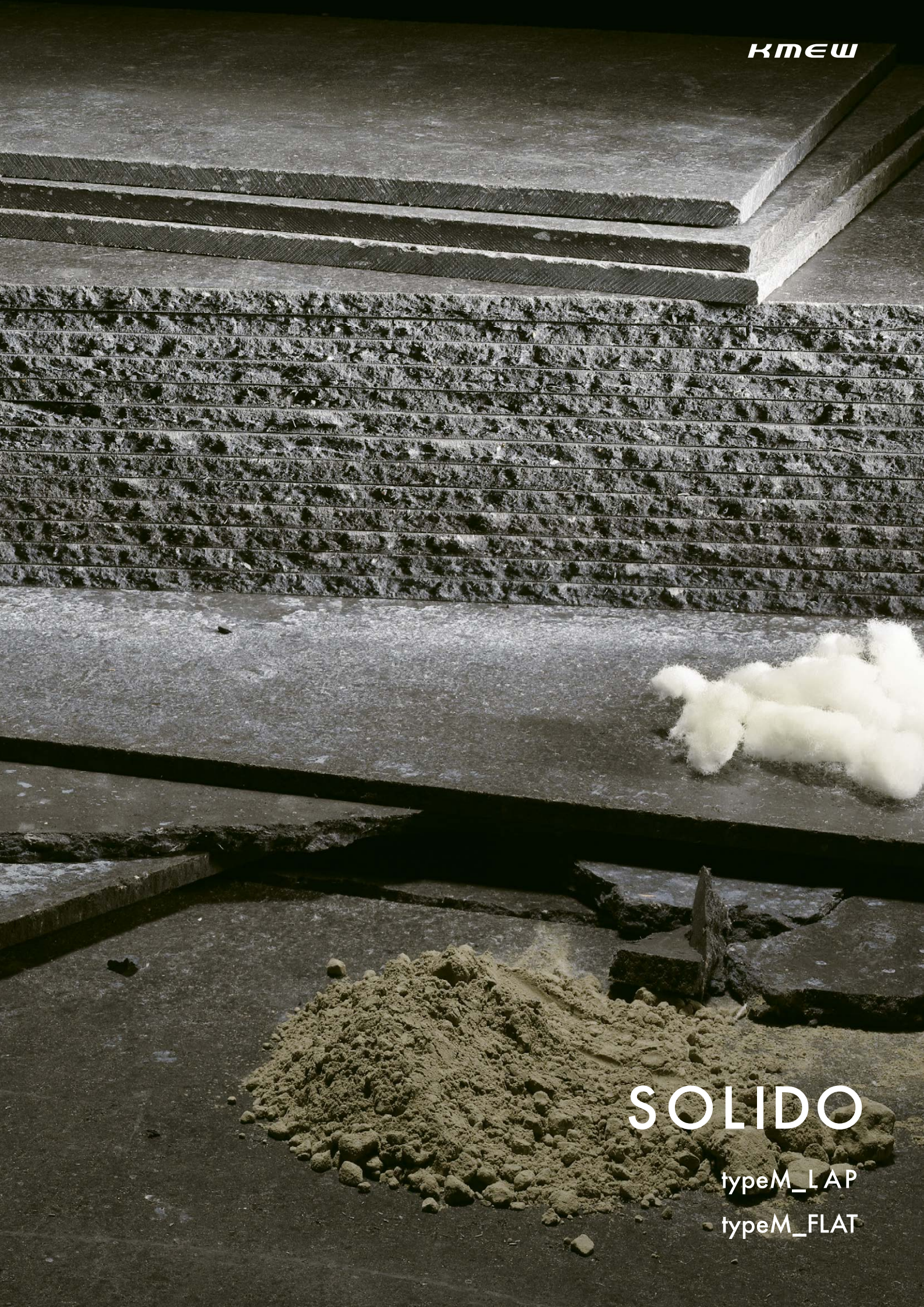


KMEW



SOLIDO

typeM_LAP

typeM_FLAT

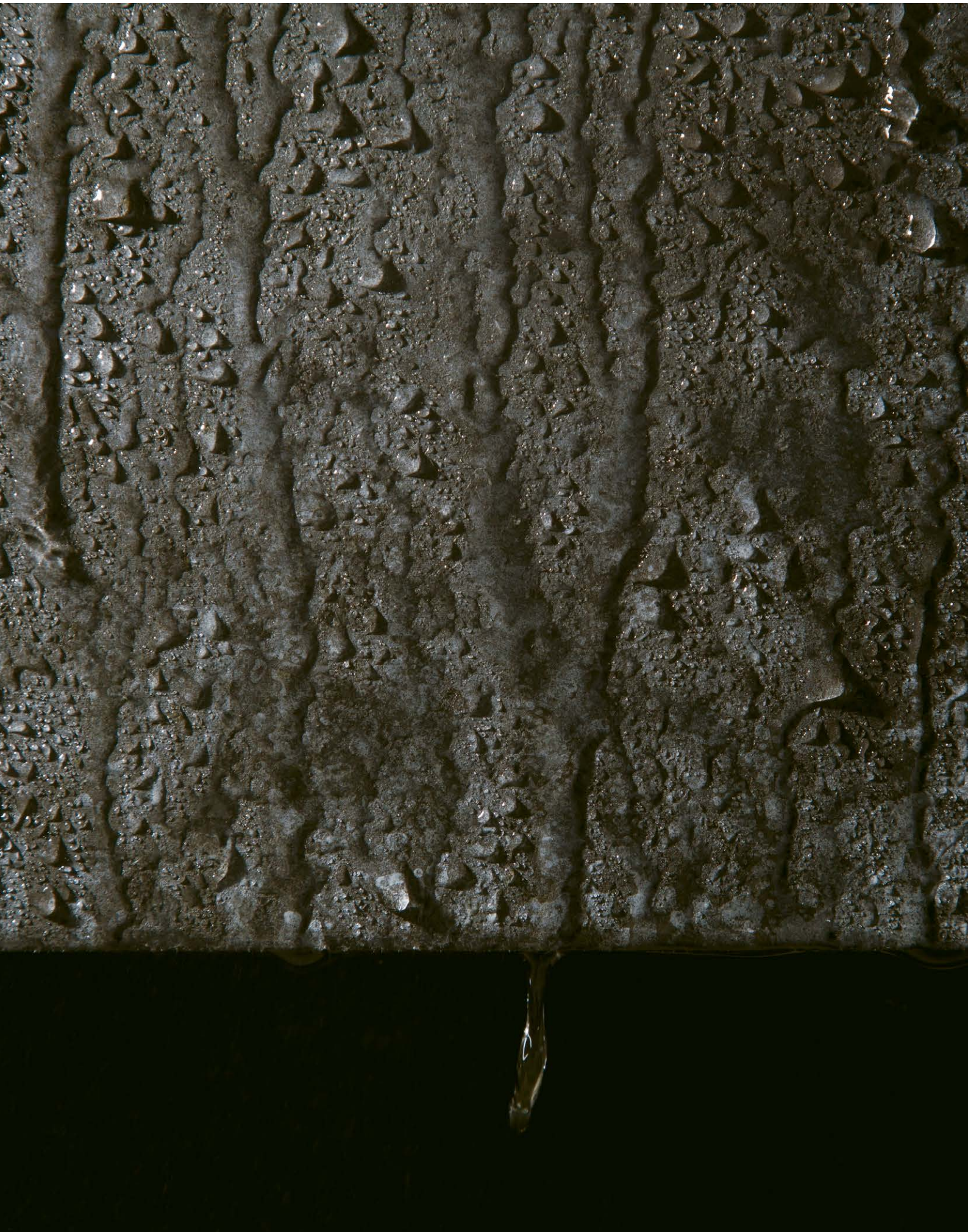
"SOLIDO", as its name suggests, is a solid building material that boldly enhances the unique texture of cement. No two "SOLIDO" panels are the same.

