





#### PRODUCT DESCRIPTION

FRONTEK PANELS FOR VENTILATED FAÇADES

#### ADVANTAGES OF VENTILATED FAÇADES

Ventilated façades main difference with other façade solutions consists on the inclusion of an external layer, separated from the main wall by an air chamber. This allows to improve the waterproofing, acoustic, thermal and aesthetic properties.

The main components in a ventilated façade are:

- Covering: the skin of the building, composed by ceramic plates.
- Anchoring structure: elements that support and fix the covering against forces.
- Air chamber: between the covering and the insulation.
- Insulation and waterproofing: applied on the outer face of the supporting wall.
- Supporting wall: it transmits the forces to the main building structure.

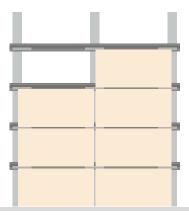
#### ADVANTAGES OF FRONTEK

Frontek extruded ceramic panels are the best solution for ventilated façade covering, as long as it has several functional and construction advantages:

- Easy and quick to install
- Great strength and durability







#### SUPER PLUS SYSTEM

STRENGHT SOLUTION FOR HIGH REQUIREMENTS

#### SUPER PLUS SYSTEM FOR FRONTEK PIECES:

This highly technical solution is specially designed for the toughest construction requirements. While it is fast and easy to assemble, horizontal bars provide more resistance against high wind forces and allows bigger distance between vertical profiles.

Frontek panels can easily be mounted and replaced by sliding the fitting clips along the horizontal bar making it easy to maintain.



The skin of the building consists on Frontek ceramic plates, which protect the main wall against sunlight, rain and wind.

Frontek panels are sustained by the anchoring structure, comprising extruded aluminum clips that fit easily onto the horizontal guides.

The support system consists on horizontal extruded aluminum bars screwed to vertical squared-shaped profiles. This horizontal guides provide more stability and strenght and transfers the loads to the vertical sections. The vertical structure is responsible for transmitting the forces of walls, floors, etc... to the building structure.

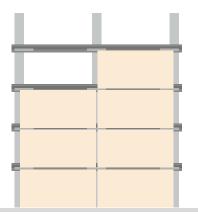
The vertical structure is fixed to the bearing wall by supporting steel brackets. Retaining brackets are added in order to help to prevent horizontal movement of the vertical profiles against wind forces.

The target of this ventilated façade system is to create an air chamber between the coating and the insulation material, which lets the air flow up with the consequent thermal, acoustic, and aesthetic benefits.





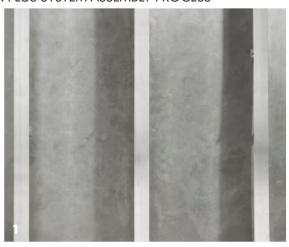




#### PICTURES DOSSIER

WHEN REALITY SURPASS EXPECTATIONS

#### SUPER PLUS SYSTEM ASSEMBLY PROCESS













# frontek Frontek ceramic panel. Super Plus System









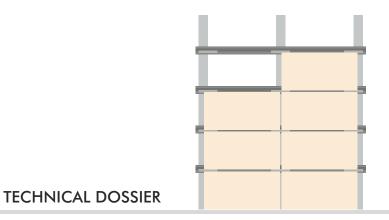










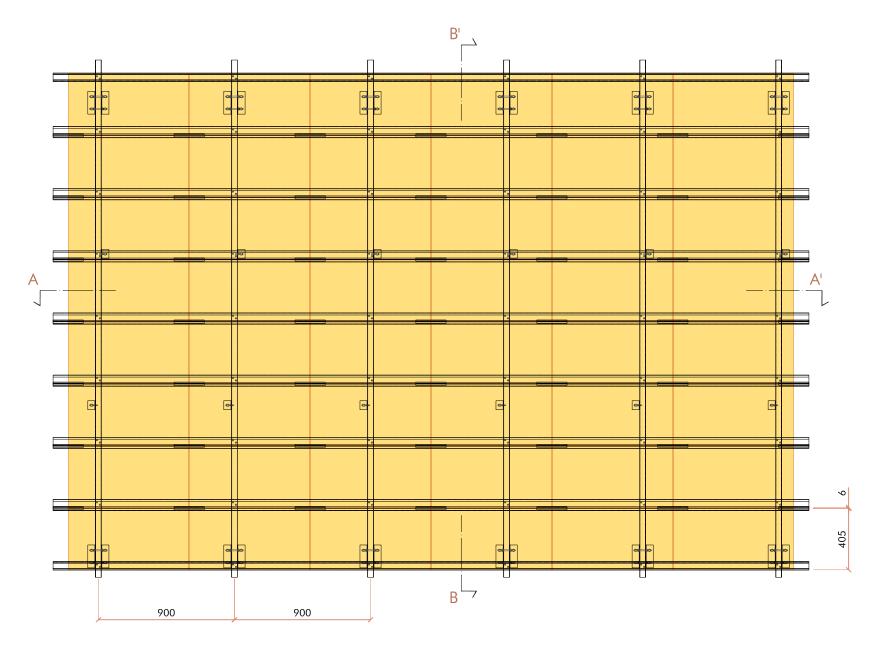


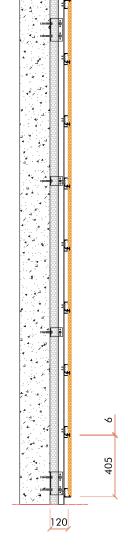
WE HELP YOU TO BUILD YOUR DREAM

#### INDEX OF DRAWINGS IN A3 FORMAT:

- 1- FRONTEK STANDARD MODULE
- 2- ELEMENTS AND ACCESORIES
- 3- HORIZONTAL PROFILES WITH FRONTEK PIECES
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FRONTEK STANDARD MODULE SUPERPLUS SYSTEM





B-B'

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PROJECT -

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#### KEY PLAN/ELEVATION

STANDARD MODULE SUPERPLUS SYSTEM

DESIGN -

DRAWING BEATRIZ QUINTANA

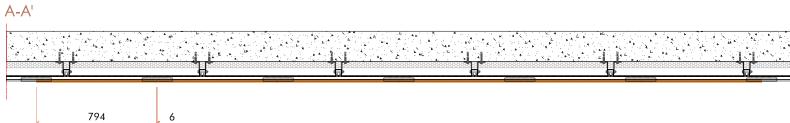
REVIEW -

SCALE 1/250 SIZE A3

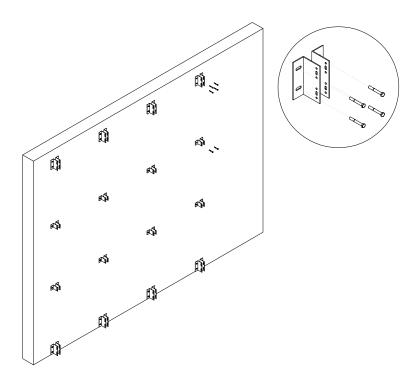
UNITS MM

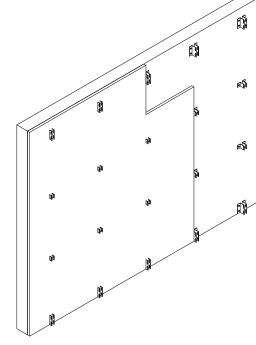
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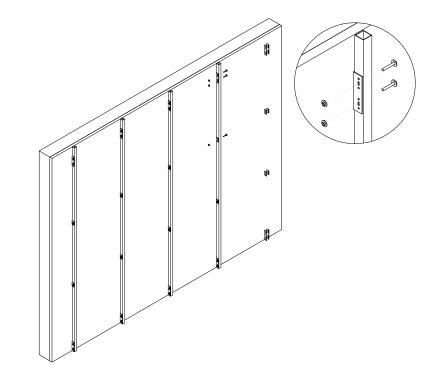
**SHEET** 01-01



#### FRONTEK STANDARD MODULE. CONSTRUCTION DIAGRAM



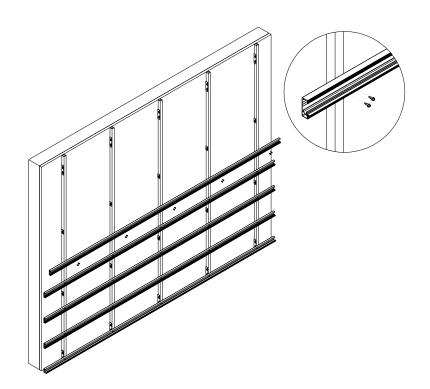




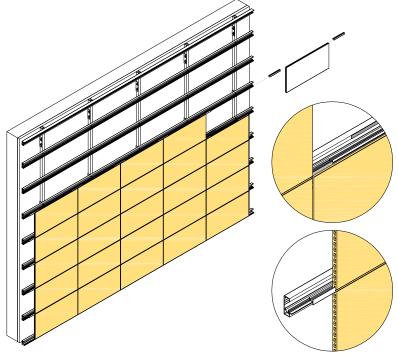
1. FIX BRACKETS TO SUPPORTING WALL



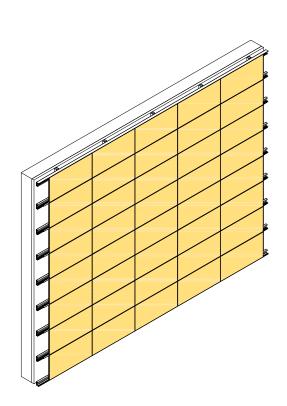
3. SCREW VERTICAL PROFILES TO BRACKETS



4. SCREW HORIZONTAL PROFILES TO **VERTICAL PROFILES** 



- 5. SLIDE CLIPS ON HORIZONTAL PROFILES
- 6. APPLY GLUE LINE ON HORIZONTAL PROFILES
- 7. SLIDE PANELS ON CLIPS



8. FINISHED SUPER PLUS SYSTEM MODULE

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KEY PLAN/ELEVATION STANDARD MODULE

