



TERRACOTTA WALL CLADDING

TERRACOTTA SMART FACING BRICK

T-BRICK

T Brick – Robust façade brick system

- T Brick is a unique and innovative cladding system
- Ventilated façade system
- It offers a real brick aesthetic
- Rainscreen
- Excellent thermal insulation
- It is a flexible, functional and creative system
- T Brick tiles are available in a wide range of colours, textures and sizes
- A wide range of special shaped bricks addressing all the requirements of a façade



- **Strong and Durable**

- High quality steel POSCO or SUS430 for steel backing section with a specially engineered installation design
- Low water absorption brick tiles
- High precision clay tiles for mechanical fixing

- **Fast and Simple**

- Building with T Brick can offer considerably faster construction speed than traditional brickwork, and is quick and easy to install.

- **Versatile and Aesthetic**

- T Brick is designed to blend with or compliment any new build or refurbishment project. The T brick tiles are available in a variety of colours, textures and even bespoke sizes offering a wide range of design possibilities.

T Brick – Dry fixing system

T-Brick

- ✓ Robust design
- ✓ Dry fixing
- ✓ Patent in USA
- ✓ QC by ISO 10545



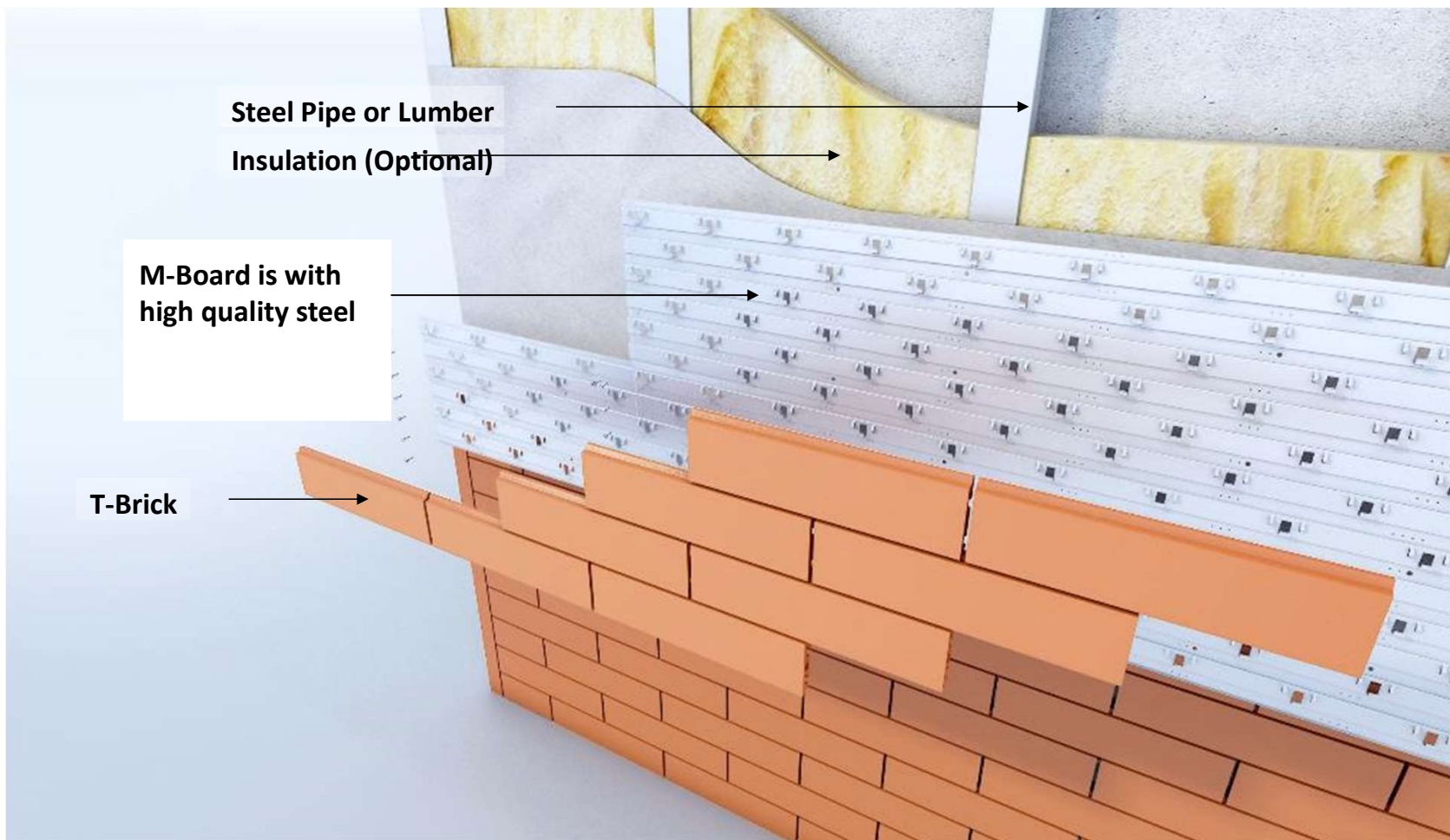
Tile sizes
400 x 100 x 20mm
300 x 75 x 20mm