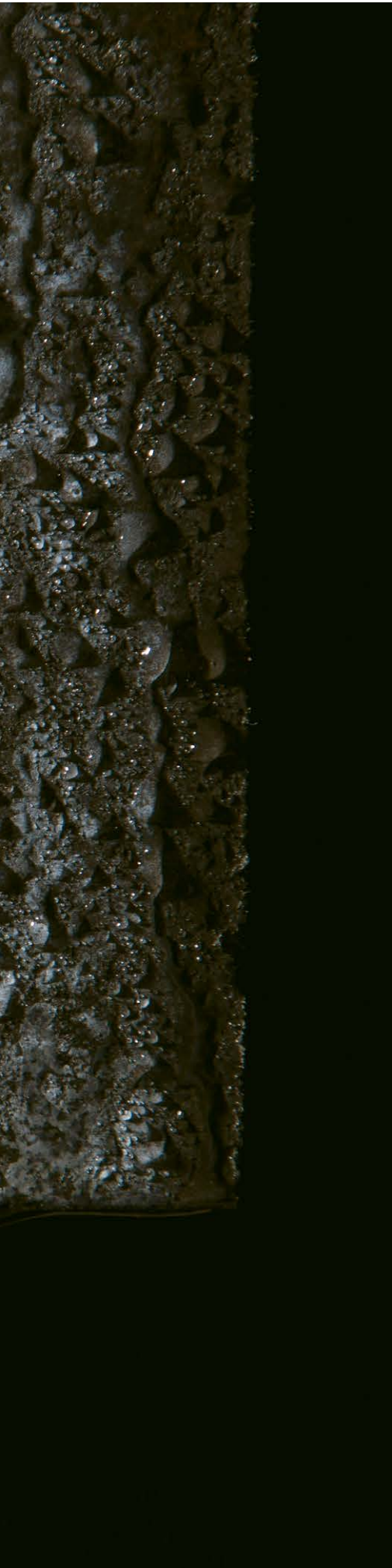
Simultaneously harmonizing with natural materials, "SOLIDO" marks the passage of time with humans.

SOLIDO









Varying texture marked by the passage of time

We make the most of cement's original texture by keeping the natural efflorescence that occurs in cement.

The attractive texture of "SOLIDO" is accentuated by the sun, rain and seasonal changes.







Thin but Tough

Strong cement materials are formed with a high-pressure roll press and steam curing under high temperatures and pressure.

Sustainable

Waste generated in the process of production and construction can be recycled, resulting in a reduced environmental burden.

The individual color of each material

Iron oxide with multi-color appearance, fumes generated from refined iron, and fly ash from power plants as recycled materials mixed with the cement.


SOLIDO's look appears to be because of the materials contained in.

セメント

Cement

灰 (ハイ)

Hai



錆茶 (さびぢや)