DESIGN -

DRAWING BEATRIZ QUINTANA

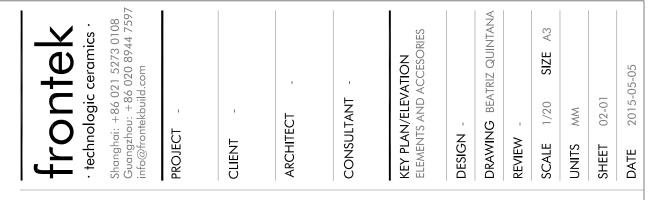
REVIEW -

SCALE 1/250 SIZE A3

UNITS MM

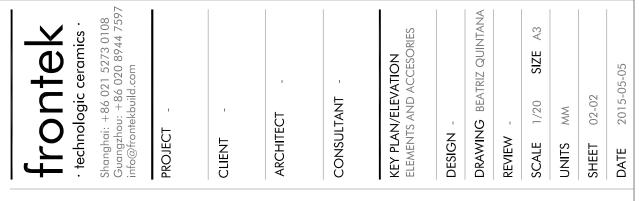
SHEET 01-02

# Super Plus System ELEMENTS AND ACCESORIES



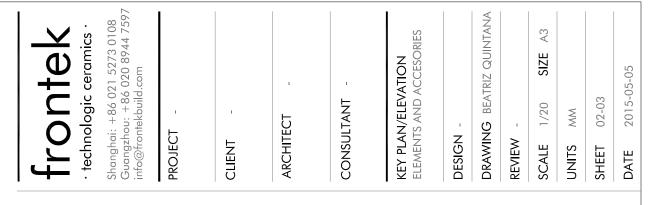
DRAWING	REF	DESCRIPTION & PROPERTIES		
	PC 001	TUBE SHAPED PROFILE FOR VERTICAL STRUCTURE		
	PC 021	VERTICAL SUPPORT TUBE FOR TUBE SHAPED PROFILES UNION		
	GG 7385	GRECOGRES STANDARD HORIZONTAL PROFILE		
	GG 7387	GRECO GRES TOP/BOTTOM HORIZONTAL PROFILE		
	EC 7386	GRECO GRES CLIP FOR HORIZONTAL PROFILE		
	ECI 108	SUPPORTING BRACKET L= 150mm, THICKNESS= 3mm. 2 SLOTTED HOLES FOR WALL FIXING + 2 SLOTTED HOLES AND 2 DRILL HOLES FOR WALL FIXING.		
	ECI 102	RETAINING BRACKET L= 60mm, THICKNESS =3mm.  1 SLOTTED HOLE FOR WALL FIXING +1 SLOTTED HOLE AND DRILL HOLE FOR PROFILE FIXING		

ELEMENTS AND ACCESORIES

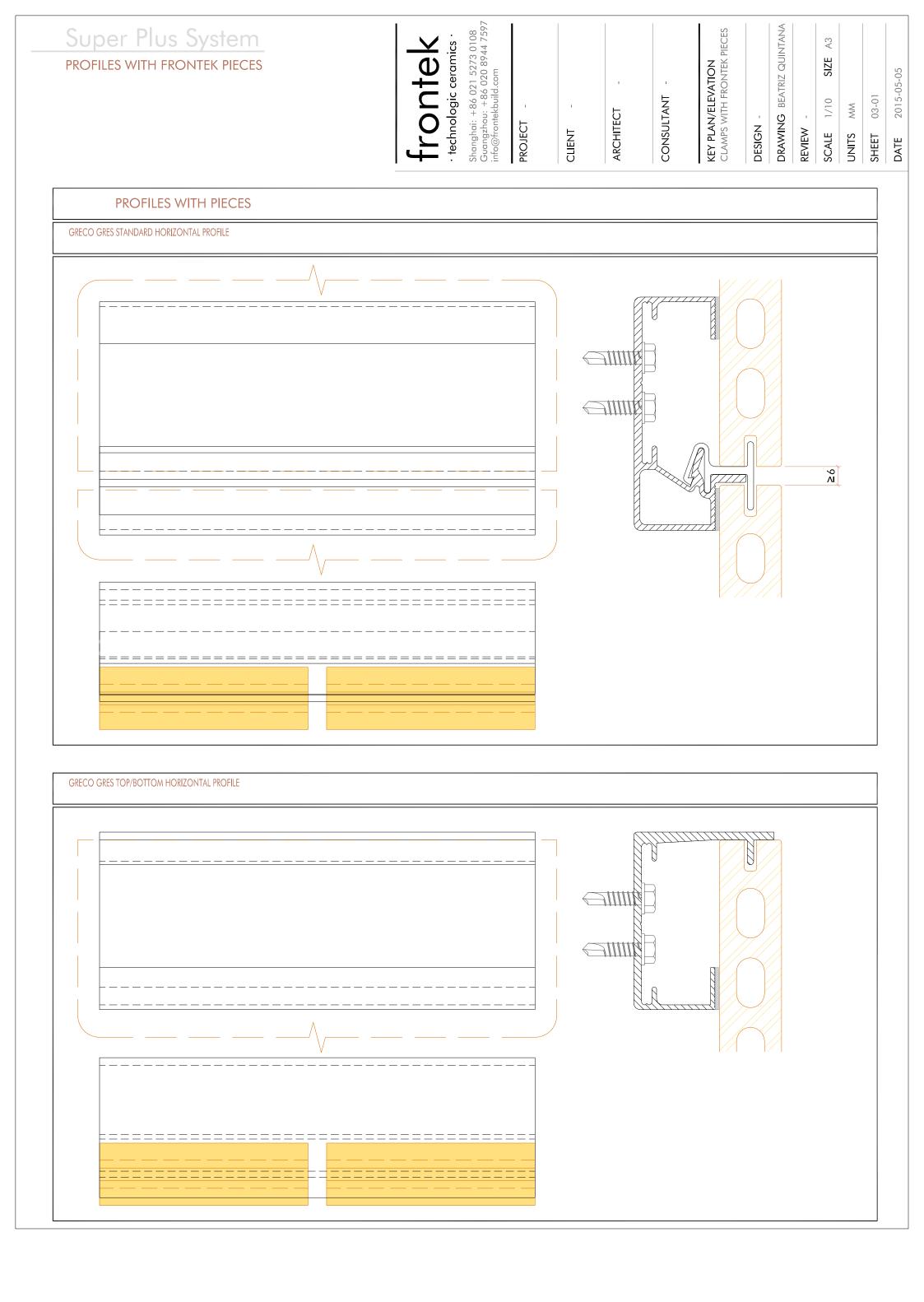


DRAWING	REF	DESCRIPTION & PROPERTIES
	ECI 010	BIT END SELF DRILLING SCREW DIN 7504 STAINLESS STEEL, HEXAGON HEAD 5,5x1 9.
	ECI 012	DIN 7504 SCREW WITH A2 FLAT HEAD 4,2x12,7
	ECI 026	ENSEMBLE STAINLESS SCREW DIN 933 M8x80 HEX. HEAD+ 2 LARGE WASHERS +1 NUT.
	GMP 018	ENSEMBLE LAG SCREW DIN 571 M8X80 HEXAGONAL HEAD WITH LARGE WASHER AND NYLON RAWPLUG ASSEMBLED
	GMP 028	ENSEMBLE LAG SCREW DIN 571 M8X120 HEXAGONAL HEAD WITH LARGE WASHER AND NYLON RAWPLUG ASSEMBLED
	GMP 021	expansion anchor 8x75 large washer
	GMP 051	EXPANSION ANCHOR 8x110 LARGE WASHER
	ECG 115	SELF DRILLING SCREW FOR IRON THICKNESS UP TO 8 MM
	ECG 025-8	THREADED STUD FOR ZIN CHEMICAL 8X100
	ECG 025-12	THREADED STUD FOR ZIN CHEMICAL 12X160

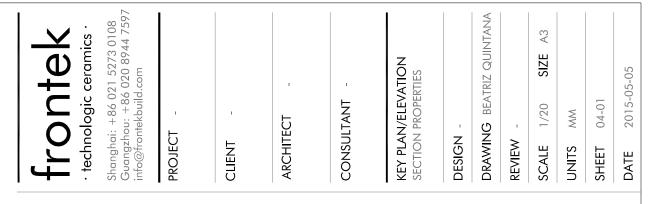
# Super Plus System ELEMENTS AND ACCESORIES



