



We put top priority on customers.

Hana Panel Co., Ltd.



COMPANY PROFILE

Hana Panel Co., Ltd.

Welcome to our website! I am Chairman Kim Jeong-gi. I would like to thank you wholeheartedly for your affectionate concern and encouragement to Hana Panel Co., Ltd.

Hana Panel Co., Ltd. produces internal and external panels for construction. Through continued researches and technology developments, we are developing and manufacturing standardized products which can be easily installed by anyone for general buildings and government offices.

The products of Hana Panel Co., Ltd. are excellent in preventing water leak and easy to install. So, you can shorten not only delivery time but also installation period, thus reducing construction costs. In addition, in order to satisfy customers and secure the reliability of the products, we have also obtained the certification for the quality management system, the performance certification from the Small and Medium Business Administration, and the excellent invention certification from the Korea Invention Promotion Association. This indicates the superiority of our products and means that customers can use them without any worries. As we will keep researching and developing technologies for increasing our customers' property values through customer satisfaction as well as product quality satisfaction, we also would like to ask you to pay much attention and give a lot of encouragement to Hana Panel Co., Ltd.

Improvement of living environment and increase in customers' property values

■ Increase in building quality and values

With future-oriented appearance and strong & splendid functions, you can increase the quality and values of buildings after installation.

■ Reduction of installation period and construction costs

Quick product delivery and easy installation differentiate ourselves from other manufacturers and satisfy our customers with reduction of construction costs.

■ Other additional environment functions

If you use our products for buildings, you can upgrade the dignity of your buildings and obtain additional environment functions, such as prevention of water leak, additional insulation, and prevention of condensation.



HISTORY

- | | |
|------|---|
| 2014 | Performance certification, excellent inventions |
| 2009 | Registration with Public Procurement Service - KS Q ISO 9001 Certification |
| 2008 | Nominated as a venture business. |
| 2007 | Obtained the patent for interior panels. |
| 2002 | Changed the company name to Hana Precision Co., Ltd. and selected as a clean place of business. |
| 1998 | Nominated as a venture business. Purchased and moved to a new factory. |
| 1995 | Established Hana Precision Co., Ltd. on August 01. |

CERTIFICATES AND TEST REPORTS

DEVELOPMENT BACKGROUND

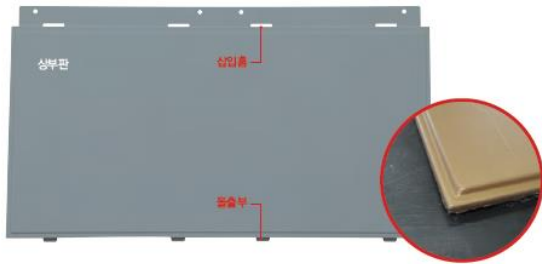
Division	Problems with existing products	Developed products
Problems with Products	<ul style="list-style-type: none"> - Labor costs increase due to complicated and long production processes. - Water leaks due to gaps at panel edges. 	<ul style="list-style-type: none"> - Press molds are used for the first time at home and abroad - Stepped forming and all-in-one corners
Problems With Installation	<ul style="list-style-type: none"> - As the fixing structures are complicated with a 4-side fixing type, it causes the increase in installation costs. - The use of backup materials causes the increase in material costs. 	<ul style="list-style-type: none"> - Improvement of fixing types - Fixing only one side with screws after inserting and combining. - As it is finished on the stepped part, backup materials are not used.
Problems With Using	<ul style="list-style-type: none"> - The finishing materials are not durable due to artificial damage and shrinkage caused by thermal expansion. - Problems when a fire breaks out. Core materials, backup materials. 	<ul style="list-style-type: none"> - As backup materials are not used, artificial damage can be prevented and there is no fire caused by backup materials.

QUASI-NONCOMBUSTIBLE AND WIND PRESSURE TEST DATA

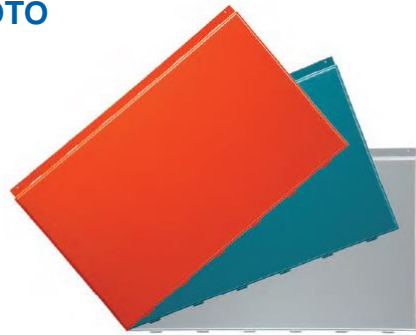
Test item	Standard	Result	Test method
Thermal emission test - Total emission calories	Less than 8MJ/m ²	0.3MJ/m ²	Passed the quasi-noncombustible material test in accordance with KS F ISO 5660-1 2003.
Thermal emission test - The time in which thermal emission exceeds 200kw/m ² continuously.	It must not exceed the time.	0 second	Passed the quasi-noncombustible material test in accordance with KS F ISO 5660-1 2003.
Thermal emission test - Cracks, holes, and melting which penetrate the test body and are harmful to fire prevention.	There shall be no problem.	No problem	Passed the quasi-noncombustible material test in accordance with KS F ISO 5660-1 2003.
Airtightness test	Less than 0.0183m ³ /h, m ²	0.0066m ³ /min, m ²	ASTM E-283: 2004
Water tightness test	There shall be no water leak.	There is no water leak.	ASTM E-3312000&J
Wind pressure test	There shall be no missing and damage to test bodies.	There is no problem with the test body.	ASTM E-330: 2014
Salt water spray test		There is no problem with the test body.	KS D 9502: 2009

PRODUCT

STRUCTURE



PHOTO



SPECIFICATION

Material	Fluorine-coated, galvanized color steel sheet
Size (mm)	300 x 600, 600 x 600, 275 x 1000, 600 x 1000
Thickness	10mm
Use	New and remodeling interior & exterior
Materials and ceiling materials Insulation	Polyester fiber (self-extinguishability) – Option

SUBSIDIARY MATERIALS



+Shaped bracket



T-shaped bracket



Fixing drawing



Flat fastener



Right-angled fastener



Finishing base



Corner bracket



Flashing

PRODUCT

STRONG POINTS OF THE PRODUCT

■ Installation – Fix one side with screws after inserting and combining

The extruded part at the lower left side of the product is inserted into the groove at the upper part of the product and fixed firmly there. As it is produced to be perfectly installed by fixing only one side, you can save labor costs and prevent rust on screws, thus making it possible to keep its surface clean.



■ Installation – Backup materials are not used when silicon work is done.

By coating the finishing material on the stepped part, you do not need to use backup materials. So, you can save both labor costs and material costs. As the sealing surface is wide and deep with its size of 7.5 ~ 9mm, you can prevent natural water leak and any other water leak which may be caused by damage.



■ Production of all - in-one corner and stepped part

As it is manufactured as an all-in-one product without any gap in the edge, you can prevent water leak which may be caused by the external environment. Because the steps are formed around the product, you can reinforce its flexural strength and flatness though the metal panel can be as thin and light as possible.



■ Structure Installation

You can prevent fire which may be caused by welding while installing structures.



< Welding method >

< Bracket installation method >

INSTALLATION CASES

INSTALLATION CASES



Yangsan Middle School Auditorium



Hongje Middle School Auditorium



Jeongeup Radiation Research Center Dormitory



Seosan CGV



Gimje Intake Station



Namwon Mart Town

BEFORE AND AFTER REMODELING

Seongnae-dong shipping center



Wooseong Bowling Alley



Yeoncheon County Office



Video on Product Manufacturing



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