Sabicha

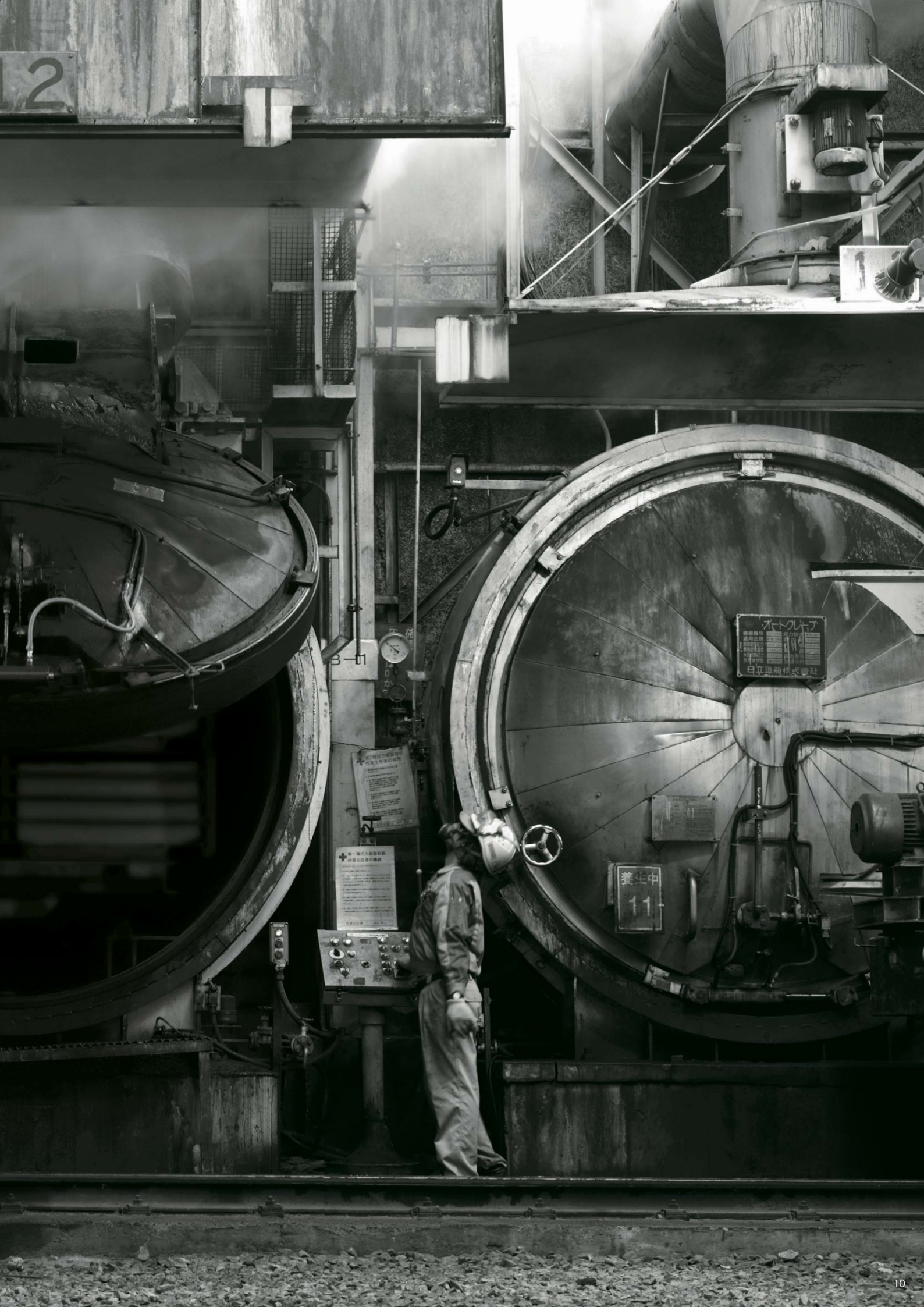
鉄黒 (てつくろ)