DRAWING	REF	DESCRIPTION & PROPERTIES
	PC 022	GUSSET PLATE FOR HORIZONTAL PROFILE
	PC 023	GUSSET PLATE FOR UNION BETWEEN STANDARD HORIZONTAL PROFILE AND FOOTING IN GUTTERS
	SP 030	GUSSET PLATE FOR 90º TURNS IN HORIZONTAL PROFILES

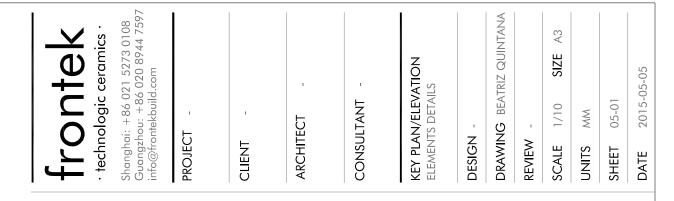


# Super Plus System SECTION PROPERTIES



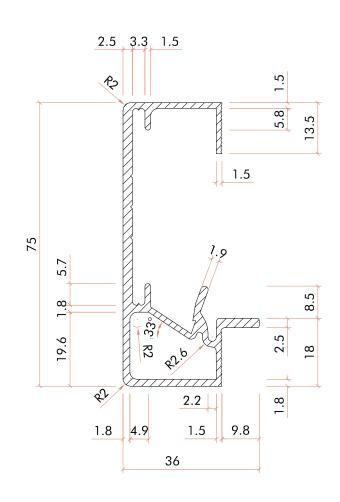
DRAWING	REF	DESCRIPTION & PROPERTIES			
04 X		DESCRIPTION Alumin	DESCRIPTION Aluminum horizontal squared profile		
		AREA (cm2)		3.040	
		DELIMITATION SQUARE (cm)	X:	-2.000, 2.000	
			Y:	-2.000, 2.000	
	DC001	CENTRE OF GRAVITY (cm)	X:	0.00	
	PC001		Y:	0.00	
		MOMENT OF INERTIA (cm4)	X:	7.337	
			Y:	7.337	
		PRODUCT OF INERTIA (cm4)	XY:	0.000	
		TURNING RADIUS (cm)	X:	1.553	
			Y:	1.553	
Y		DESCRIPTION Alumin	DESCRIPTION Aluminum horizontal T profile		
		AREA (cm2)		3.121	
· communition of the communities		DELIMITATION SQUARE (cm)	X:	-5.000, 5.000	
X			Y:	-4.795, 1.235	
2 100	DC000	CENTRE OF GRAVITY (cm)	X:	0.00	
	PC002		Y:	0.00	
		MOMENT OF INERTIA (cm4)	X:	9.889	
			Y:	16.008	
		PRODUCT OF INERTIA (cm4)	XY:	0.00	
		TURNING RADIUS (cm)	X:	1.780	
			Y:	2.265	
		DESCRIPTION Aluminum horizontal Omega profile			
100		AREA (cm2)		3.221	
		DELIMITATION SQUARE (cm)	X:	-5.000, 5.000	
			Y:	-1.596, 0.904	
	DO7 450	CENTRE OF GRAVITY (cm)	X:	0.00	
	PC7453		Y:	0.00	
i juquuqui		MOMENT OF INERTIA (cm4)	X:	2.662	
33			Y:	19.055	
		PRODUCT OF INERTIA (cm4)	XY:	0.00	
		TURNING RADIUS (cm)	X:	0.909	
			Y:	2.432	