M-Board

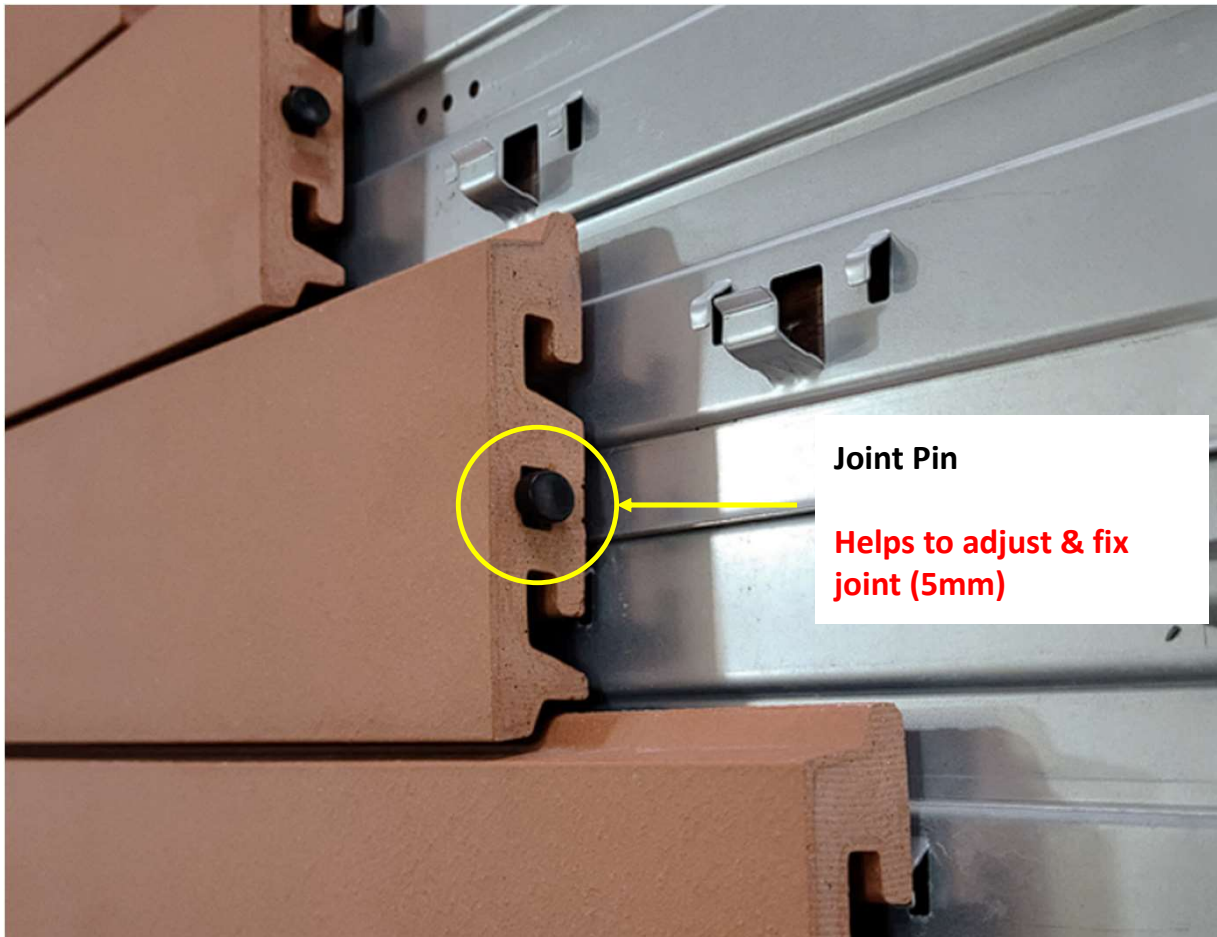
- ✓ Designed & Made in Korea
- ✓ Patent in USA
- ✓ No Cement
- ✓ Dry Construction



