Precautions and notes

The technical information described in this document is for the explanation of the main characteristics and performance of products. Unless a standard is clarified as a provision, it does not mean it is a guarantee. Please note that we are not responsible for any incorrect or inappropriate use of information described in this document. This information is also subject to change without notice. Please contact us for the latest information. All rights reserved.

*"NS Ecopile" is the registered trademark of Nippon Steel and Sumikin Engineering
Shaping modern day needs with trusted quality.
Introducing the further evolved “Stan Package R”

Based on the steel structure technologies we have worked hard to achieve, the construction system “Stan Package” achieves high quality building construction at a reasonable price in a short time. The existing product line was drastically overhauled to further meet modern day needs and feedback from our customers. Through “Restructure” of our products, “Renewal” of the product line creates further “Revolution”. Focusing our sentiments on the “R”; we debut with a new name “Stan Package R”. Our new steel frame and foundation technology development is a Japan first, and we are more than ever determined to win our customers’ trust.

Three promises to create the trust that only Stan Package can bring

- **Short Delivery Time**
  By utilizing our proprietary design tools and standardizing component shapes and jointing methods, the construction process is faster. Our methods shorten the delivery time by one-third compared to existing construction methods.

- **Reasonable Price**
  We reduced costs while maintaining high quality by thoroughly systemizing the design, production, and construction. We are proud to offer a reasonable price to our customers.

- **High Quality**
  High quality is achieved as our parts are produced at designated factories that are subject to rigorous quality control. The stable construction quality can also be provided regardless of the locations through our nationwide construction partners.
Find the right answer with steel structure technology and pre-engineered construction system.

We take advantage of our knowledge of engineering technology for steel structures, and the entire building production process from production development to sales and construction system equipment, to achieve optimal performance, short delivery time, a reasonable price, and high quality.

**Nippon Steel and Sumikin Engineering proprietary construction system, “Stan Package”**

### Steel construction technology

A wealth of experience obtained over many years and advanced steel construction technology

### Pre-engineered construction system

- **Our product and technology development**
  - We develop optimal components to meet our customers’ requests and modern-day needs.
- **Standardizing design and construction**
  - Through standardization of construction manuals, design schematics and specifications, we provide consistent quality promptly.
- **Utilization of IT**
  - We achieve complete solutions quickly through the development of design support tools.
- **Production system maintenance**
  - Providing high quality components from designated factories that have passed a stringent audit.
- **Sales system maintenance**
  - Enhancing our service by building a nationwide network with our construction partners.

### In the case of Stan Package

- Using a product catalogue or NS VENUS, you can see a detailed model or an image of the completed building. Moreover, one of our experienced salespersons will suggest applicable solutions for you.
- We can suggest high quality solutions promptly using detailed plans that have been technically reviewed in advance, manuals, and design and quotation software.
- Fast production is possible through manuals prepared in advance and component calculation software. We deliver consistent quality from our selected factory production.
- We deliver high construction quality using knowledgeable construction outlets and excellent construction manuals.
- Our construction partners will provide maintenance when necessary so you can use your building with peace of mind.

### High quality and short construction time at a reasonable price

Realizing solutions that look at the entire building production process, such as product development that focuses on short construction time, products that achieve a room environment that meet customers’ requests, and product development that reduces construction.

### In the case of a non-Stan Package

- A completed image cannot be decided upon and the meeting doesn’t reach a conclusion.
- As each building needs its own design, the design and quotation take time.
- As each building needs to be dealt with individually, there is a difference in quality.
- There is a difference in maintenance support.
Four systems and a highly flexible design that meets to your requests.

Various parts are created for the four systems, which are construction systems for steel and foundation components, a roof system, an exterior wall system, and a fittings system. A highly flexible design for the shape and dimensions of the building is possible so we can meet your requests in every way.

You can combine various exterior materials to get the room environment you want. With the Stan Package, you can combine exterior materials (roof and walls) to make various room environments. Four models are shown here that simulate temperature changes, air conditioner efficiency, and electricity usage.

Solutions for various room environments by combining roofs and exterior walls.

<table>
<thead>
<tr>
<th>Combination</th>
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Room environments achieved by models of combinations 1 – 4.

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<tr>
<th>Combination</th>
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Air Conditioner Efficiency

- Annual Air Conditioning Electricity Consumption (MWh)

<table>
<thead>
<tr>
<th>Location Type</th>
<th>Outside Environments</th>
<th>Combination A</th>
<th>Combination B</th>
<th>Combination C</th>
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Examples of Our Work

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Components

SP Panel Office

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<td>Combination</td>
<td>Combination</td>
<td>Outside Environments</td>
<td></td>
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</table>

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SP Panel Office
A wave frame that seeks weight savings and economic efficiencies.