Tetsuguro



確認
主
は
り
か？
電力設備
安全
注意

在中



2

B-11

オートクレーブ
保固期間
使用法
注意事項
日立造船株式会社

第一種圧力容器
第一種圧力容器の検査
日立造船株式会社

養生中
11



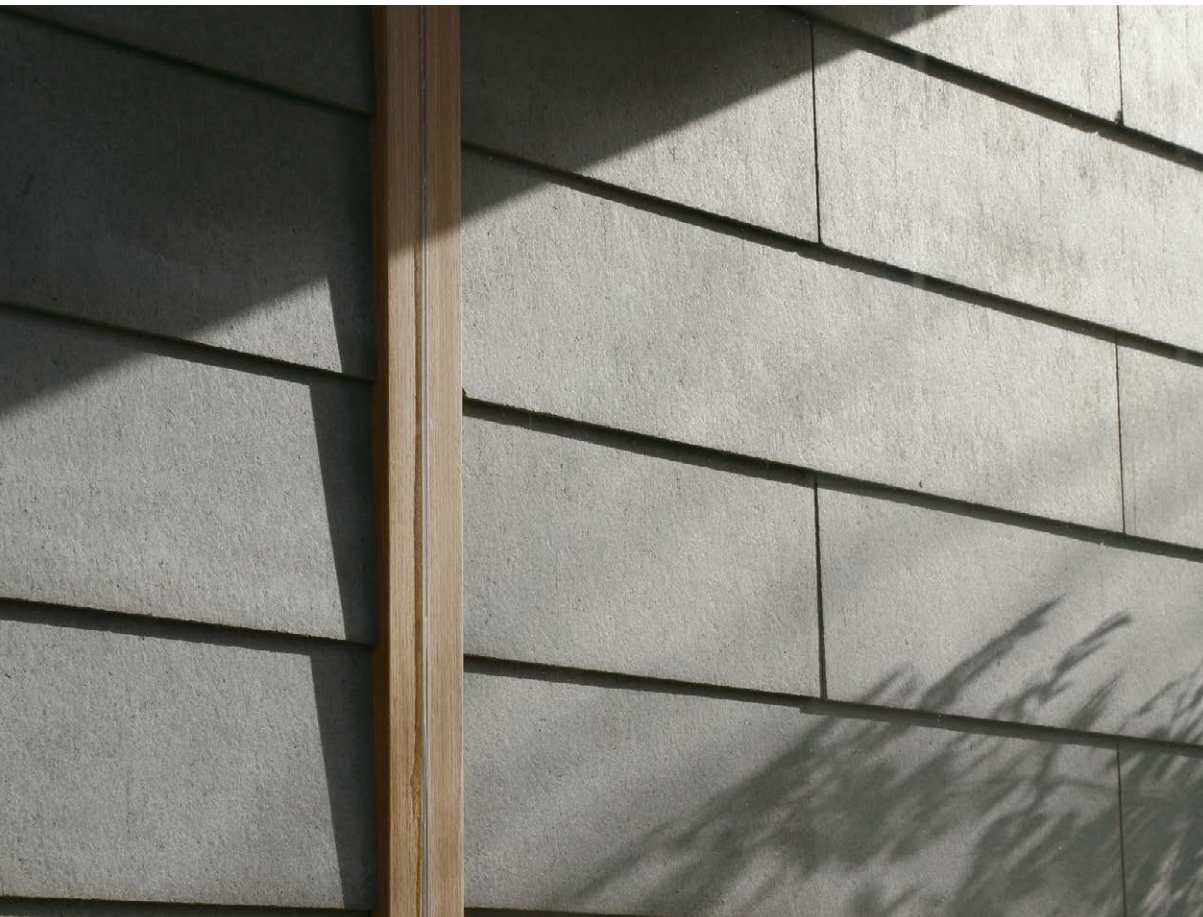
typeM_LAP

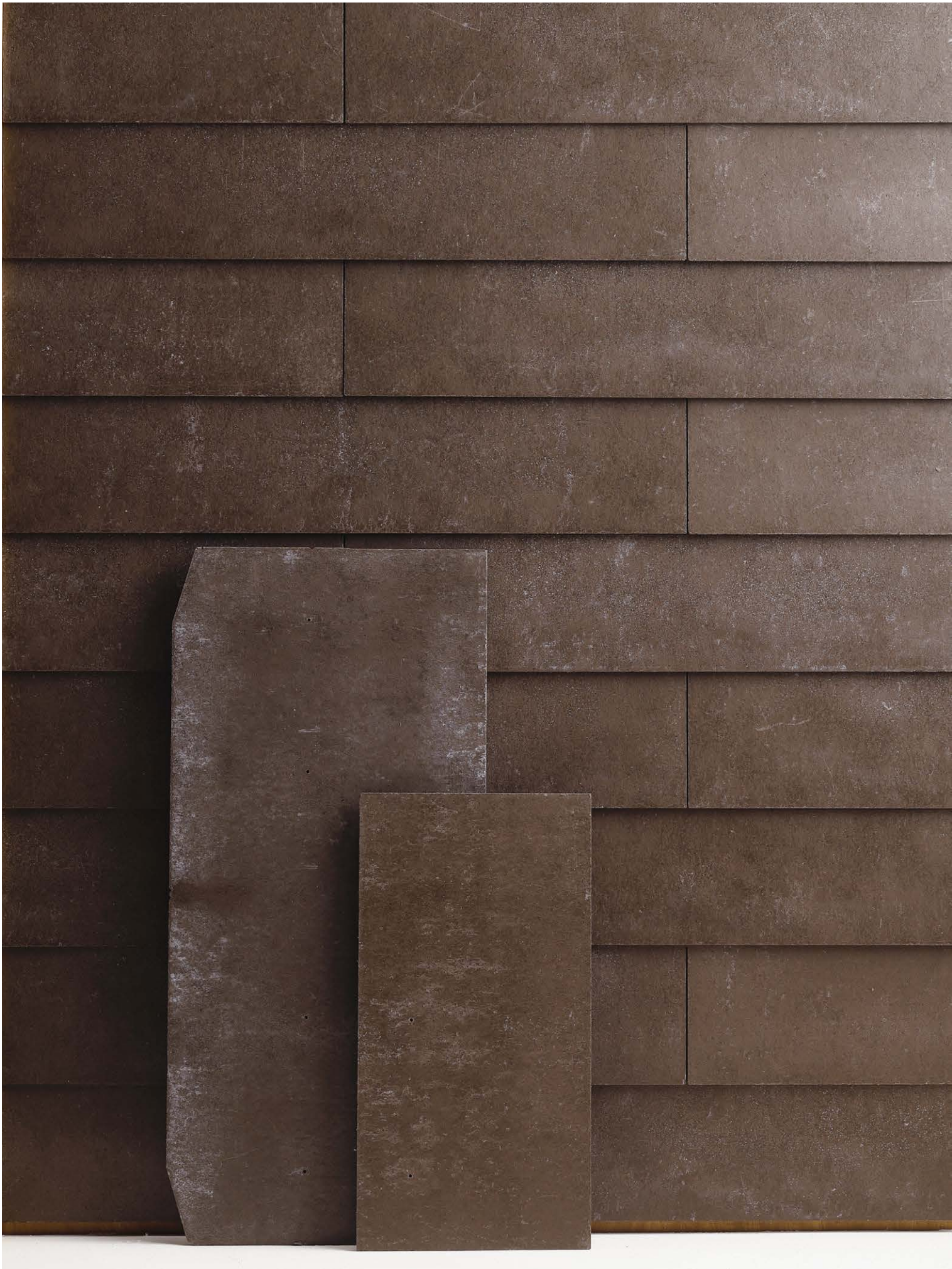
"SOLIDO type M_LAP" is a weatherboard material suitable for use on interior and exterior walls. The shadows produced by the overlapping parts bring unique depth and texture.

It comes in four colors: "Tetsuguro", "Cement" and two newly added colors "Sabicha" and "Hai".