T Brick – Dry fixing system



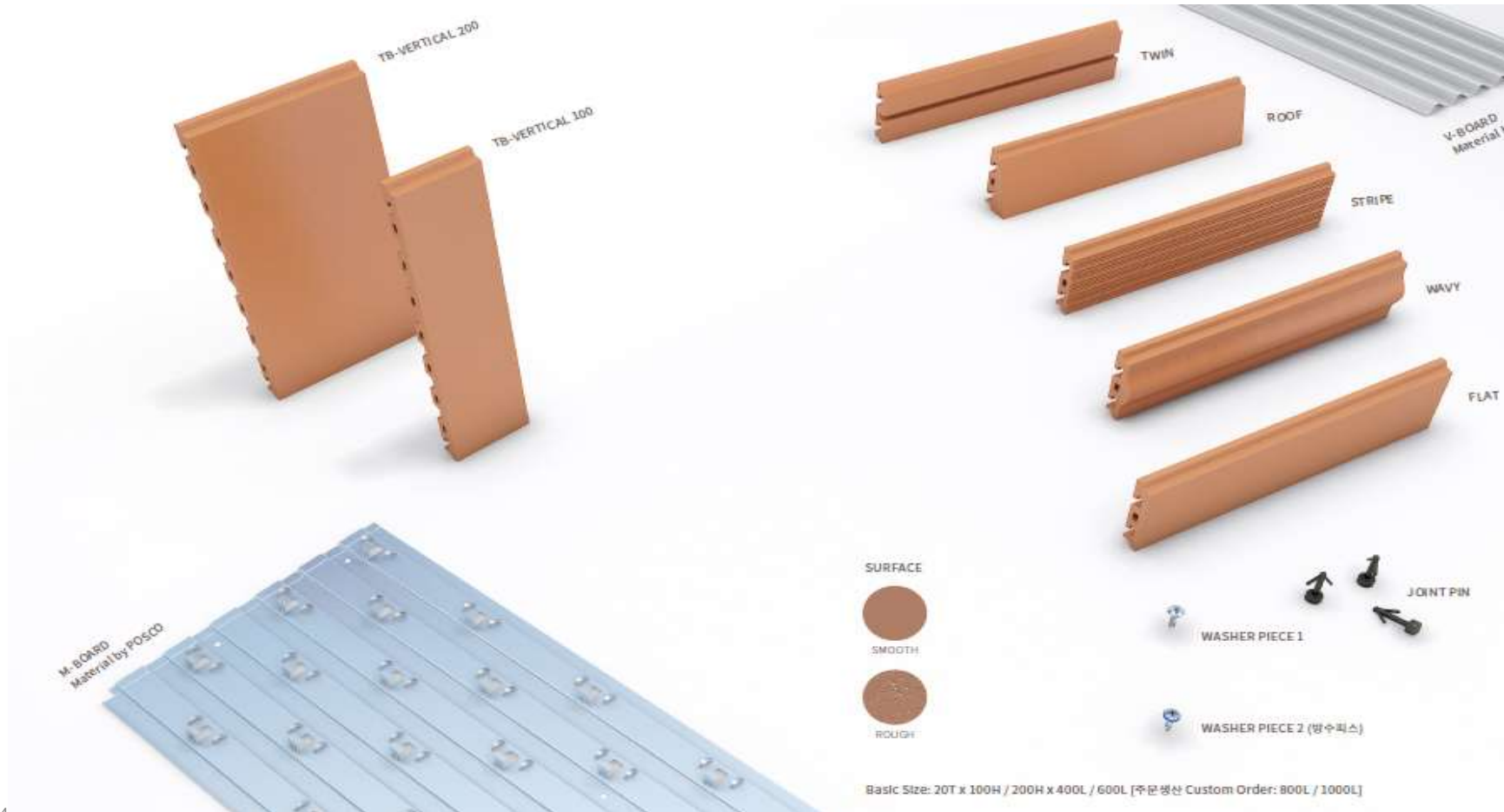
T Brick – Dry fixing system



T Brick – Corner brick



T Brick – Vertical bricks



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States
of
America



To Promote the Progress

of Science and Useful Arts

The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this United States

Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.S.C. 354(a)(1) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Katherine Kelly Vidal

DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE


Wienerberger



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(12) **United States Patent**
Yeo

(10) **Patent No.:** US 11,459,769 B2
(45) **Date of Patent:** Oct. 4, 2022

(54) **BRICK PANEL ASSEMBLY SYSTEM**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 12 days.