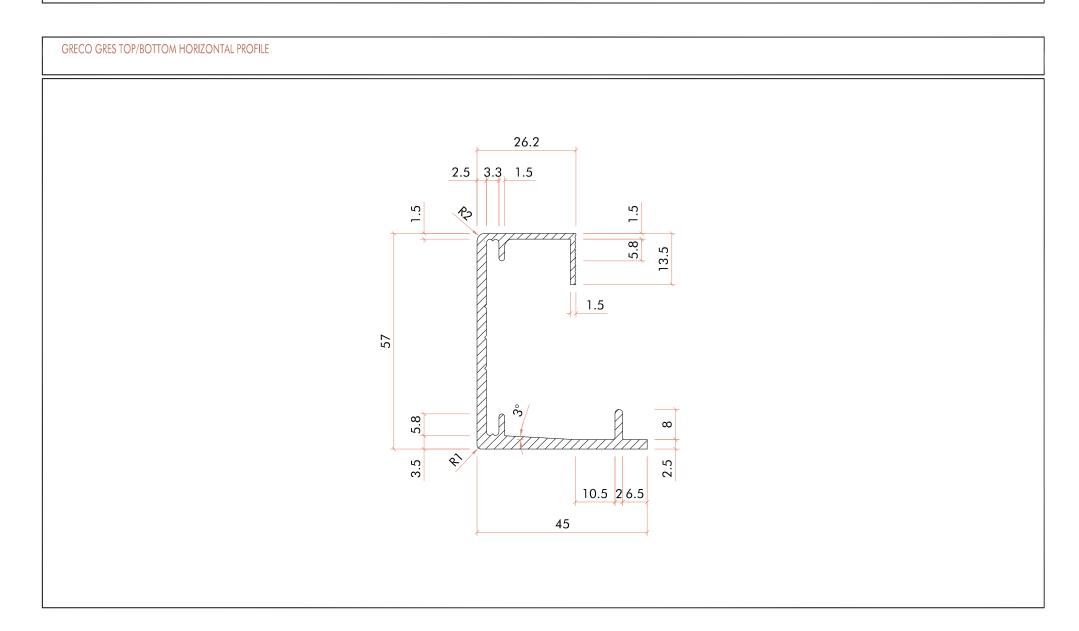
ELEMENTS DETAILS



#### ALUMINUM PROFILES DETAIL

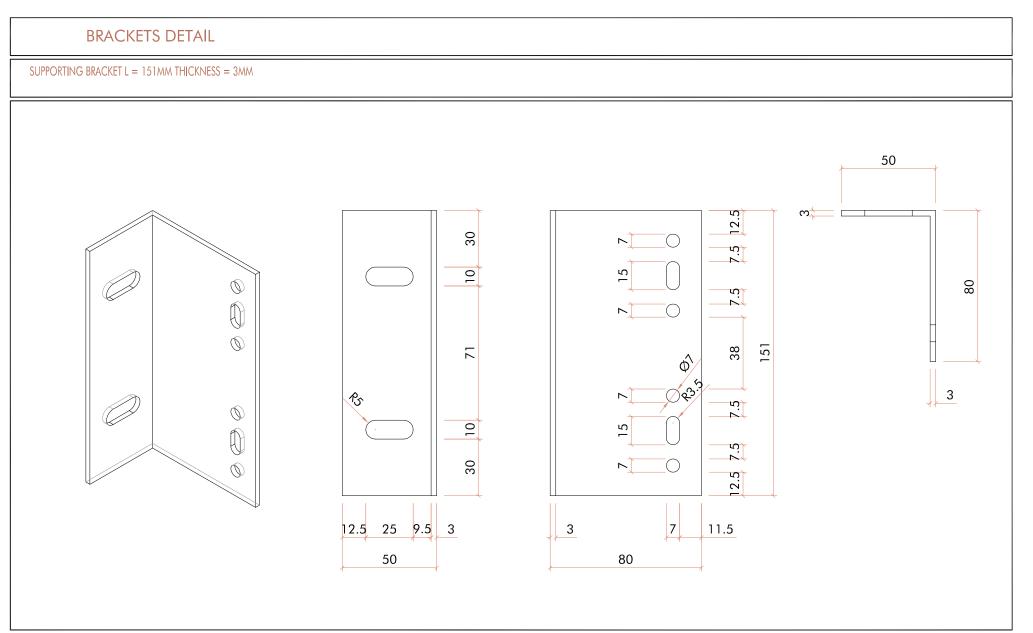
GRECO GRES STANDARD HORIZONTAL PROFILE

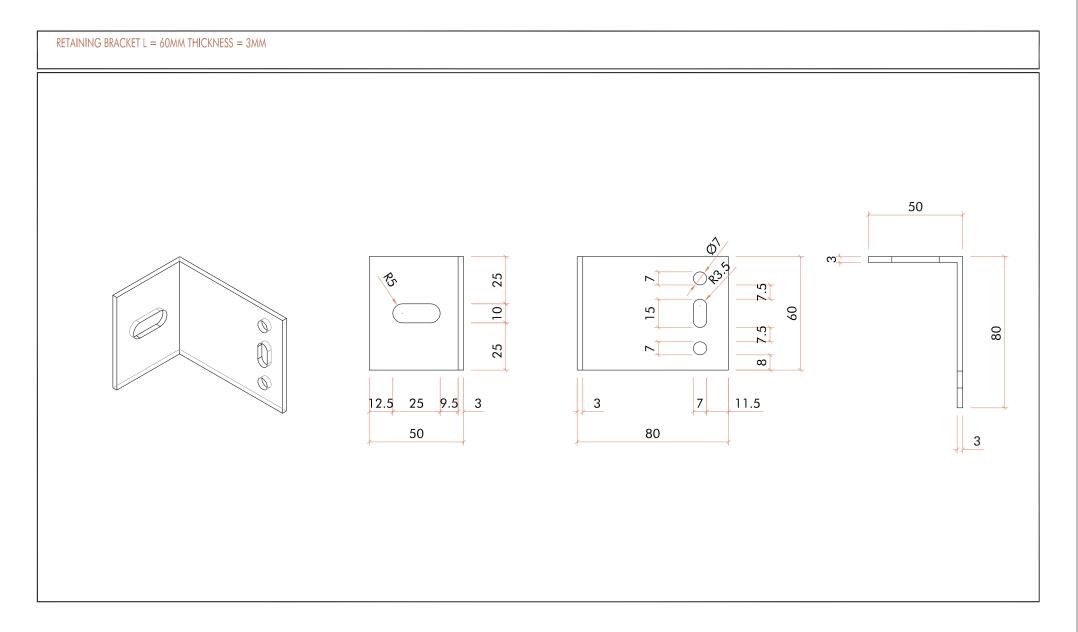




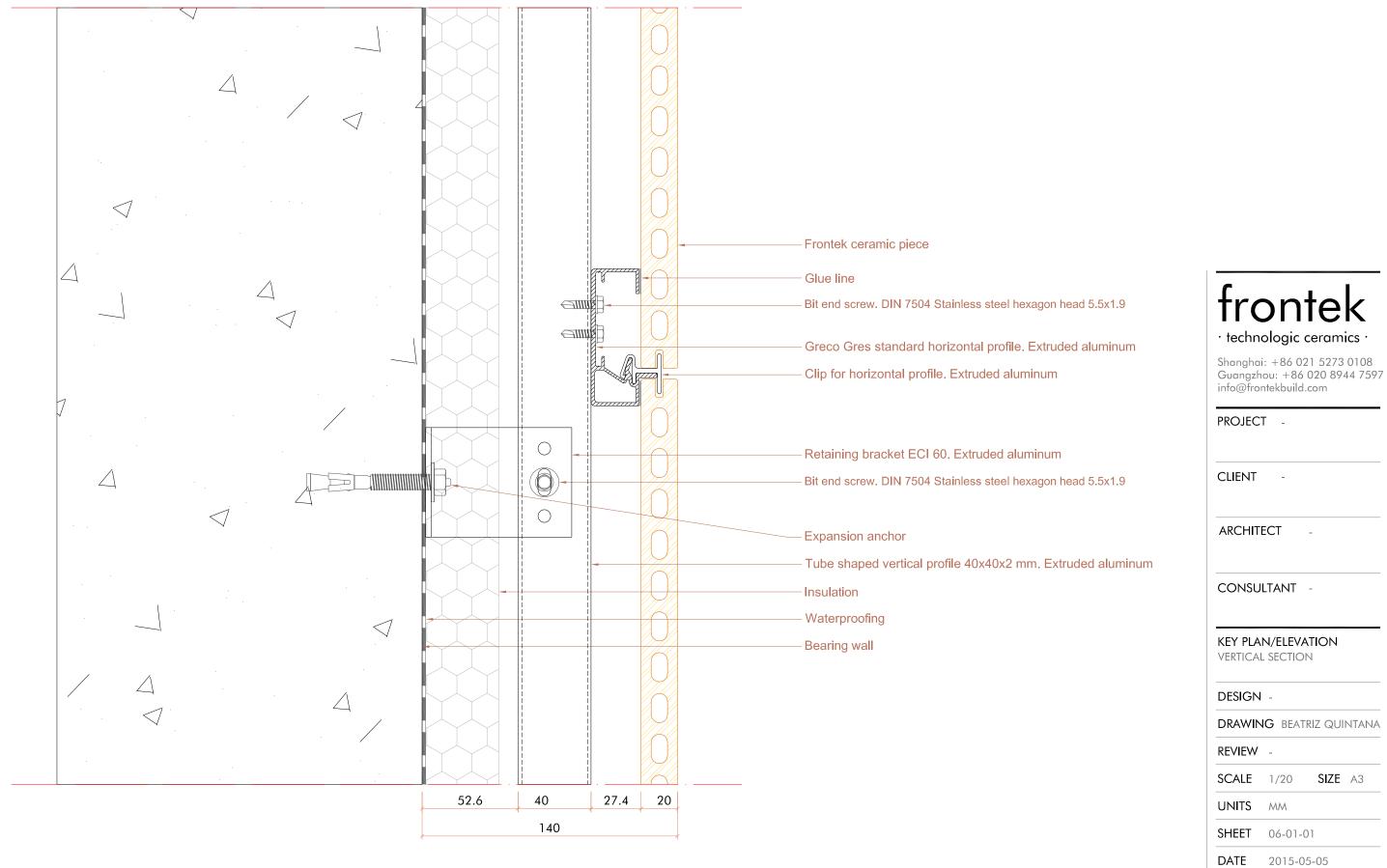
ELEMENTS DETAILS

Shanghai: +86 021 5273 0108 Guangzhou: +86 020 8944 7597 info@frontekbuild.com DRAWING BEATRIZ QUINTANA frontek A3 KEY PLAN/ELEVATION ELEMENTS DETAILS 2015-05-05 05-02 CONSULTANT 1/10  $\stackrel{\times}{\sim}$ ARCHITECT DESIGN -PROJECT REVIEW CLIENT SCALE UNITS SHEET DATE





VERTICAL SECTION.

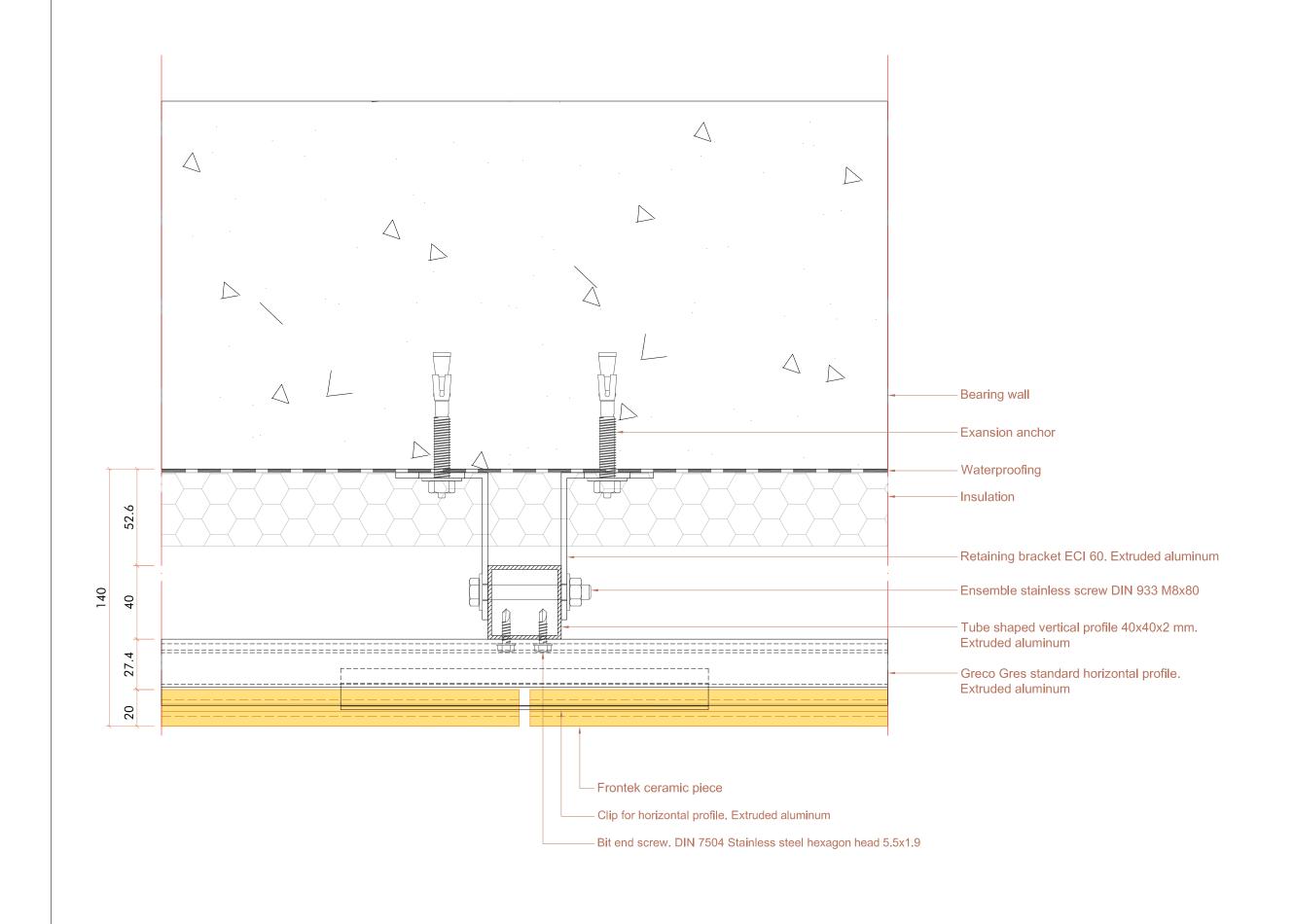


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DRAWING BEATRIZ QUINTANA

SIZE A3

HORIZONTAL SECTION.



