Guiyi Ultra-High Performance Concrete Panel (UHPC) Installation Guide

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技术参数与工具

Compressive Strength	Flexural Strength	Mohs Hardness	Abrasion Resistance	Drop Ball Impact Resistance	Water Absorption Rate	Density	Stain Resistance	Radioactivity	Fire Resistance
113	13.4	4	16	2.4	1.7	2.2	58	无	A

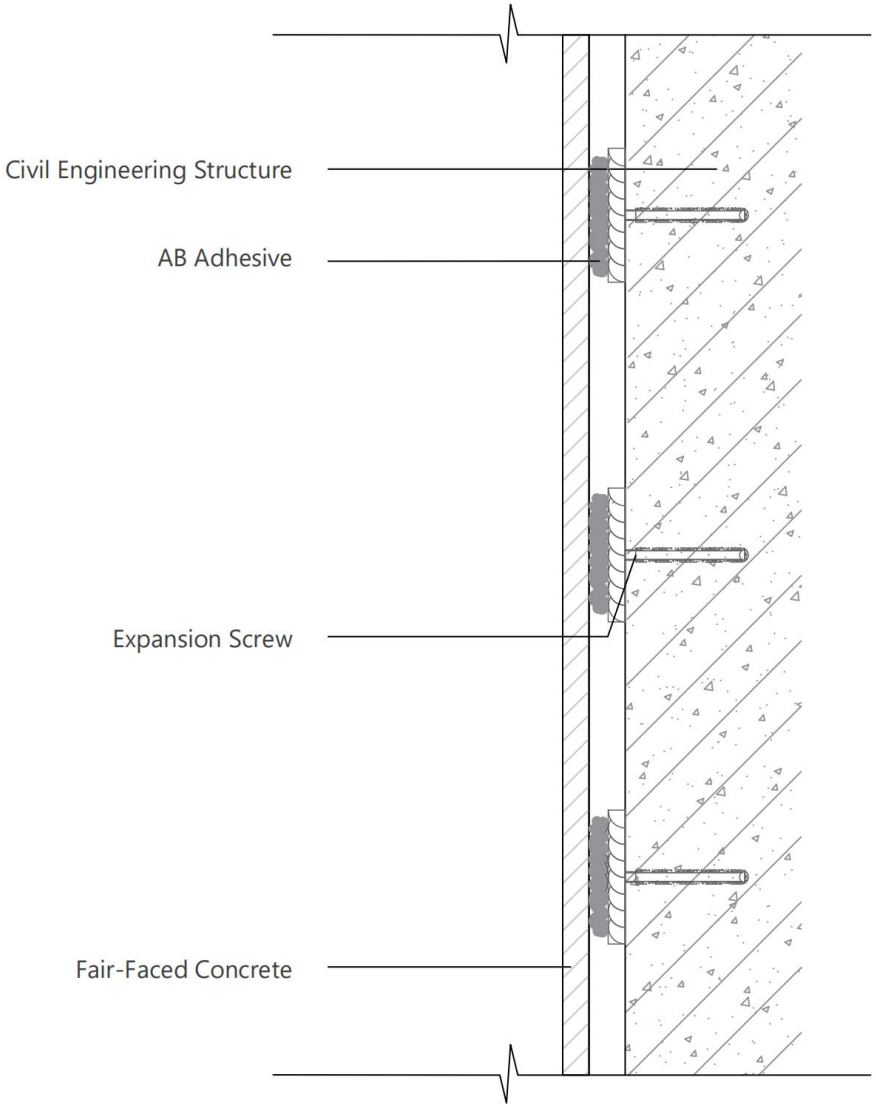
Stone Cutting Machine	Spirit Level	Leveling Device	Painter's Tape	Do Not Use Clear Tape
				

ABStructural Adhesive Dot Fixing Method

Panel Thickness: 18mm ≤

Suitable for indoor construction; not recommended for outdoor use.

Utilize the strong bonding capability of AB structural adhesive to adhere the panels to load-bearing walls or wood-based substrate walls.