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(21) Appl. No.: 17/010,602

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(51) **Int. Cl.**
E04F 13/08 (2006.01)

(52) **U.S. Cl.**
CPC — E04F 13/083 (2013.01); E04F 2201/0517 (2013.01)

(58) **Field of Classification Search**
CPC — E04F 13/0819; E04F 13/0803; E04F 13/083; E04F 13/142; E04F 2201/0517
See application file for complete search history.

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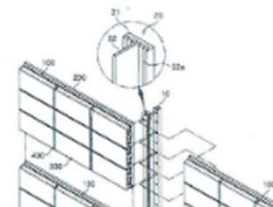
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(57) **ABSTRACT**

A system for dry execution of a finishing material according to one aspect of the present invention can comprise an angled rod fixed to the outer wall of the building, a fixing bracket in which both ends are fixed and installed to the angled rod, an insulation material provided on one side of the fixing bracket to exert insulation and water blocking performance, and a brick which is provided on the other side of the fixing bracket, and in which an insertion groove is formed on one side that faces with the fixing bracket to be combined in a way to insert to the fixing bracket, wherein the fixing bracket comprises an insertion clip which is inserted to the insertion groove to allow the brick to combine with the fixing bracket, and an elastic clip which is provided on the left and right sides of the insertion clip respectively to provide elastic force that pushes in a direction of the other side of the brick with the insertion clip inserted to the insertion groove.

6 Claims, 5 Drawing Sheets



T Brick Product parameter



CHARACTERISTIC		ISO 13006 REQUIREMENT	EUTO TERRACOTTA	REFERENCE	
Sampling	Sampling acceptance	Not applicable	Not applicable	ISO 10545-1	
Dimensions and surface quality	Surface quality	≥ 95%	98%	ISO 10545-2	
	Length and width	± 2.0%	- 0.19%	ISO 10545-2	
	Thickness	± 10%	+ 0.006%	ISO 10545-2	
Physical characteristics	Water absorption	3.0% < E ≤ 6.0%	4.40%	ISO 10545-3	
	Breaking Strength	Modulus of rupture	≥ 20N/cm	33.8N/cm	ISO 10545-4
		Breaking strength	≥ 950N	1809N	ISO 10545-4
	Impact resistance	Report test result	0.79	ISO 10545-5	
	Abrasion Resistance	Unglazed	< 393mm ³	147mm ³	ISO 10545-6
		Glazed	Report test result	6 Mohs	ISO 10545-7
	Linear thermal expansion	Report test result	7.7 × 10 ⁻⁶ /°C	ISO 10545-8	
	Thermal shock resistance	Report test result	0.192mm/m	ISO 10545-9	
	Moisture expansion	Report test result	Not applicable	ISO 10545-10	
	Crazing resistance	Report test result	Not applicable	ISO 10545-11	
	Frost resistance	Report test result	Not applicable	ISO 10545-12	
Color differences	Report test result	Conforms	ISO 10545-16		
Chemical characteristics	Acid/Alkalis resistance	Report test result	Not applicable	ISO 10545-13	
	Resistance to staining	Unglazed	Class 4	ISO 10545-14	
		Glazed	Minimum class 3	Not applicable	ISO 10545-14
	Hazardous substances	Lead and cadmium release	Not detected	ISO 10545-15	
Mock up test report	Wind pressure resistance		Not applicable	✘ Mock-up test report can be provided	
	Earthquake resistance		Not applicable		