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KEY PLAN/ELEVATION

HORIZONTAL SECTION

DESIGN -

DRAWING BEATRIZ QUINTANA

REVIEW -

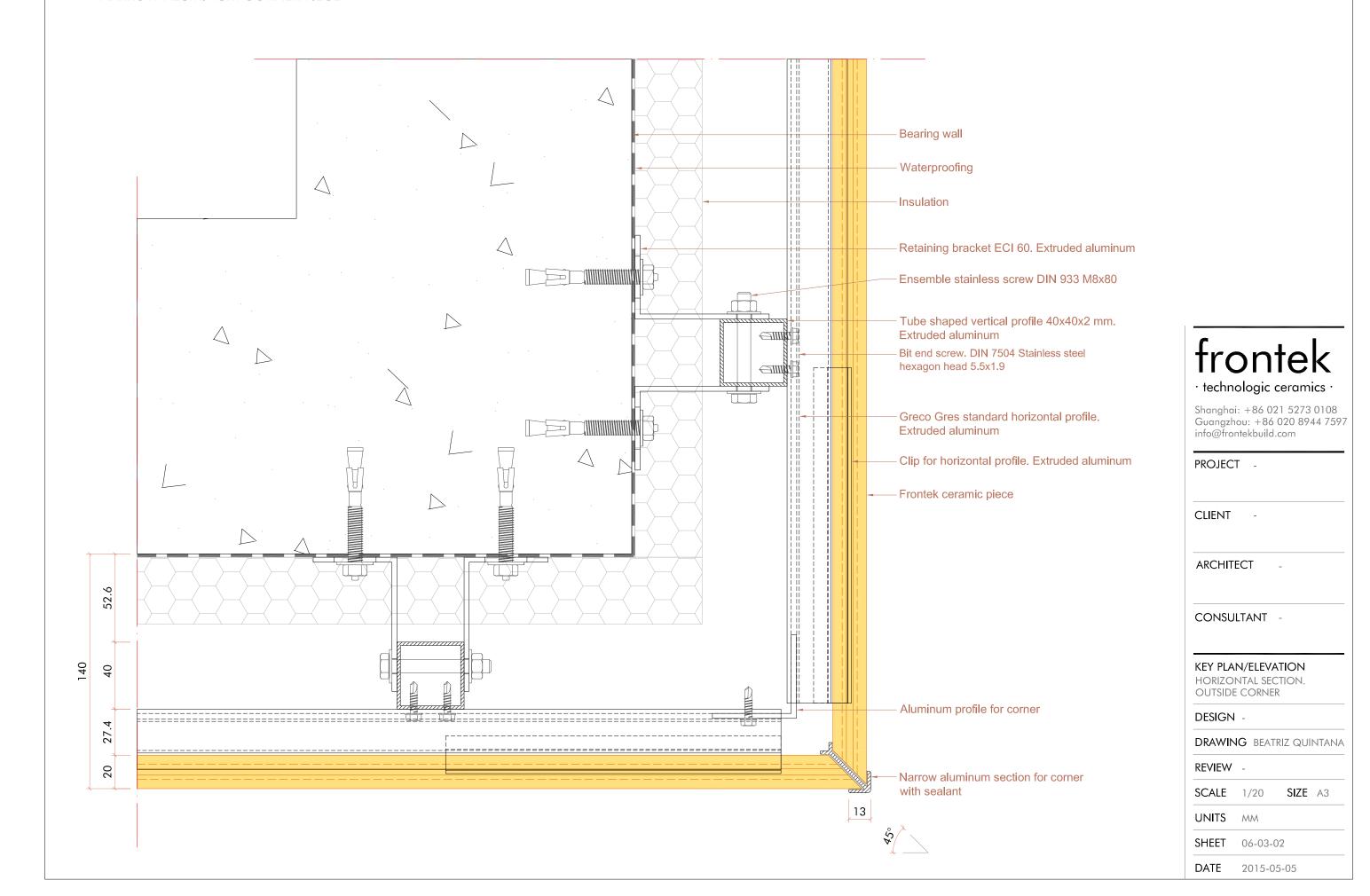
SIZE A3 SCALE 1/20

UNITS MM

SHEET 06-02-01

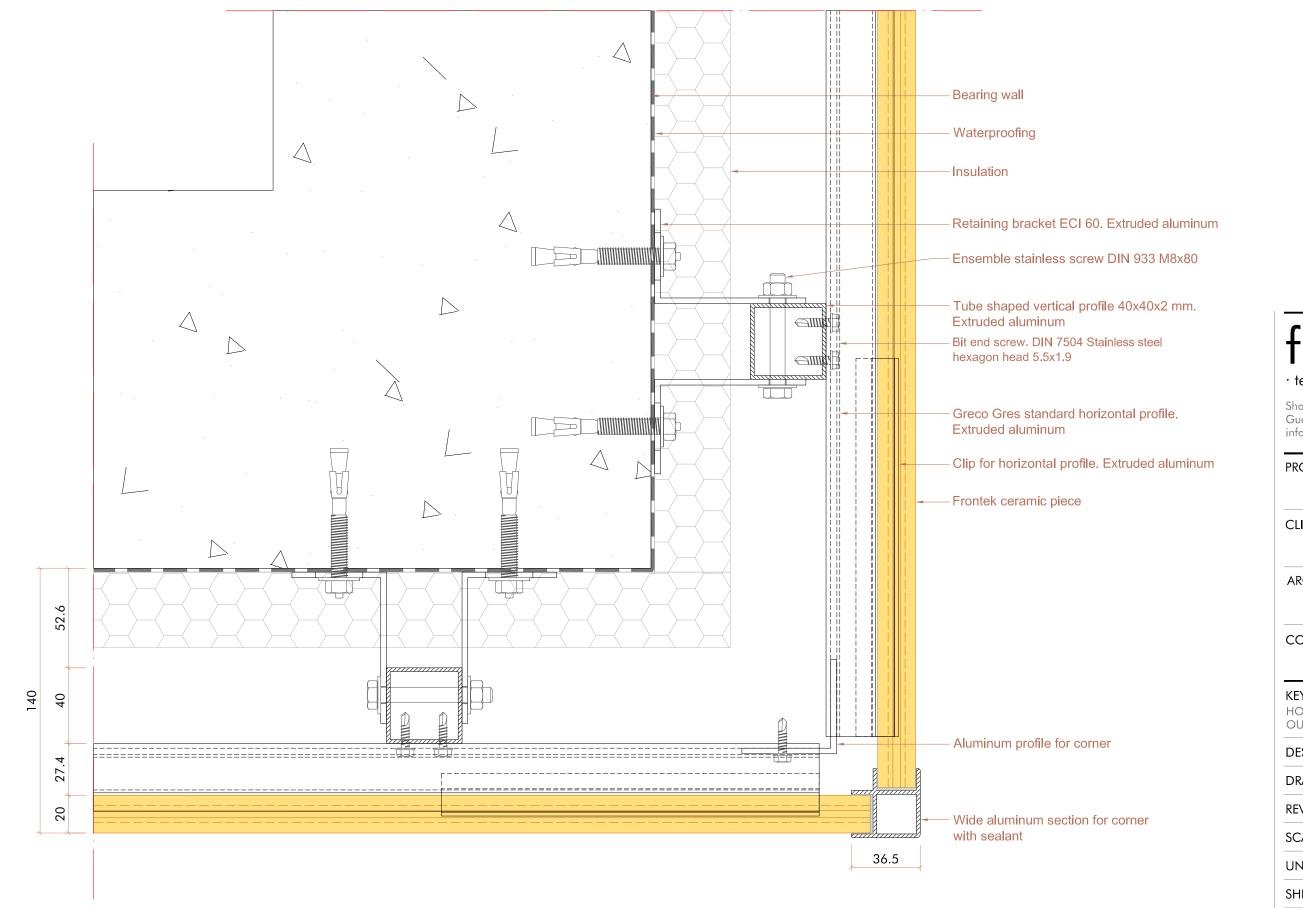
#### Super Plus System HORIZONTAL SECTION. OUTSIDE CORNER. FRONTEK MITER CUT - Bearing wall Waterproofing -Insulation Retaining bracket ECI 60. Extruded aluminum Ensemble stainless screw DIN 933 M8x80 Tube shaped vertical profile 40x40x2 mm. Extruded aluminum frontek Bit end screw. DIN 7504 Stainless steel hexagon head 5.5x1.9 · technologic ceramics · Shanghai: +86 021 5273 0108 Guangzhou: +86 020 8944 7597 info@frontekbuild.com Greco Gres standard horizontal profile. Extruded aluminum Clip for horizontal profile. Extruded aluminum PROJECT -Frontek ceramic piece CLIENT ARCHITECT 52.6 CONSULTANT -140 KEY PLAN/ELEVATION 40 HORIZONTAL SECTION. OUTSIDE CORNER Aluminum profile for corner DESIGN -27.4 DRAWING BEATRIZ QUINTANA REVIEW -20 SCALE 1/20 SIZE A3 UNITS MM SHEET 06-03-01 DATE 2015-05-05

# Super Plus System HORIZONTAL SECTION. OUTSIDE CORNER. NARROW ALUMINUM CORNER PIECE



HORIZONTAL SECTION. OUTSIDE CORNER.