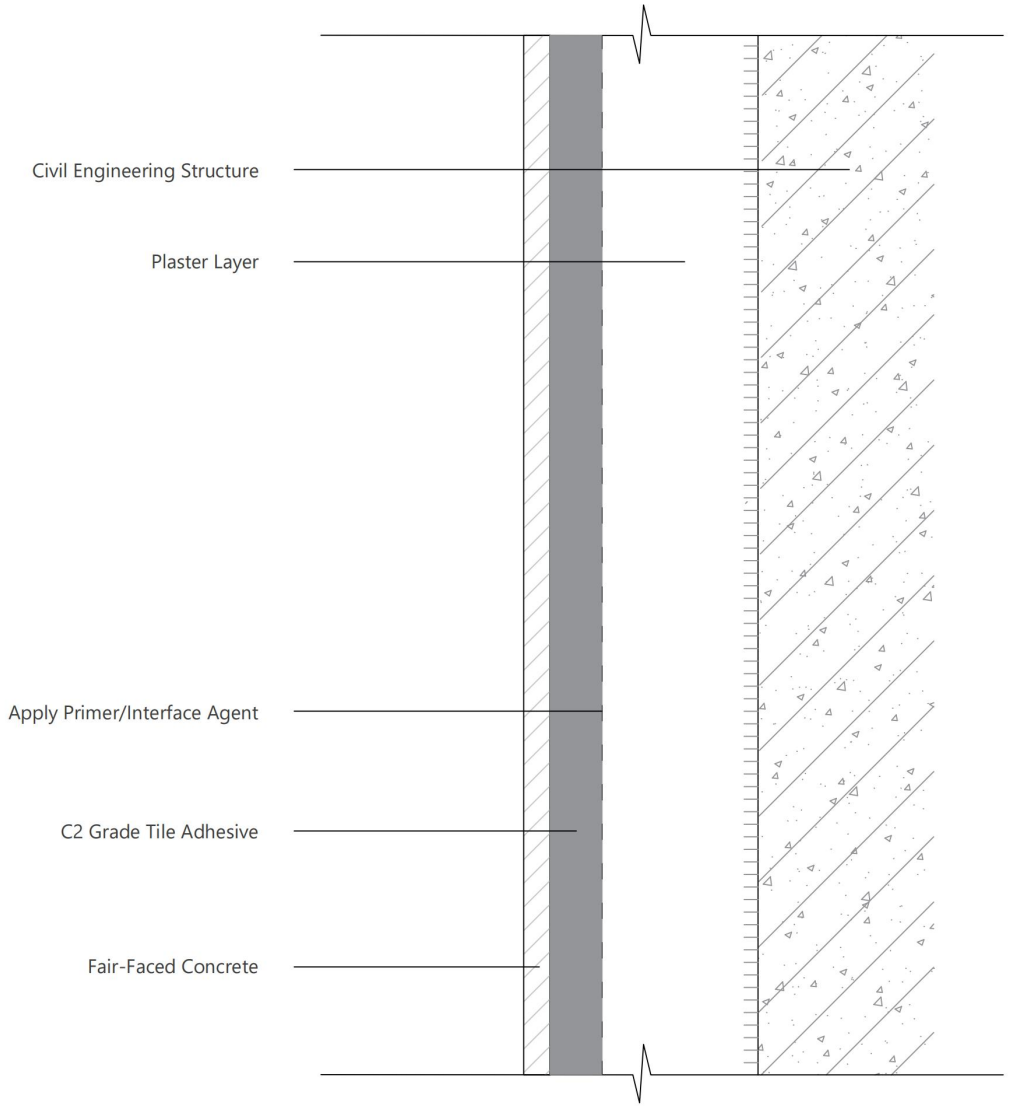


Wet Bed Method for Tile Adhesive Application

Panel Thickness: 15mm ≤

Suitable for indoor construction; not recommended for outdoor use.

Utilize the strong bonding capability of AB structural adhesive to adhere the panels to load-bearing walls or wood-based substrate walls.