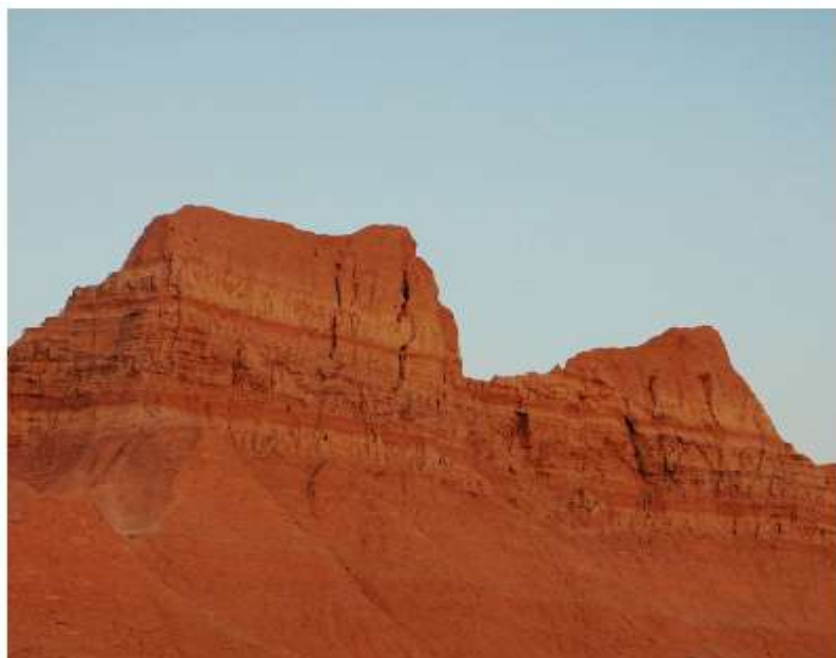
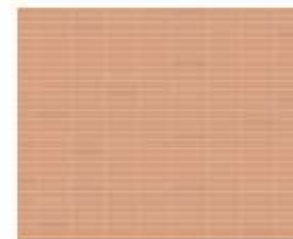
T Brick Colour options

NATURAL COLORS

LIGHT RED
라이트 레드



CAPPUCCINO
카푸치노



roverchon/Unplash



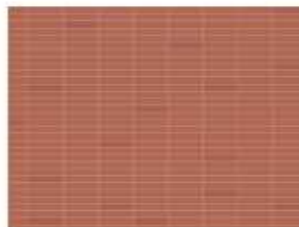
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T Brick Colour options