WIDE ALUMINUM CORNER PIECE



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#### KEY PLAN/ELEVATION

HORIZONTAL SECTION.
OUTSIDE CORNER

DESIGN -

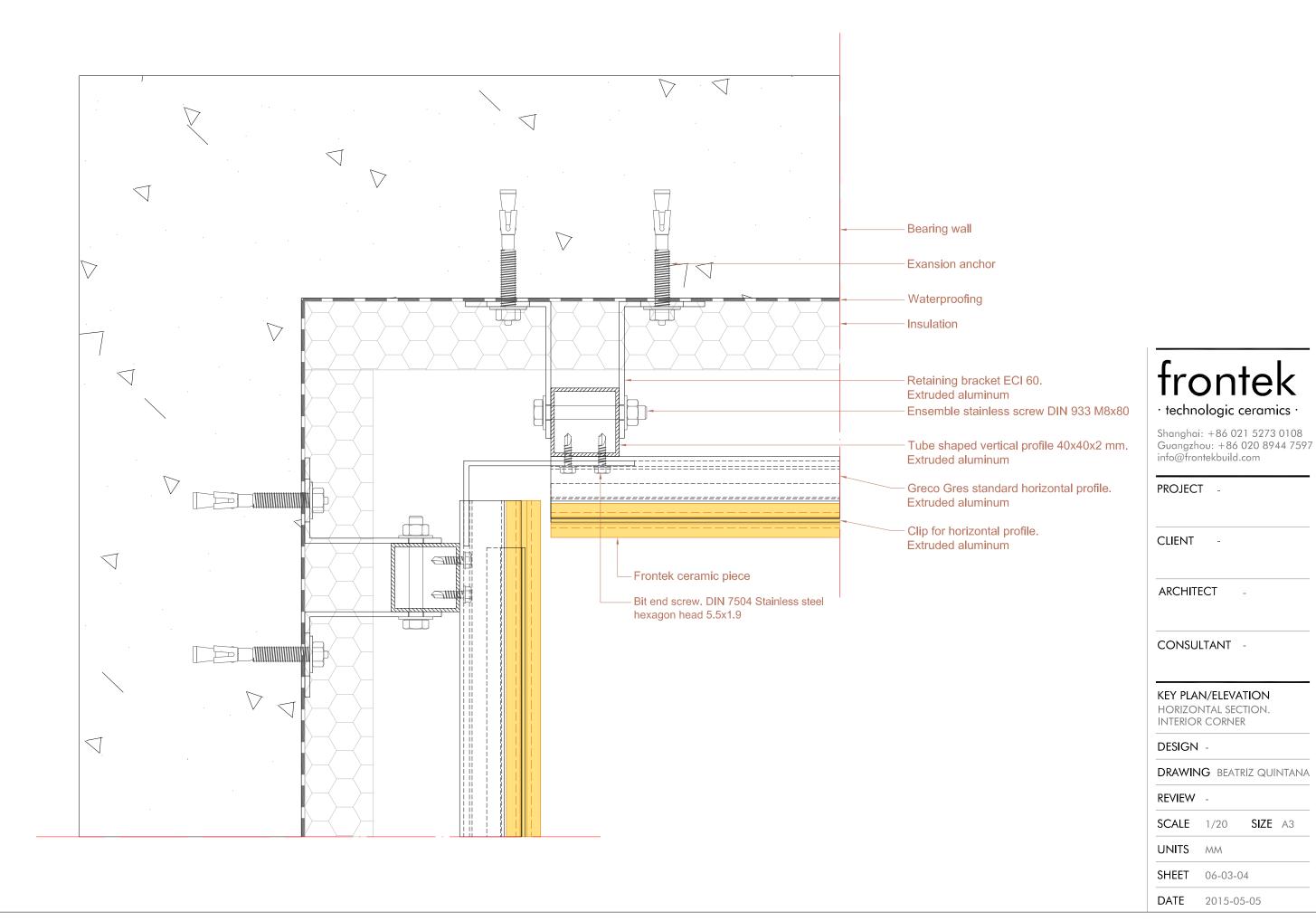
**DRAWING** BEATRIZ QUINTANA

REVIEW -

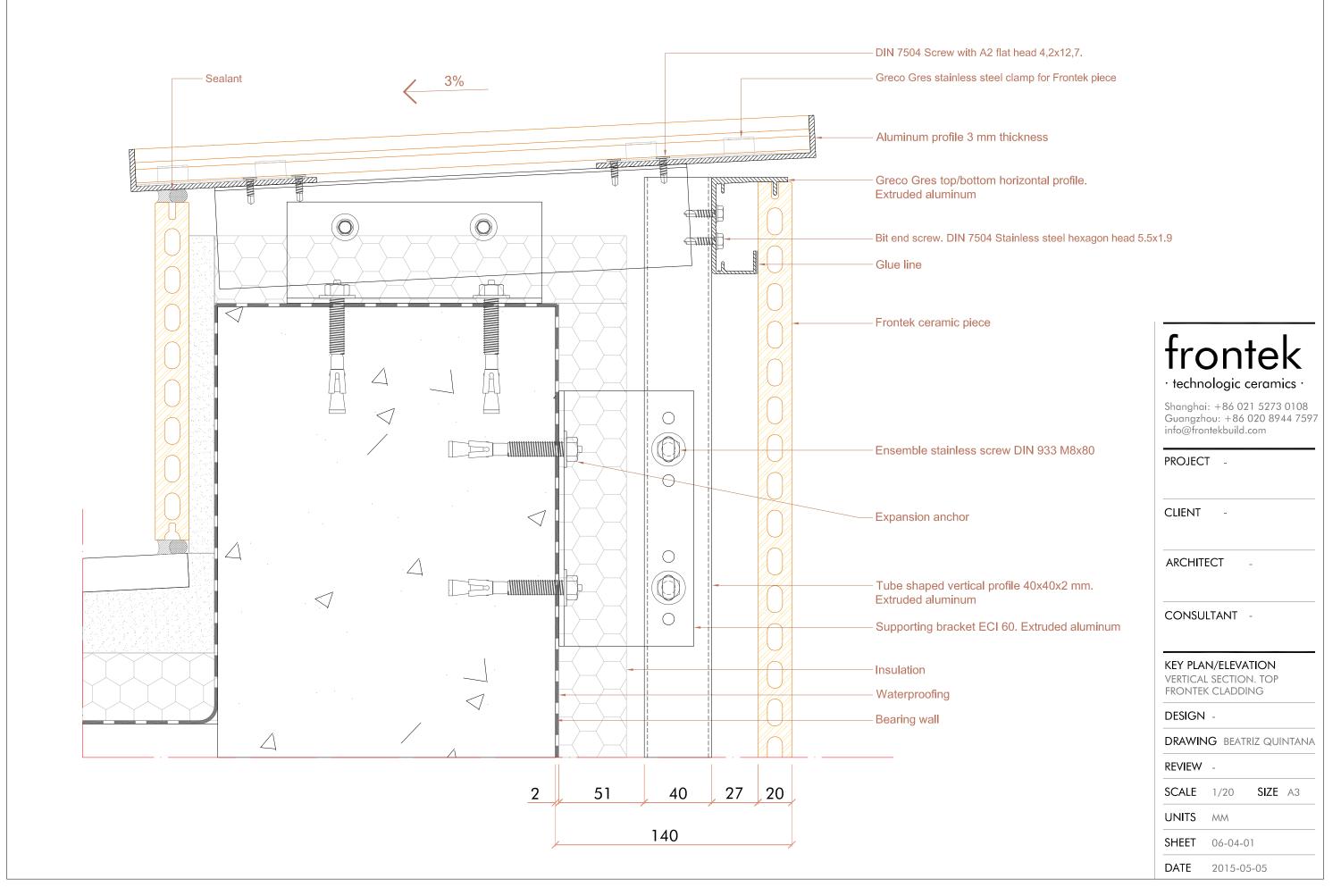
SCALE 1/20 SIZE A3