typeM_LAP Cement





typeM_LAP/FLAT Sabicha



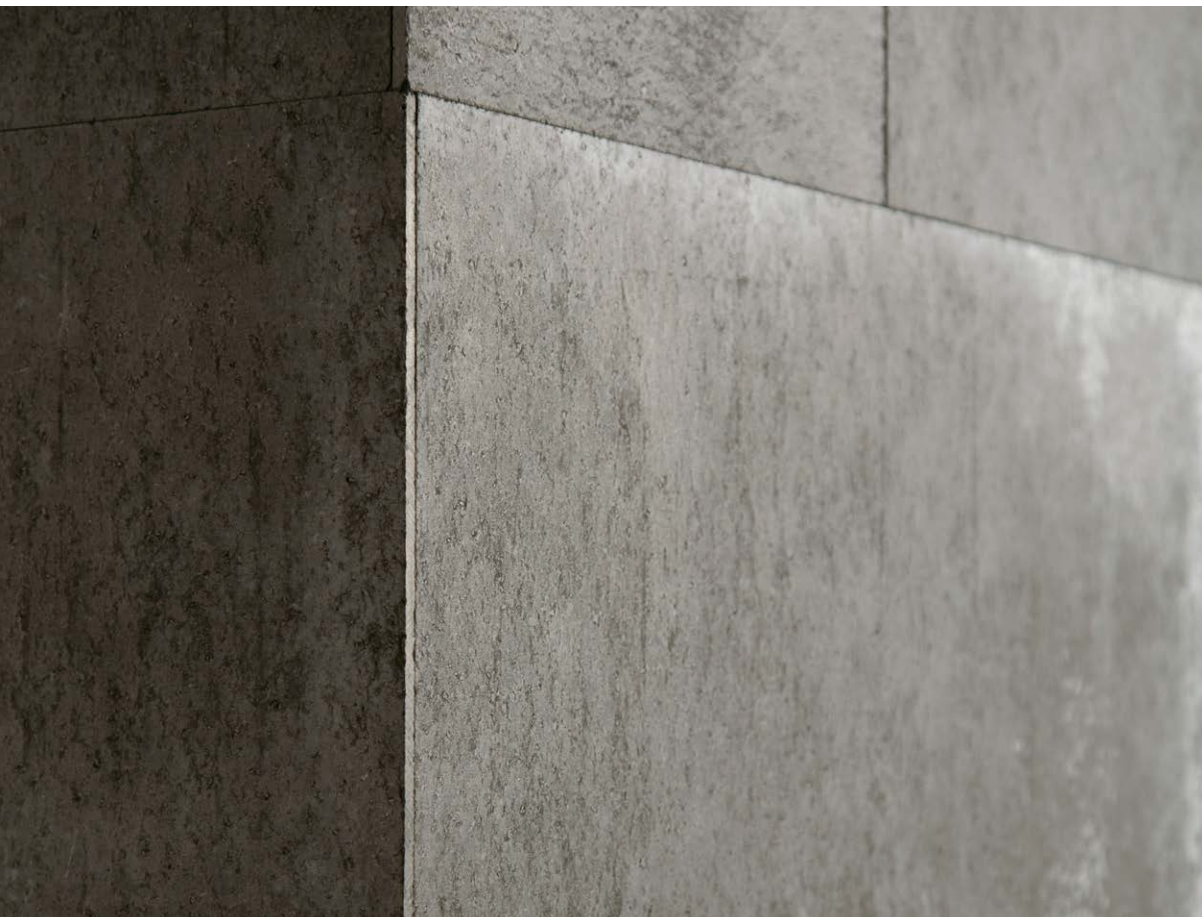
typeM_FLAT 606×303/606×151.5

"SOLIDO type M_FLAT" is exclusively use on interior walls and creates an even surface. Adhesive panel enables us to express our style freely on wall surface.

Like "SOLIDO type M_LAP", it comes in four colors: "Tetsuguro", "Sabicha", "Cement" and "Hai".



typeM_FLAT Tetsuguro





typeM_FLAT Hai

typeM_FLAT KENMA 606×303

A new attractive look of grinded "SOLIDO typeM_FLAT".

Stones and recycled materials contained in the panel become visible by creating a new scene due to efflorescence which is different from the simple texture.





typeM_FLAT Kenma Tetsuguro

LINE UP

【For Interior and Exterior Use】

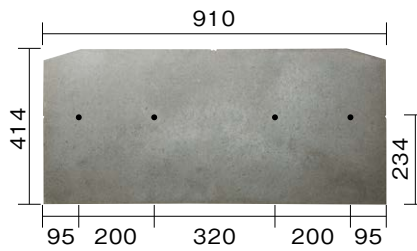
typeM_LAP



Non-Combustible Certificate No.NM-4601

Common name Fiber cement flat slate

Board (Thickness 5.5mm)



Recommended 870JPY/sheet (No tax added)
Retail Price 5,250JPY/m² (No tax added)

※ Use through holes to fix with nail or screw

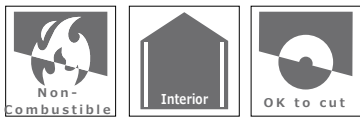
Sheets/pack	8 sheets/bunch (Shipment: package unit)
Dimensions	910×182mm
Coverage	Approximately 6 sheets/m ²
Weight	Approximately 3.7kg/sheet

Performance

Item	typeM_LAP	Test method	
Specific gravity	1.7	105°C Dry for 24h (KMEW measured value)	
Bending load	Cleared (JISA5423)	JISA 1408※ (Test method 4)	※The product is measured according to JISA1408 and 5423. It is not a JIS product.
Impact resistance	Cleared	JISA 5423※	

【For Interior Use】

typeM_FLAT



Non-Combustible Certificate No.NM-4601

Common name Fiber cement flat slate

Board (Thickness 6.0mm)



Recommended Retail Price
1,000JPY/sheet(No tax added)
5,430JPY/m² (No tax added)



Dimensions	606×303mm	Coverage	Approximately 5.5 sheets/m ²
Sheets/pack	10 sheets/box Shipment: box unit	Weight	Approximately 2kg/sheet
		Specific gravity	1.7

Board (Thickness 6.0mm)



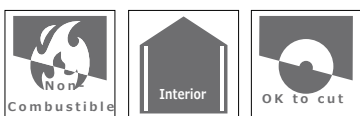
Recommended Retail Price
600JPY/sheet(No tax added)
6,520JPY/m² (No tax added)



Dimensions	606×151.5mm	Coverage	Approximately 11 sheets/m ²
Sheets/pack	20 sheets/box Shipment: box unit	Weight	Approximately 1kg/sheet
		Specific gravity	1.7

【For Interior Use】

typeM_FLAT KENMA



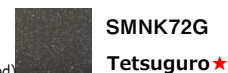
Non-Combustible Certificate No.NM-4601

Common name Fiber cement flat slate

Board (Thickness 5.6mm)



Recommended Retail Price
1,650JPY/sheet(No tax added)
8,950JPY/m² (No tax added)



Dimensions	606×303mm	Coverage	Approximately 5.5 sheets/m ²
Sheets/pack	10 sheets/box Shipment: box unit	Weight	Approximately 1.9kg/sheet
		Specific gravity	1.7

★: New product.
Release date: 02.03.2020

typeM_LAP

Accessories For other accessories information refer to SOLIDO typeM_LAP installation manual posted on KMEW web site.