BURGUNDY
버건디



SMOOTH



Unsplash

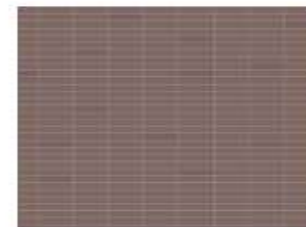
CHOCOLATE
초코릿



SMOOTH



ROUGH



Unsplash

T Brick Colour options



SANDY

샌디



SMOOTH ROUGH

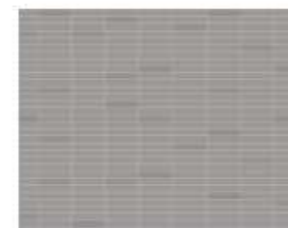


GRAY

그레이



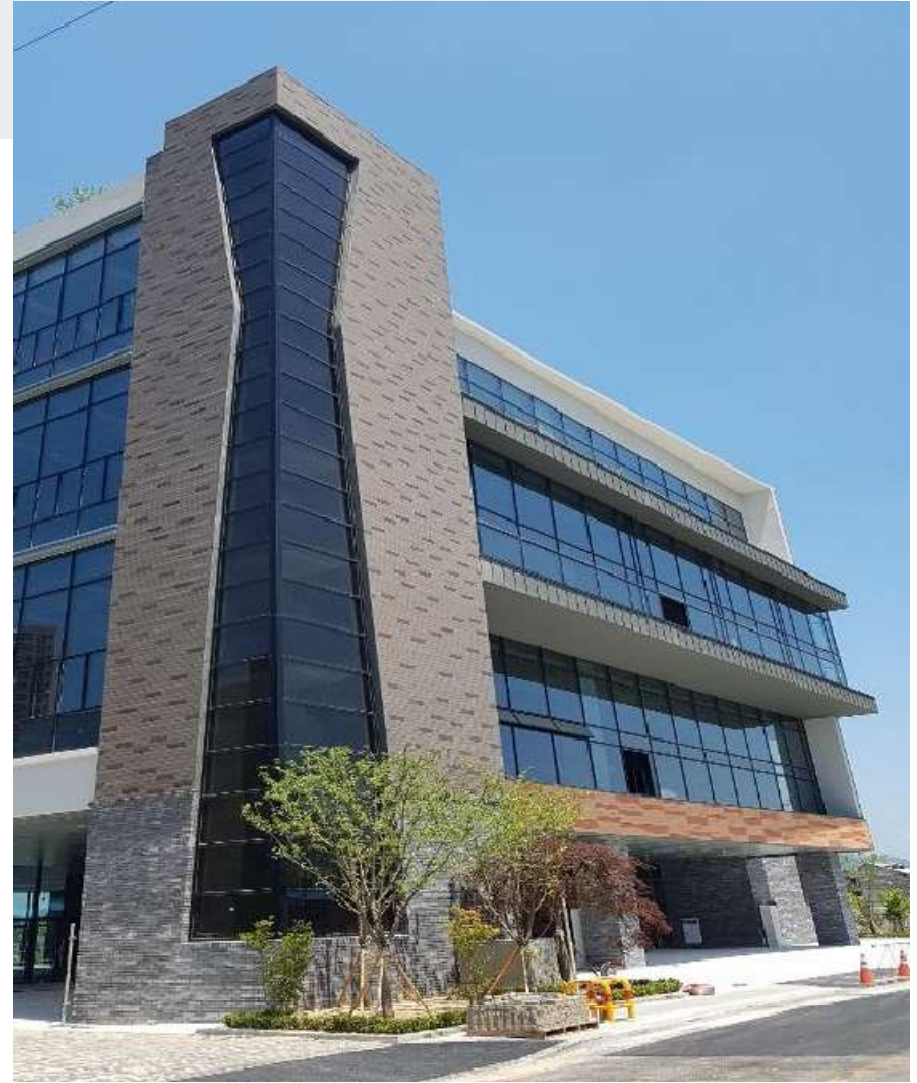
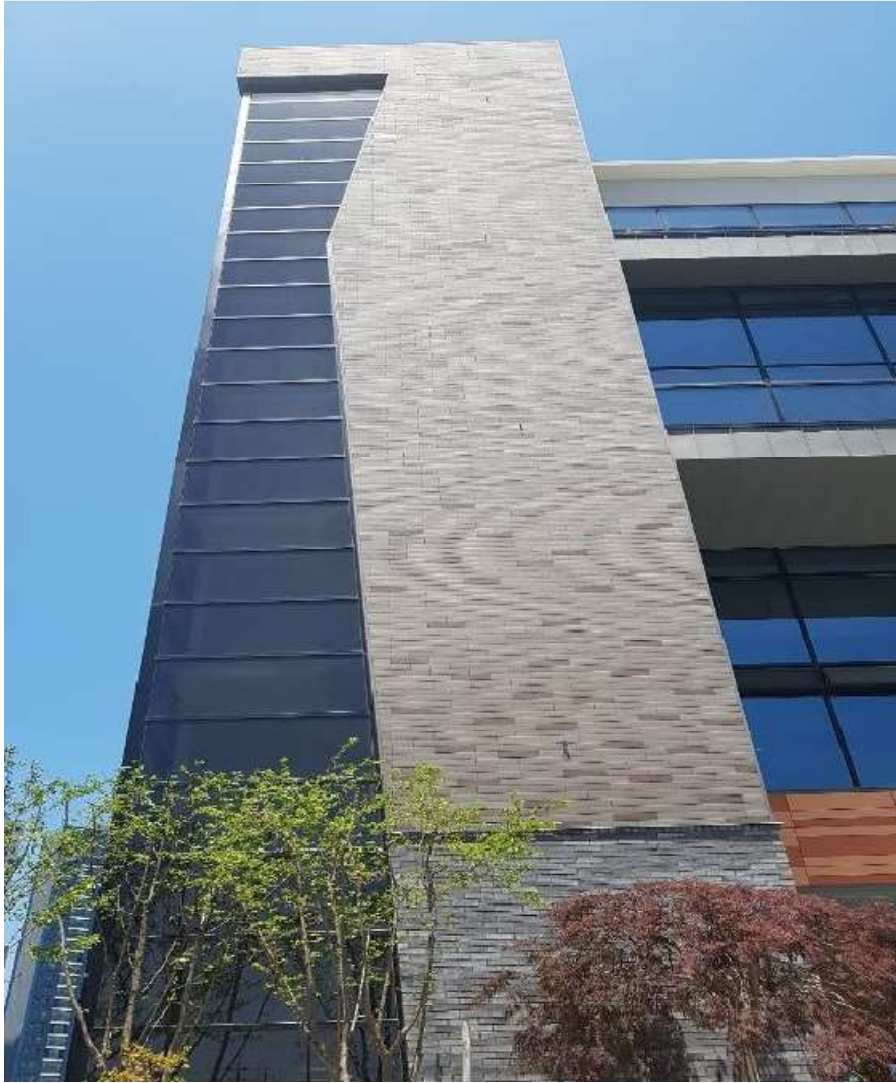
SMOOTH ROUGH



Jan Justin de Vasconcelos on Unplash



dbial on Unplash













Townhouse in Seoul