UNITS MM

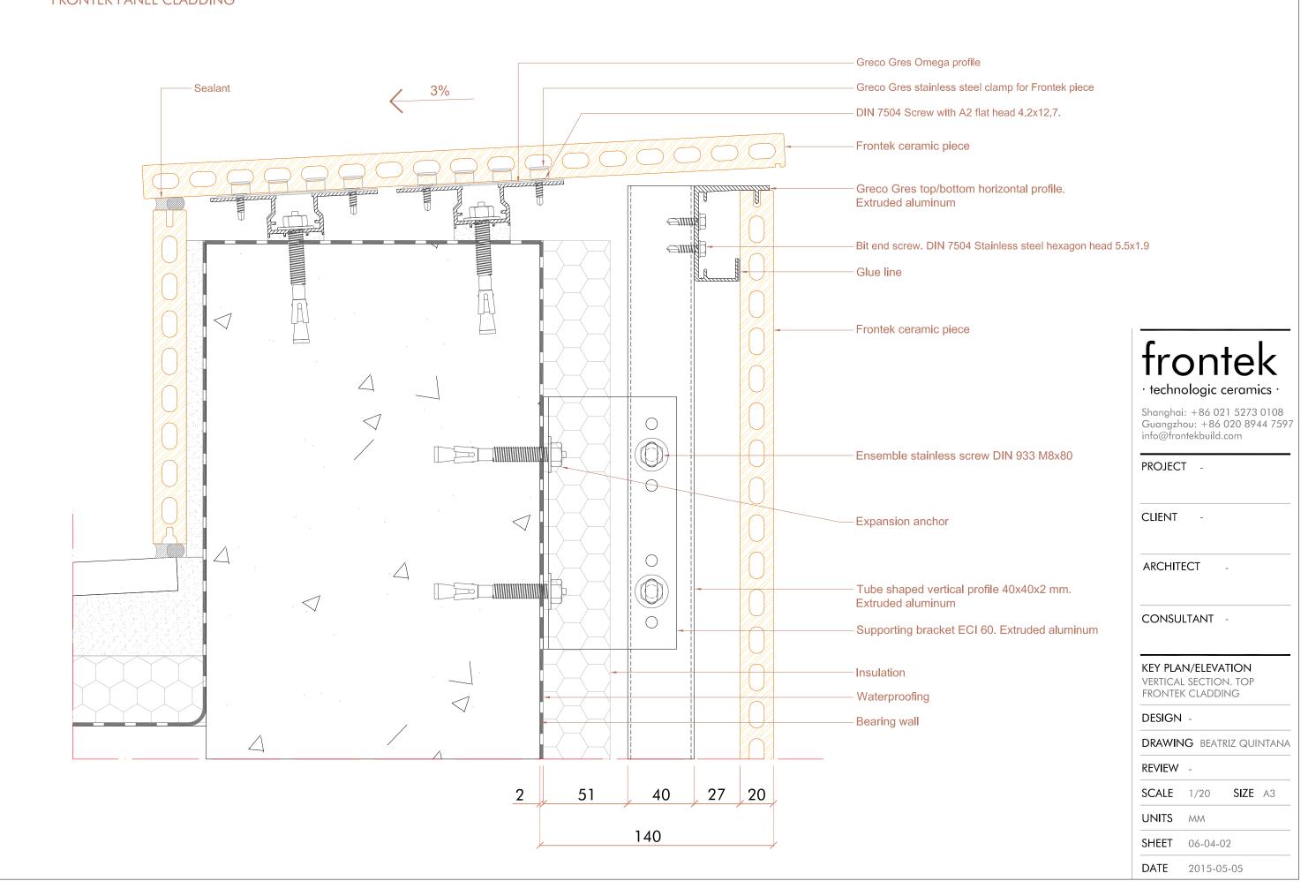
SHEET 06-03-03



VERTICAL SECTION. TOP CLADDING.
FRONTEK PANEL CLADDING

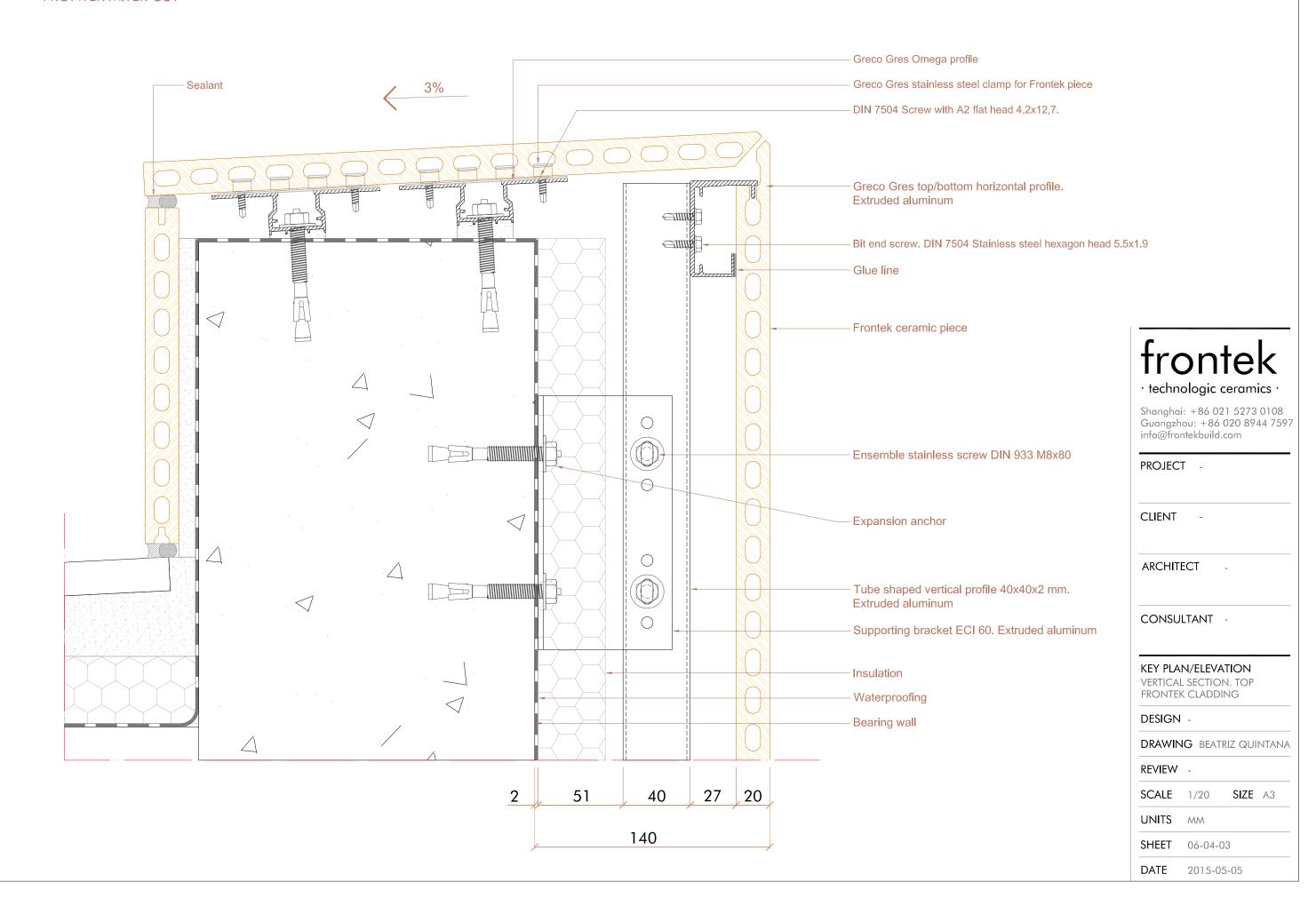


VERTICAL SECTION. TOP CLADDING.
FRONTEK PANEL CLADDING

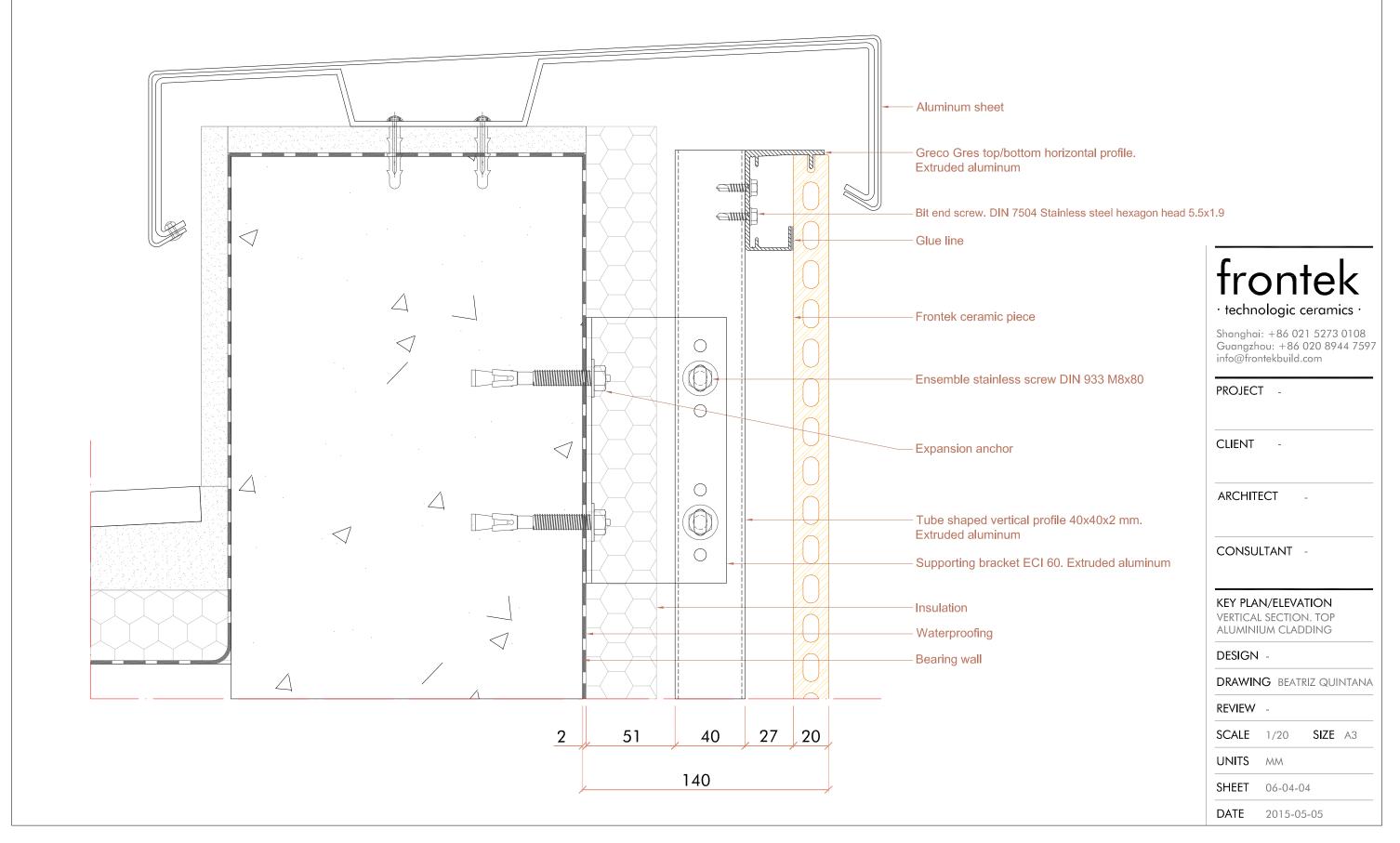


VERTICAL SECTION. TOP CLADDING.