Product name	G Starter	Nail 32 (Accessory)*1	Nail 45 (For Ceiling Contact Area)	KMEW Super Sealing	
Shape					
Item Number	For Tetsuguro STG62G For Cement STG75G For Sabicha★ STG21G For Hai STG62G	KL32TM	For Tetsuguro B8745F743 For Cement B8745F522 For Sabicha★ B8745F1713 For Hai B8745F743	For Tetsuguro B84743 For Cement B841810 For Sabicha★ B84707 For Hai B84743	
Recommended Retail Price	510JPY/sheet (No tax added)	160JPY/bag (No tax added)	460JPY/bag (No tax added)	4,560JPY/piece (No tax added)	
Sheets/pack	10 sheets/package	66 pieces/bag	40 pieces/bag	10 pieces/box	
Material	Cosmetic slate	Hot dip galvanized iron	Stainless Steel	Modified silicone	
Shipping unit	Pieces	Bag	Bag	Piece	
	Smart Corner**2	Smart Inside Corner**2	Wind resistant clip for small installation★	Starter Supporting Accessory	Roofkeeper
Shape					
Item Number	For Tetsuguro KLGX534 For Cement KLGX535 For Sabicha★ KLGX531 For Hai KLGX534	For Tetsuguro KLGW534 For Cement KLGW535 For Sabicha★ KLGW531 For Hai KLGW534	For Tetsuguro KLB35(Gray) For Cement KLB34 (Silver Gray) For Sabicha KLB31 (Brown) For Hai KLB35 (Grey)	For Tetsuguro KLB832 (Black) For Cement KLB835 (Gray) For Sabicha★ KLB831 (Brown) For Hai KLB835 (Gray)	KLBS32 (Black)
Recommended Retail Price	3,520JPY/piece (No tax added)	3,520JPY/piece (No tax added)	24,360JPY/box (No tax added)	2,420JPY/piece (No tax added)	1,460JPY/piece (No tax added)
Sheets/pack	5 pieces/box	2 pieces/box	200 pieces/box	5 pieces/box	10pieces/box
Material	Painted galvalume steel	Painted galvalume steel	SUS301	Painted GL steel sheet	Modified silicone
Shipping unit	Box	Box	Box	Box	Pieces

※1 One bag of nail is for 16 panels. If there is an order for more than 5 bags such quantity of nails will be shipped in one big bag.
 ※2 Approximate color setting for smart corner and smart inside corner. To check the color ask for the samples beforehand.

Product name	Non-sealing accessory for openings★※				
	Aluminum flashing for openings (upside)	Aluminum corner cap	Aluminum flashing for openings (Left, right and upside)	Flashing for openings (upside)	Flashing for openings (downside)
Shape					
Item Number	For Tetsuguro KLGNS152 (Black) For Cement KLGNS154 (Dark stain) For Sabicha KLGNS151 (Brown) For Hai KLGNS154 (Dark Stain)	For Tetsuguro KLGNC52 (Black) For Cement KLGNC54 (Dark stain) For Sabicha KLGNC51 (Brown) For Hai KLGNC54 (Dark Stain)	For Tetsuguro KLGNS252 (Black) For Cement KLGNS254 (Dark stain) For Sabicha KLGNS251 (Brown) For Hai KLGNS254 (Dark Stain)	KLGN12	KLGN12
Recommended Retail Price	4,900JPY/piece (No tax added)	1,300JPY/piece (No tax added)	4,900JPY/piece (No tax added)	1,200JPY/piece (No tax added)	1,320JPY/piece (No tax added)
Pieces/pack	2 pieces/box	4 pieces/box	2 pieces/box	2 pieces/box (left and right sides)	2 pieces/box (left and right sides)
Material	Aluminum	Aluminum	Aluminum	Painted GL steel sheet	Painted GL steel sheet
Shipping unit	Box	Box	Box	Box	Box

※Installation around window openings can be done without sealing.


★: New product.
Release date: 02.03.2020

Installation instruments



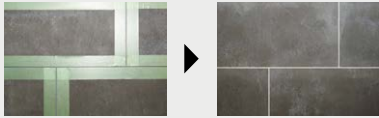
Product name	Single Cutter	Product name	Diamond cutter (Wave type)	Product name	Slater holder
Shape		Shape		Shape and Size	
Item Number	KLKGD	Item Number	KLKGS	Item Number	KLKGH
Recommended Retail Price	121,000JPY (No tax added)	Recommended Retail Price	6,500JPY/piece(No tax added)	Recommended Retail Price	10,780JPY(No tax added)
Weight	Approximately 22kg	Quantity	1 piece	Quantity	1piece/box
Size	1115×440×260mm	Material	Diamond Chips	Accessories	Rubber sheet 20mm x 80mm 2 sheets
Blade size	970mm	Usable rotation speed	<14,500rpm		
Accessories	•Spanner for M8 x M16 that can also be used as a gap gauge •Hexagon wrench 4mm x 1				

typeM_FLAT

Recommended Sealing for SOLIDO typeM_FLAT

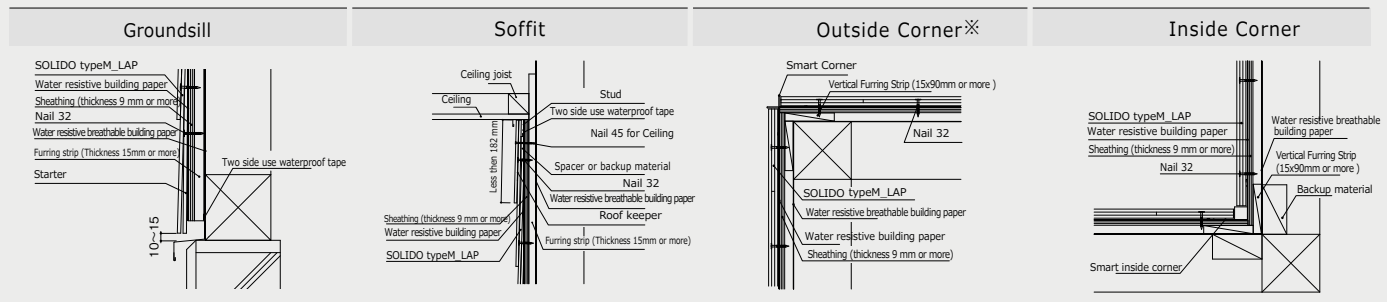
Product name	Tile Ace Pro
Shape	
	JIS A 5548 type I, JIS A 5557
Item number	KLTAG
Recommended retail price	4,000JPY/piece (No tax added)
Sheets/pack and shipping unit	9 pieces/box (Shipment unit: pieces)
Main component	Modified silicone resin adhesive
Stud	Gypsum board, plywood [JAS Class 1 plywood], calcium silicate board (specific gravity 1.0 or more), mortar
Weight	2 kg/piece
Standard application amount	Thickness 3 mm Smooth ground 1.5-1.9kg / m ²
Ambient temperature for bonding	5~35°C

Installation samples

Joint width 1mm	Joint width 5mm
	
Applying sealing at adjacent area	
Sealing applies to the adjacent panel of the siding panel. Before applying sealing protect adjacent area with masking tape.	
	