This is a new column and beam component using wave-shaped thin steel plates. The weight of the steel material is reduced by approximately 30% compared to existing H-shaped steel and is highly economical. Its structure performance has obtained technical certification from the Japan ERI Corporation and is highly reliable. The specialized automatic production line also consistently delivers high quality components.

Application range:
- Building: Flat buildings
- Scale: Span 35m or lower, Eave height 13m or lower

A new frame that reduces steel weight by 30% and is economically efficient

SP Wave Frame

An overhead crane of up to 5 tons can be used with this component. The crane bracket and girder use H-shaped steel.

Crane installed is also possible

- Scale: Span 35m or lower, Eave height 13m or lower

Economical H-shaped steel frame components

Corner Blocks

Utilizing proprietary corner blocks for columns and beams achieves economical frames, and they can be also used in buildings with cranes.

Column base using dish springs for H-shaped steel frames

Dish Springs

A column base system using spring components, dish springs, for the column base plate

Specialized Steel Components for H-shaped Steel Frame

Compatible Materials

Earthquake Resistant Brace to Endure Strong Earthquakes

Highly Earthquake Resistant Brace (Subsystem)

This brace has a proven record against tremors and earthquakes in high-rise buildings and earthquake proofing, and has been improved for the Stan Package. The brace increases earthquake resistance to strong tremors and stays intact by fixing the core steel material with steel pipes and concrete.

Wave Frame/H-shaped Steel Frame

Installations

Construction System (steel components/foundation components)

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Structure

A wave frame that seeks weight savings and economic efficiencies.

Standard and flexible H-shaped frame
We have various roof systems to suit your needs to choose from and we have recently added low cost products and high grade products to our existing lineup.

**Roof Components**

**A multi-purpose boltless roof**

**SP Roofing U**

A standard product with seam-fastening boltless folded-roof material. It stays highly water proof even for a long roof without seams. Angled (gabled), slanted, and parapet types are available.

**Roof system that achieves further cost reduction**

**SP Roofing L**

A seam-fastening boltless folded-roof material stays highly water proof. Furthermore, it reduces costs by broadening the roof material working width.

**High grade roof system with reinforced strength**

**SP Roofing S**

The roof material strength is reinforced by combining seam-fastening and fitting methods. The same level of waterproof performance as seam-fastening folded-plate roof type can also be maintained.

**Panel type roof system that is a roof as is**

**SP Roofing D**

This is a specialized roof sandwich panel with highly thermal insulating isocyanurate foam between steel plates. It has high thermal insulation and airtightness. Due to its flat shape and bright baking finishing, it can be used as roofing material as is.

**Double folded-roof seeking heat insulation and airtightness**

**SP Roofing G**

This is a roofing system that lays a glass wool mat between the upper and lower SP roofing U for superb thermal insulation and airtightness. It also has obtained proprietary fire resistant certification and is suitable for fire resistant buildings.

**Roof System Performance Comparison Table**

<table>
<thead>
<tr>
<th>Products</th>
<th>Weight (kg/m²)</th>
<th>Thermal Insulation</th>
<th>Sound Insulation</th>
<th>Sound Absorption</th>
<th>Fire Resistance Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roofing U</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Incombustible Material: MA-6811</td>
</tr>
<tr>
<td>Roofing L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Incombustible Material: MA-6811</td>
</tr>
<tr>
<td>Roofing S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Incombustible Material: MA-6811</td>
</tr>
</tbody>
</table>

**Roof Thermal Insulation Material**

**Two types of roof thermal insulation materials**

**SP Thermal F**

There are two types for you to choose from depending on your needs and the grade: SP Thermal F glass wool type and SP Thermal G glass wool mat type.

**Usage examples**

- SP Thermal F/SP Thermal G
- For more details, please contact your local sales office.
Steel Plate Siding Exterior Wall
SP Siding 29
Compared to commonly used products, this steel plate is thicker and the peak height is larger at 0.5 mm and 29 mm respectively. It can be extended with the rolled molding with the proprietary convex-shaped edge. Colored galvalume steel plate is employed for superior durability.

Cost Effective Panel Type Exterior Wall
SP Panel Light
(specialized for horizontal beams)
This is an exterior wall of one-side steel plate panel. Its core material is hard rock wool board. By combining with plaster boards for the foundation, it can correspond to fire resistant structure as well.

Sandwich Panel with Superior Thermal Insulation and Design
SP Panel I-BL (25/35)
(specialized for horizontal beams)
This is a superior thermal insulating exterior wall combining steel plates with highly thermal insulating isocyanurate foam. It is characterized by its aesthetics and luxury flat finishing. Blemishes, such as rain drops, are less likely to remain on the outer steel plate and its beauty lasts longer.