FRONTEK MITER CUT

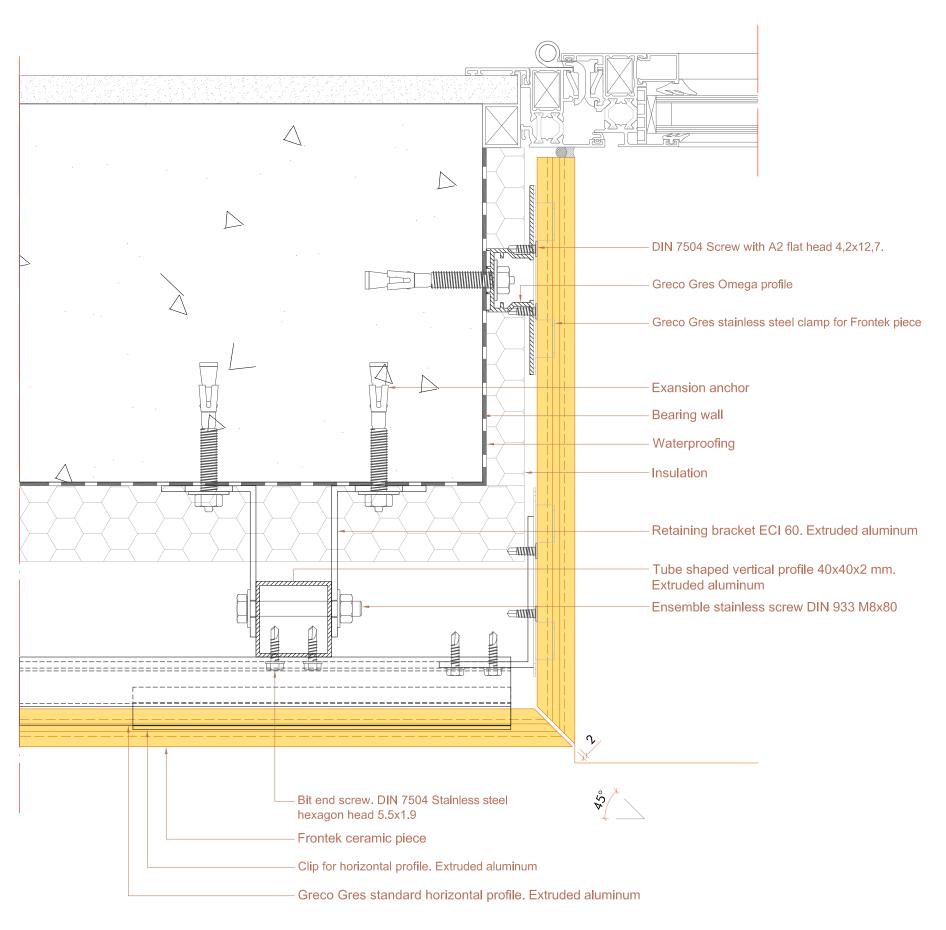


VERTICAL SECTION. TOP CLADDING.
ALUMINUM CLADDING

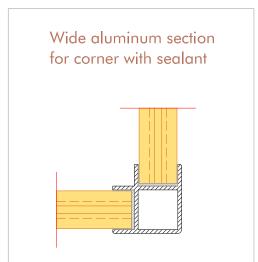


## Super Plus System VERTICAL SECTION. BOTTOM. Frontek ceramic piece Insulation Waterproofing Bearing wall $\bigcirc$ Ensemble stainless screw DIN 933 M8x80 Expansion anchor - Supporting bracket ECI 60. Extruded aluminum Greco Gres top/bottom horizontal profile. frontek Extruded aluminum $\bigcirc$ Glue line · technologic ceramics · - Bit end screw. DIN 7504 Stainless steel hexagon head 5.5x1.9 Shanghai: +86 021 5273 0108 Guangzhou: +86 020 8944 7597 info@frontekbuild.com PROJECT -Perforated sheet CLIENT ARCHITECT CONSULTANT -KEY PLAN/ELEVATION VERTICAL SECTION. BOTTOM FRONTEK FINISHING DESIGN -DRAWING BEATRIZ QUINTANA REVIEW -SIZE A3 SCALE 1/20 UNITS MM SHEET 06-05-01 DATE 2015-05-05

HORIZONTAL SECTION. WINDOW FRONTEK 45° CUT







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#### KEY PLAN/ELEVATION

HORIZ. SECTION. WINDOW FRONTEK FINISHING

DESIGN -

DRAWING BEATRIZ QUINTANA

REVIEW -

SCALE 1/20 SIZE A3

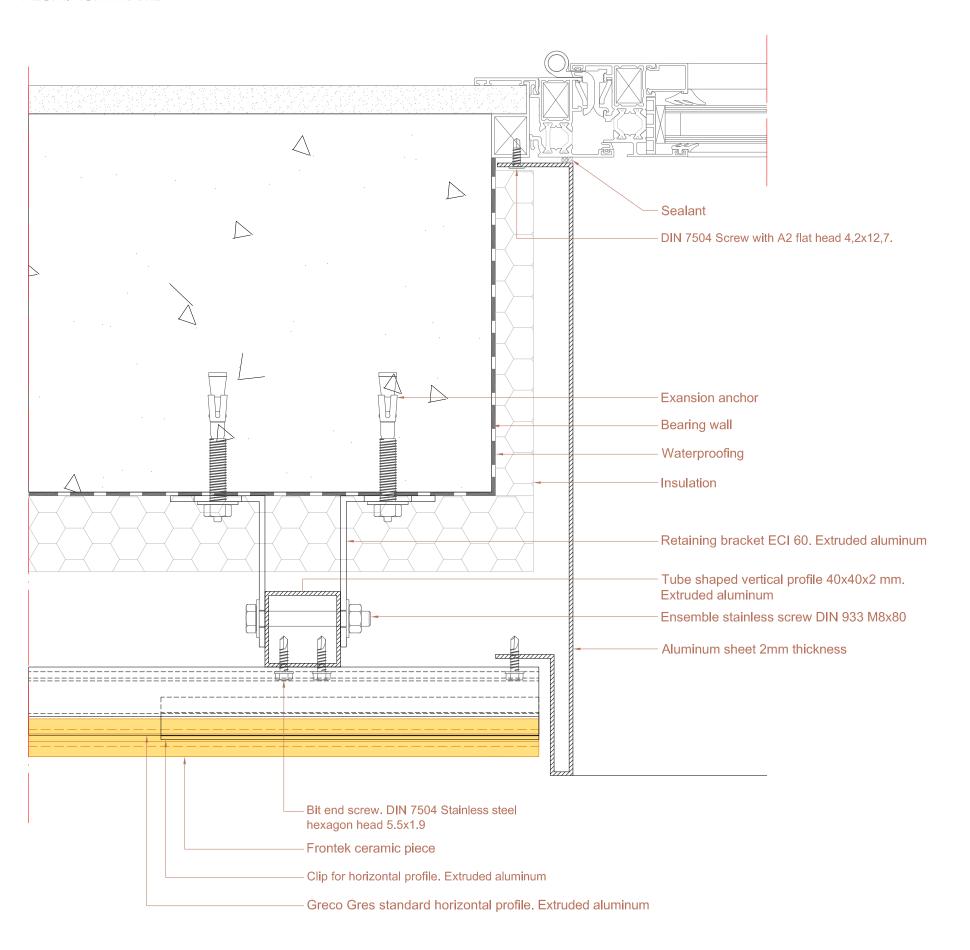
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**SHEET** 06-06-01

HORIZONTAL SECTION. WINDOW

ALUMINUM FRAME



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PROJECT -

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#### KEY PLAN/ELEVATION

HORIZ. SECTION. WINDOW ALUMINIUM FRAME

DESIGN -

DRAWING BEATRIZ QUINTANA

REVIEW -

SCALE 1/20 SIZE A3

UNITS MM

SHEET 06-06-02