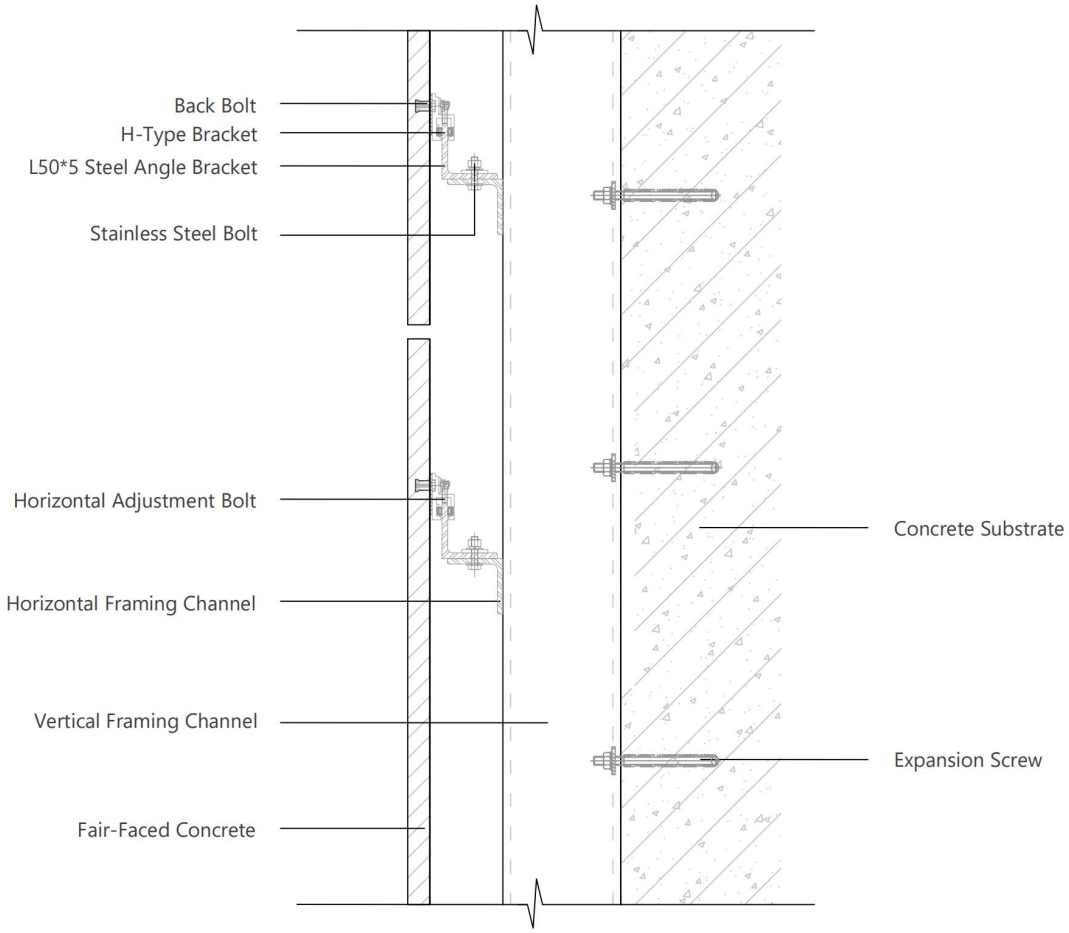


Back Bolt Dry Hanging Method

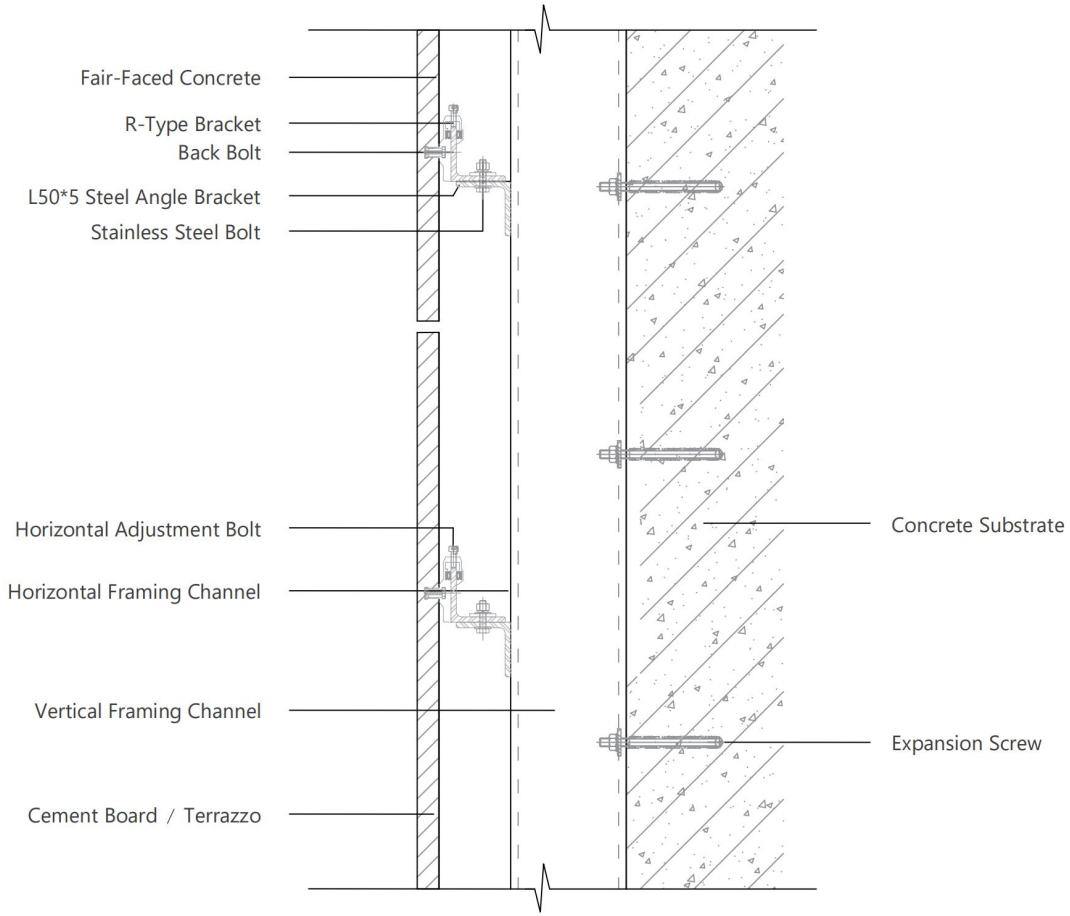
Requirement: Panel Thickness ≥ 15mm

The dry hanging method involves embedding bolts into the panels and connecting them to the framing system using specialized fittings. This is a safe, stable, and highly efficient construction technique.