Sandwich Panel with Fire Prevention/Fire Resistance Functions and a Sophisticated Design
SP Panel FR-BL 50
(specialized for horizontal beams)
This exterior wall has rock wool as its core material and steel plates that are fire resistant certified on both sides. It is bottleless with a luxurious flat exterior, and compared to fire resistant structures, such as ALC, it has superior thermal insulation and is excellent for construction due to its light weight.

SP Siding 29 Thermal Insulating Type
SP Siding RG
By using a 25mm thick glass wool board as foundation material, it cost effectively improved the thermal insulating performance of the exterior wall.

Sandwich Panel Specialized for Vertical Beams
SP Panel I (22/35)
A sandwich panel that has isocyanurate foam at its core and is specially made for vertical beams for superior thermal insulation. It uses a belt construction method and is highly cost effective.

High Thermal Insulation and Sound Insulation and Fire Resistant Structure
SP Siding GF
This is an exterior wall certified for fire resistance structures. Construction is conducted only from the outside thus dramatically reducing construction time.

Dry Spandrel Wall that is Twice as Fast to Construct as Existing Methods
SP Panel C
This is a dry spandrel wall that is more than twice as fast to construct as existing construction methods. Specialized engineers are unnecessary and it has high quality with a beautiful finish.

Various products, such as windows, shutters, and overhead doors, are available for selection depending on your needs. Additionally, equipment such as lighting and air ventilation are also available.

You can choose from various exterior wall systems from thermal insulation and sound absorption to design depending on the purposes of the building. additionally, products are available from highly functional products to structures at an affordable price.
Proposing Short Construction Time and High Quality for Office Construction Plans

Utilizing techniques possessed by Nippon Steel and Sumikin Engineering group companies and the knowledge of our system constructions, we are proud to introduce the SP Panel Office, specialized for small scale offices. Through external wall panels that combine the structure and external components, we have achieved a building of high quality that is also fast to build.

System Construction Specialized for Small Offices

SP Panel Office

The SP Panel Office is a system specialized for small and single-story offices that are built by platform framing construction using thin and light weight steel plates. It assures quality and short construction time by modularizing and panelizing exterior components (exterior wall and fixtures).

Merit 1 Short Construction Time

Exterior panels, including construction materials, are produced at factories. Panels only have to be assembled at construction sites reducing construction and leading to short construction time.

Merit 2 High Quality

Compared to conventional methods, more parts of the SP Panel Office are manufactured at factories to provide more consistent quality.

Merit 3 Short Amortization Term

The steel plate (plate thickness) used for the structure is 3mm or less, and therefore it provides a shorter amortization term compared to conventional steel.

Merit 4 High Thermal Insulation

It provides a superior thermal insulation by using metal thermal insulation panels as exterior wall components for comfortable office space.

Legal Durable Years for Steel Buildings

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Thickness of Steel Frame Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>More than 4mm</td>
</tr>
<tr>
<td></td>
<td>Between 3 and 4mm</td>
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<tr>
<td></td>
<td>3mm or less</td>
</tr>
<tr>
<td>Store</td>
<td>38 years</td>
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<tr>
<td></td>
<td>30 years</td>
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<tr>
<td></td>
<td>22 years</td>
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<tr>
<td></td>
<td>34 years</td>
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<td></td>
<td>27 years</td>
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<td></td>
<td>19 years</td>
</tr>
</tbody>
</table>

Applications

The following are suggested applications:

- Number of Floors: single-story
- Dimensions: 10m² or more and 400m² or less
- Maximum dimension of plane surface: 15m or less for short side, 30m or less for long side
- Snow: 50cm x 20N/m²/cm or less
- Loading volume: 2,900N/m² or less (should be less than the maximum value even for a non-structure floor)
- Standard wind velocity (Vo): 40m/sec or less
- Fire prevention and fire resistant structure: Standard structure is not supported (please consult separately)

Standard exterior wall panel that you can combine as you like

No fixture type

Double vertically projected window type

Double sliding window type

Double outward opening window type

Projected window type

Aluminum sidelite door type

Aluminum single swing door type

Please contact us for more details.
A Tremendous Track Record Delivering Trust and Safety for More Than 10,000 Buildings

Stan Package has proudly been used in more than 10,000 buildings all over the country such as factories, storage facilities, logistic centers, offices, and stores. The following shows examples that accurately and flexibly meet various customer needs.

Factories
An integrated system from design to manufacturing and construction provides consistent quality at a low cost. We accomplish performance that matches the purpose as well as a pleasant working environment.

Storage Facilities and Logistic Centers
Superior performance including high thermal insulation, sound insulation, sound adsorption, and earthquake resistance were achieved. It is possible to dramatically increase work efficiency and reduce running costs through thermal insulation.