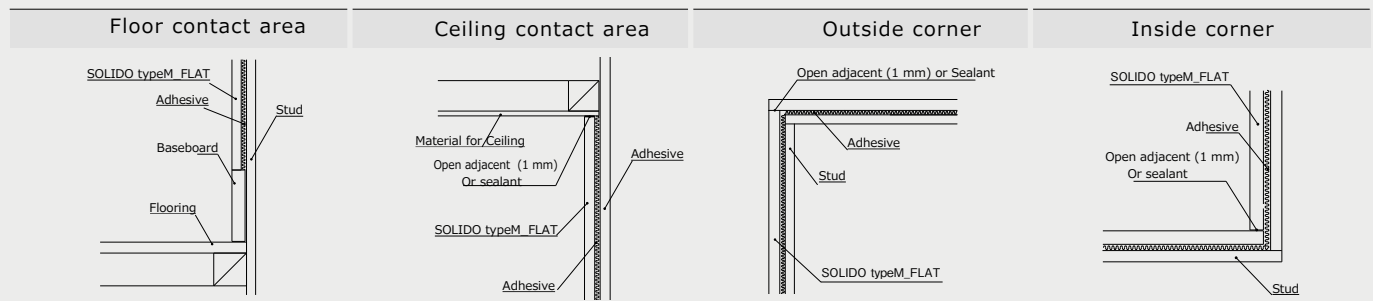
typeM_LAP Details

Details for the reference. For other area details refer to SOLIDO typeM_LAP installation manual posted on KMEW web site.



typeM_FLAT Details

Details for the reference. Sealing application



*Decent stud for installation: Gypsum board (9.5mm or more), plywood (9mm or more), calcium silicate plate (specific gravity 1.0 or more, 6mm or more), mortar

VOC dissipation speed [Results of measurement by third party and VOC dissipation speed value

	VOC dissipation speed (Unit:µg/m ³ h)						Measured by: Panasonic Corporation Product Analysis Center
	Formaldehyde	Toluene	Xylene	Ethylbenzene	Styrene	Chlorpyrifos	
SOLIDO typeM LAP/FLAT/FLAT KENMA	<0.2	<0.2	<0.2	<0.2	<0.2	N.D.	This is a measurement result on the 7th day after the test started according to JISA1901 (Small chamber method), the test method specified in "Standards for VOC Dissipation Speed from Building Materials". The test conditions are: test load rate 2.2m ³ /m, ventilation rate 0.5 times/hour, temperature 28°C, humidity 50%.
Standard (Max)	5	38	120	550	32	—	

N.D.: Not detected

Instructions for the use of product

Exterior		Interior	
LAP	LAP	FLAT	FLAT Kenma
■			
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
■			
■	■	■	■
■			■
			■
■			
■	■	■	
■	■	■	
■	■	■	
■	■	■	
■			
■	■	■	
■	■	■	
■	■	■	
■			
■			
■			
■			
■			
■			

Regarding the product you are considering to use read a part marked with ■ in the left column of the page. Check (■) for the reference.

About the product

- Please contact your local sales manager or distributor for the product warranty.
- Panel has a natural color that comes out of the material, **so the color of each panel differs much.**
No product return applies due to color difference of panels
- Panels color deviation may occur due to installation layout. Check layout prior to installation at the site.
- Fine chips can be seen on the cut surface that is not defective. Hope for your understanding
- Depending on environment influence the panels over the years may warp and flutter, increase or decrease of efflorescence, and the surface color change.
- If applying the panels to a building with shorter eaves, due to environment influence and rain they may turn slightly white in a few years. If color change is not preferable we recommend other products.
- Rust may occur due to iron contained in the raw materials.
- The appearance of natural material such as stone grain (color, size, shape, amount) differs from one to another due to ingredients characteristics of the panel.
- Due to manufacturing characteristics of the product some panels may be included with linear marks on the surface.



Example of color deviation



Example of chipping



Example of fluttering



Example of rust

Examples of different appearance of stone grains (Locally expanded)



Color particles are small and in small amount



Color particles are big and in big amount

Examples of linear marks on the surface (wrinkles)

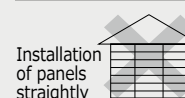


- Panels may have visible scratches due to design.

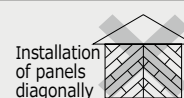
Design Precautions

- Install the panels according to "SOLIDO typeM_LAP Design and Installation Manual".
- ⚠ ● **Apply the panels on a vertical wall. KMEW will not bear responsibility for any other use. Also this product cannot be used as roofs.**
- If applying the panels as exterior wall, do neither shorten the minimum overlaps of the panels nor install straightly or diagonally (Refer to the images, right), as it may cause rain leaks.
- **Do not bend the panel installing on a curved wall, as it may cause cracking or falling of the panel.**
- Do not install panels in areas constantly exposed to water or steam. The panels may warp or deteriorate under these conditions.