H Profile Hanger



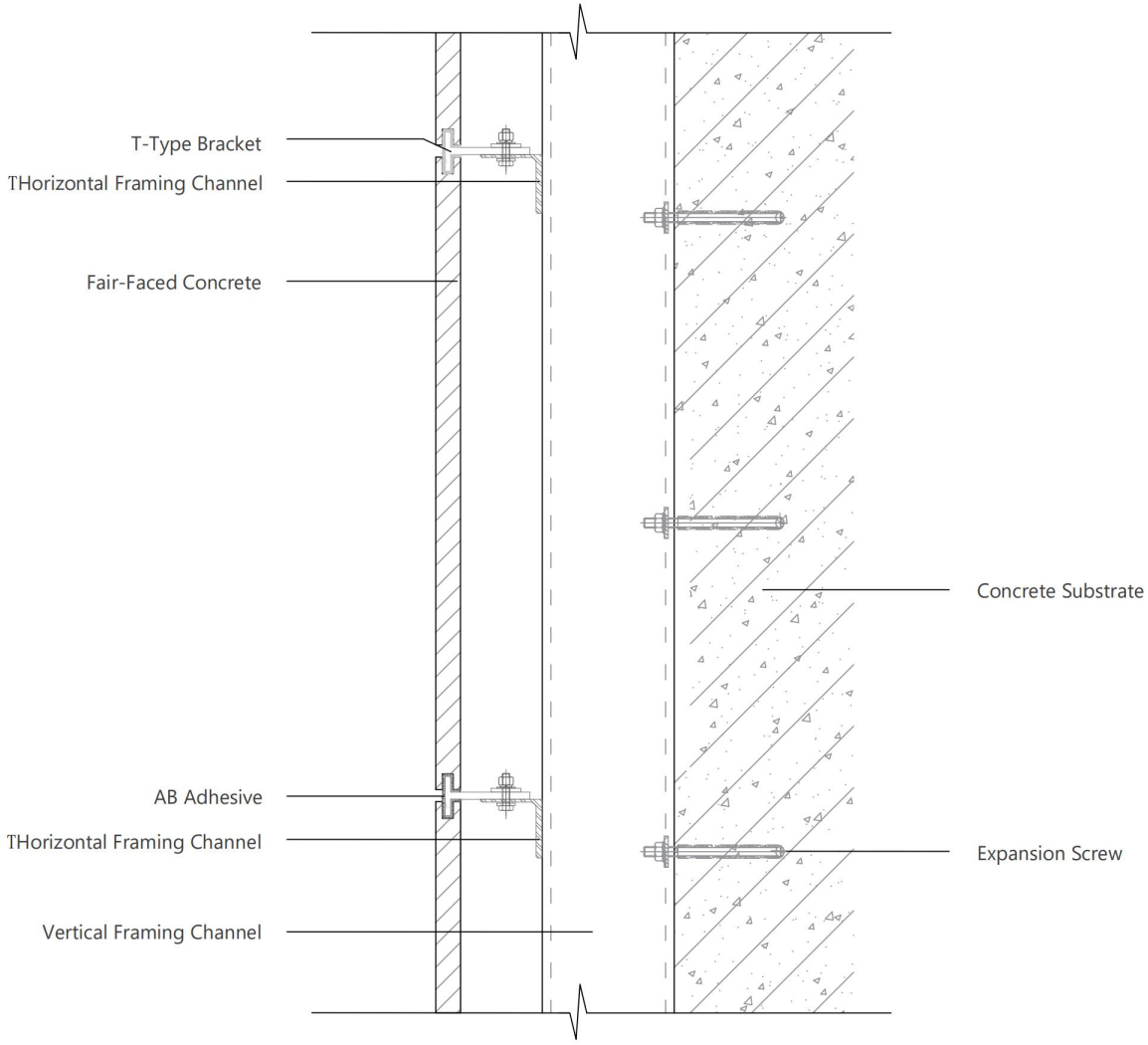
R Profile Hanger



Grooved Dry Hanging Method

Requirement: Panel Thickness ≥ 18mm

This dry hanging method involves cutting 10mm deep short slots or continuous slots on the sides of the panels using specialized grooving equipment. The panels are then connected to the framing system using dedicated fittings.



PRECAUTIONS

1、Handling and Protection:
During unloading, moving, and installation, please wear clean gloves to prevent contamination of the product surface by mud, cement mortar, paint, adhesive, or other pollutants, which may be difficult to remove.

2、Fragile Items Handling:
Handle fragile items with care. Avoid dragging, knocking, or scratching with hard objects to prevent irreparable damage.

3、Timely Use and Storage:
Use the products as soon as possible after receipt. During storage, avoid exposure to water and damp environments. If the product gets damp inside the packaging, it may not dry evenly, potentially causing water stains on the surface.

4、Orderly Usage:
Remove the panels from the packaging box as needed and in an orderly manner. Do not remove the outer packaging before installation to avoid deformation caused by uneven stress over time.

5、Color Difference Notice:
Slight color variations or uneven coloring in fair-faced concrete panels are normal. If you have any concerns, please contact the supplier for clarification.

6、Auxiliary Fixing:
Use painter's tape for auxiliary fixing of the panels. Do not use transparent tape or strong adhesive tape, as they may leave marks that are difficult to remove.

7、Construction Standards:
Strictly follow the construction drawings. Do not mark, draw, or write on the panel surface, as these marks may not be completely removable.

8、Adhesive Recommendation:
For installation, use C2 tile adhesive or neutral structural adhesive to ensure optimal installation results and stability.

检测报告

Guangdong Yunfu Supervision Testing Institute of Quality & Metrology

China National Quality Inspection and Testing Center for Stone Products(Guangdong)