Examples of Our Work

Metal Products Manufacturing for Construction
Sakagawa City, Fukushima: 11,055m²
A production factory manufacturing metal products and solar power panels for housing manufacturers. The combination of a foundation system that doesn’t need specialized engineers and a large span structure realizes a short construction time (6-9 months) and a high cost performance.

Sukagawa City, Fukushima: 11,055m²

Superior performance including high thermal insulation, sound insulation, sound adsorption, and earthquake resistance were achieved. It is possible to dramatically increase work efficiency and reduce running costs through thermal insulation.

Factories
An integrated system from design to manufacturing and construction provides consistent quality at a low cost. We accomplish performance that matches the purpose as well as a pleasant working environment.

Intermediate Processing Facility
Shiri City, Chiba: 3,700m²
A building that is environmentally friendly, improves work performance and is economically efficient.

Seafood Processing Factory
Onomichi City, Hiroshima: 2,410m²
A factory for a seaweed and seafood processing company. At a food factory, the need for a sanitary and clean work environment were taken into consideration for this building, as was the environment.

Food Fragrance Technical Center
Hadano City, Kanagawa: 2,100m²
A building that improves sound and thermal insulation, achieving a room environment suitable for a technology center.

Logistic Center in Office
Hitachinaka City, Ibaraki: 1,400m²
Apparel manufacturing and sales company head office and logistic center. Both design and economic efficiency are achieved.

Logistic Center for Vehicle Parts
Itami City, Hyogo: 10,660m²
Vehicle parts logistic center for a major vehicle manufacturing company. Functionality and economic efficiency were stressed.

Refrigerator and Freezer Facility
Fukuoka City, Fukuoka: 3,700m²
A factory for a seaweed and seafood processing company. As a food factory, the need for a sanitary and clean work environment were taken into consideration for this building, as was the environment.

Steel Tube Storage Facility
Oyama City, Tochigi: 1,800m²
Reflecting the image of their product, alloy steel tubes, this building shows sharp and casual-modern design with flat and thermal insulation panels.

Machine Tool/Device Manufacturing Factory
Yachiyo City, Chiba: 810m²
A factory for a machine tool and device manufacturing company. Rooflights are installed to take the room environment into consideration.

Logistic Center/Office
Hitachinaka City, Ibaraki: 1,400m²
Apparel manufacturing and sales company head office and logistic center. Both design and economic efficiency are achieved.

Examples of Our Work
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**Offices**
The size of the design is customizable at the customer’s request. The total cost is economical and due to the short construction time, you can open your business as soon as possible.

- **Storage Facility and Office**
  Tsu City, Mie: 1,940m²
  Office of a liquid crystal film manufacturing company. A storage facility with a clean room, this building incorporates the harmony of iron and wood for the design.

- **Office for an Electronic Components Manufacturing Company**
  Date-gun, Fukushima: 1,300m²
  Office for an electronic components manufacturing company. By employing a thermal insulation panel, this building reduces air conditioning energy consumption (energy savings) and improves the office environment (sound insulation).

- **Logistic Center for Electronic Equipment**
  Ebina City, Kanagawa: 5,030m²
  Headquarters for an electronic equipment manufacturing company. This building takes into consideration the design, amenities, and security for the offices as well as worker efficiency and thermal insulation performance for the logistics center.

- **Office for an Electronic Components Manufacturing Company**
  Kakegawa, Shizuoka: 1,000m²
  Office for an electronic components manufacturing company. By employing a thermal insulation panel, this building reduces air conditioning energy consumption (energy savings) and improves the office environment (sound insulation).

- **Cooperative Association Branch**
  Funabashi City, Chiba: 900m²
  A cooperative association branch in the Nishifuna area. As a financial organization that wins trust from association members and local residents, the design of this building has an air of dignity.

**Shops/Others**
Various designs for functionality and size are available to meet your needs. Various economical designs for a bright and clean store that is easy to work in are available.

- **Motorcycle Store**
  Edogawa-ku, Tokyo: 500m²
  Motorcycle store of a major motorcycle manufacturer. Facing a main road, this building focuses on an open design for a feeling of spaciousness.

- **Fitness and Health Club**
  Asahi City, Chiba: 2,700m²
  Sports and spa facilities of a nationwide fitness and health club. This building has improved exterior wall thermal insulation and design.

- **Gymnasium**
  Sendai City, Miyagi: 2,740m²
  A gymnasium especially for basketball. Maximizing the characteristics of Stan Package Pack F, this building was built in a short time and at a low cost.

- **Medical Center**
  Kamaishi City, Iwate: 610m²
  This is a facility responsible for local medical treatment in an area that lost its medical functions due to The Great East Japan Earthquake. With a short construction time, this building has been contributing to the recovery of local medical treatment.