Prohibited when applied to exterior wall



Installation of panels straightly



Installation of panels diagonally

Instructions for the use of product

Exterior		Interior	
LAP	LAP	FLAT	FLAT Kenma

	■	■	■	■	● It is not recommended to use panels in the following areas as it may cause deformation or discoloration. <ul style="list-style-type: none"> • Areas with constant water accumulation or area with dirt concern (e.g. toilet, washbasin, kitchen area). Make sure that no water accumulated or dirt stuck on panel surface. • Near the areas where the panel may get hot (e.g. fireplaces, gas stoves, etc.). When using this product in such area, keep sufficient distance between the product and heat source or place a heat shield so that it will not be directly exposed to flames or become hot.
	■	■	■	■	● For details of installation and specification refer to the "Specification Drawing" and "Precautions on application and installation" cited in this catalog or web site. Install panels and accessories properly according to panel property list to prevent panels fall, drop, or damage. <ul style="list-style-type: none"> ● Make sure to put a base board near flooring to take measures against cracks that could be caused by cleaning tools. ● Substrates for installation: gypsum board (9.5 mm or more), plywood (9 mm or more), calcium silicate board (specific gravity 1.0 or more, 6 mm or more), and mortar. ● Make sure to make joint width 1 mm or more. If panels installed butt-mounted, cracks, chips and gaps can be visible in the joint parts. ● When using indirect lighting, narrow joints emphasize the unevenness. If it is difficult to adjust the unevenness, recommend to make the joint width wider.
					▲ ● Usage and Installation precautions <ul style="list-style-type: none"> ● Make sure to keep the panels indoor prior to installation. Make sure to cover the panels with water proof sheet if the panels stored in outdoors. ● Wet parts of panel become strong alkaline like mortar and concrete panels. If you touch wet area of panel, wash your hands thoroughly with water. ● Make sure to handle the panels carefully otherwise scratches can be visible. ● Fix an incidental to the structure or the safe substrate to avoid falling off. Fixing an incidental only to a panel may cause damage of the panel or the incidental drops off. ● The color of each panel differs much so check the color prior to installation. ● Panel has different finishing on front and back sides. Lot number and product number are printed on back side of the panel. ● Install the panels according to "SOLIDO type M_LAP installation manual". ● Install panel with nail (attached) or screw.
	■	■	■	■	● Install the panel with specified number of nails (screws), otherwise the panels wind resistance performance may decrease and cause scattering during strong winds. <ul style="list-style-type: none"> ● Fasten the panels with nail (screw) at least 30x30 mm or more from the panel's edge. Insufficient interval from the edge may cause panel's cracks and breakage. ● Do not fasten nails (screws) too deep. Fastening deep with nail (screw) may cause a crack or uncorking of panel tip. ● Fasten small panels with ring nail 45 (for exposed nailing) together with adhesive (Exterior wall: roof keeper, Interior wall: Tile Ace Pro). *Pre-drill a pilot hole ϕ2mm before fixing a ring nail 45. ● Use a single cutter or diamond cutter (genuine product or commercial product) for cutting a panel. *Use a diamond cutter for fine processing.
	■	■	■	■	● If using a commercial type of diamond cutter, apply a blade for concrete with dry cutting type. Blade shape is on the image from the right. <ul style="list-style-type: none"> *It cannot be used for wood, steel, and fiber cement siding panel because blade may burn.
	■	■	■	■	● When cutting a panel with a diamond cutter, use a cutting tool with dust collection function, lay a dust-proof mat or things alike to protect from dust. <ul style="list-style-type: none"> ● Follow the precautions below in order not to make harm to workers' and residents' health by making dust and smell during the installation. <ul style="list-style-type: none"> • Ventilate room during installation to get dust and odors out of the room. • After installation ventilate rooms well so no odor remains inside the room. ● Use SOLIDO type M_FLAT adhesive "Tile Ace Pro" or equivalent adhesive (1 liquid moisture curing modified silicone resin elastic adhesive, product which is compliant with JIS A 5548) to install the panel. ● Do not use dry-hardening (emulsion and solvent type) adhesives. This may cause panel warpage or poor adhesion. ● Install this product according to the procedure below. <ul style="list-style-type: none"> • Use a 3 mm thickness to apply the standard amount of adhesive evenly on the entire surface of substrate. (Standard application amount of Tile Ace Pro: 1.5 to 1.9 kg / m^2) • After applying adhesive, press the entire surface of the panel to make it stick well. Check adhesive usable time in advance and use it within the usable time. (Tile Ace Pro estimated usable time: within 30 minutes / 35 °C, within 60 minutes / 23 °C) -Peel off one or two sheets of the panel at the start of sticking on, and check if 60% or more of adhesive is evenly adhered to back side of the panel. If the application condition is not even or less than 60%, the product may warp, float, or fall off.
	■	■	■	■	● It is difficult to remove Tile Ace Pro once it is applied so be careful when apply it. <ul style="list-style-type: none"> *If is stuck, wipe it off with a rag to prevent it from spreading before it hardens, and also wipe with alcohol to remove it easily.
	■	■	■	■	● Adjust the substrates unevenness, if substrates not level, after installation of the panel there may be steps on the surface. Adjust unevenness prior to installation. (If you use Tile Ace Pro: Increase the comb size from 3 mm to 5 mm, etc.) <ul style="list-style-type: none"> ● Apply caulking at joints after adhesive has completely hardened. ● No repair accessories set.



Exterior		Interior	
LAP	LAP	FLAT	FLAT Kenma
■			
■			
	■	■	■
	■	■	■
■	■	■	■
■	■	■	■

Maintenance

- Use a soft brush and wash lightly with water to remove bird droppings, dust particles, algae, mold and etc. If washing with water is not helpful, wash with soft cloth with diluted neutral detergent on it, then rinse with tap water.
- To prevent deterioration of panel make sure to remove frequently snow from the base of wall, under roof eaves, inside corners, balconies, etc.
- Wipe with a dry cloth for daily maintenance.
- Wipe it with a soft cloth (or sponge) soaked in water or a neutral detergent If the panel gets dirty. Wipe off the surface moisture with a soft cloth or sponge.
*If using a neutral detergent to clean the panel, wipe it off with a soft cloth or sponge.
- Do not wash the surface of panel with anything other than water or a neutral detergent as it may change the surface of the panel.
*Do not use lacquer thinner, kerosene, petroleum, hard brush such as metal scrubbing brush etc., or cleaning with high pressure water or steam cleaning as it may damage the appearance of panel.
*If using acidic detergent white efflorescence may disappear.

Items cannot be used for cleaning

Lacquer thinner, synthetic detergent, kitchen detergent, toilet detergent, cleanser, kerosene, oil, benzine, polishing powder and etc.

Before purchase

- Before purchase
 - The manufacturer's recommended retail price for the panel listed in this catalog does not include delivery/ equipment adjustment fee, construction fee /consumption tax, and collection fee for left-over panels.
 - Due to product improvements, specifications and appearance may be subject to change without prior notice.
 - The printed sample photo and the real sample color may differ slightly.
 - For inquiries about the contents of this catalog, contact our nearest store.
- If the information provided at the store was not enough please contact us.

For catalog inquiry please contact to your local sales manager or distributor

©KMEW Co., Ltd. 2020
This catalogue was printed in January 2020



For details refer to the web site below
<https://www.kmew.co.jp/shouhin/solido/typem.html>

KMEW Co., Ltd web site <https://www.kmew.co.jp/>