TEST REPORT ATTACHMENT No.SCW20220089

No.	Test items	CNAS Test standard (method)	CMA Pursuant standard (method) name and serial number (including year number)	Units	Requirements T/CSBZ 011—2019 Dry hanging for wall	Wet combining for floor and wall	Table facet	Test results
1	Water absorption	Test methods for agglomerated stone—Part 1: Determination of apparent density and water absorption GB/T 35160.1—2017	Test methods for agglomerated stone—Part 1: Determination of apparent density and water absorption GB/T 35160.1—2017	%	≤2.0	≤2.0	≤1.2	1.70
2	Apprent density			g/cm^3	≥2.3			2.21
3	Compressive strength	Test methods for agglomerated stone—Part 3: Determination of compressive strength GB/T 35160.3—2017	Test methods for agglomerated stone—Part 3: Determination of compressive strength GB/T 35160.3—2017	MPa	≥80	≥50	≥80	84
4	Flexural strength	Test methods for agglomerated stone—Part 2: Determination of flexural strength GB/T 35160.2—2017	Test methods for agglomerated stone—Part 2: Determination of flexural strength GB/T 35160.2—2017	MPa	≥10	≥8	≥12	12.2
5	Abrasion resistance	Test methods for natural stone—Part 4:Determination of abrasion resistance GB/T 9966.4—2020	Test methods for natural stone—Part 4:Determination of abrasion resistance GB/T 9966.4—2020	mm	——	≤38	——	16.0
6	Mohs hardness	Artificial stone JC/T 908—2013 (2017) Appendix A	Artificial stone JC/T 908—2013 (2017) 6	——	≥4	≥4	≥5	4

Verifier : 林晓霞 Inspector: 刘旭

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7	Impact resistance		Test methods for agglomerated stone—Part 6: Determination of impact resistance GB/T 35160.6—2017	Test methods for agglomerated stone—Part 6: Determination of impact resistance GB/T 35160.6—2017	J	≥1.5			2.4
8	Stain resist-ance	The value of stain resistance	Artificial stone JC/T 908—2013 (2017) Appendix E	Artificial stone JC/T 908—2013 (2017) 6	——	≤80	≤80	≤70	58
		The max depth of blots			mm	≤0.2	≤0.2	≤0.1	0.06
9	Radioactivity		Limits of radionuclides in building materials GB 6566—2010	Limits of radionuclides in building materials GB 6566—2010	——	Radiation conforming to A grade of decorative materials in GB 6566			$I_{Ra}=0.1$ $I_{\gamma}=0.1$ Class：A
Notes	The max value of stain resistance was 5 which included edible soy sauce, blue water-soluble ink, hair dye (contrast color), nail violet solution and red mercury solution (2%) after the testing for test item 8.								

No.	Test items		CNAS Test standard (method)	CMA Pursuant standard (method) name and serial number (including year number)	Units	Requirements	Test results
10	Heavy metal limit	Soluble plumbum	Idoor decorating and refurbishing materials—Limit of harmful substances of wood based furniture GB 18584—2001	Idoor decorating and refurbishing materials—Limit of harmful substances of wood based furniture GB 18584—2001	mg/kg	≤90	28.10
		Soluble cadmium			mg/kg	≤75	0.37
		Soluble chromium			mg/kg	≤60	10.50
		Soluble mercury			mg/kg	≤60	0.056
Notes	The test item 10 refered to GB/T 35157—2017 for testing.						
End							

Verifier : 林晓霞 Inspector: 刘旭

广东省云浮市质量计量监督检测所

国家石材产品质量检验检测中心（广东）

检 验 报 告 附 页 No. SCW20230609

序号	检验项目	CNAS 检测标准（方法）	CMA 依据的标准（方法）名称及编号（含年号）	单位	标准要求 T/CSBZ 009—2019 无机岗石	无机石英石	检验结果
1	弯曲强度	合成石材试验方法 第2部分：弯曲强度的测定 GB/T 35160.2—2017	合成石材试验方法 第2部分：弯曲强度的测定 GB/T 35160.2—2017	MPa	≥10	≥12	13.4
2	压缩强度	合成石材试验方法 第3部分：压缩强度的测定 GB/T 35160.3—2017	合成石材试验方法 第3部分：压缩强度的测定 GB/T 35160.3—2017	MPa	≥50	≥80	113
备注	检验项目第2项压缩强度中编号5和6的样品尺寸为50mm×50mm×30mm。						

以下空白

审核：刘旭 主检：林晓霞

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G U I . Y I

" Our recycling practice is
more than just a dream,
it's a commitment to each piece of
waste redeemed.
With tiny efforts, we can turn the world around,
and make every piece of trash become
something profound."