest Corp. Higashine Plant

 $\label{linear_point} \mbox{Nippon-paint Anticorrosive Coating Co} \ ., \mbox{LTD}.$

Hirosaki City Chuubu School Lunch Distribution Center

Foods Service Network Co.,LTD. Sendai Cold Storage Distribution Center

Fresco Co.,LTD. Ooigawa Branch

Matsuda Uehichi Co.,LTD.

Maruichi Sanshoo Co.,LTD.

Maruha Nichiro Foods Inc.

Mito Fisheries Co-operative Union

Yamagata Fisherman's Cooperative Association

Yamaki Foods Co.,LTD.

Yamamasa Reito Co.,LTD. Yaizu Cold-storage Warehouse

Yamada Suisan Ishinomaki Plant

EM Sougounet Co.,LTD.

Rikuchuu Suisan Co.,LTD Rumeal Co.,LTD.

- Watanabe Seihyo Reizo Co .,LTD.
- Itouchuu Fresh Co ..LTD.

Yokohama Ichiba-reizo Co.,LTD. Nanbu Branch

Yokohama Reito Co.,LTD. Tokyo Branch

Shinko Corp.

* Abechoo Shooten Co.,LTD. Oofunado Foods Plant

Abe Souko Co.,LTD. Daikoku Distribution Center

Abe Souko Co.,LTD. Honmoku Distribution Center

Kawamura Co.,LTD. Kesennuma Plant

Note) *****:-55°C~-60°C *****:-35°C

