

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.

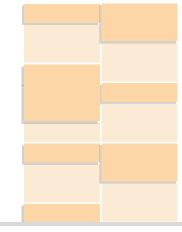
ADVANTAGES OF FRONTEK

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







TWO LAYERS SYSTEM

EXPERIENCE A WORLD OF VOLUME AND TEXTURE

TWO LAYERS' SYSTEM WITH FRONTEK PIECES:

This systems aims to show the versatility of Frontek ceramic panels in an innovative solution.

With inner and outer pieces in two different layers, this solution adds a volumetric and sculptural effect to the façade.

Combining the wide range of Frontek panel colours and textures as well as the use of different sizes in modules, a world of possibilities emerges to add aesthetic and architectural value to your design.

SYSTEM DESCRIPTION:

Frontek pieces are supported by specially designed horizontal aluminum profiles, which can solve the difference between the two layers with only one bar.

The use of this horizontal guides allows mounting and replacing the panels easily, as the pieces in different layers can move independently.

This profiles are fixed by screws to the supporting structure, consisting of vertical aluminum square profiles. This profiles are fixed to the bearing wall by supporting steel brackets previously screwed. Retaining brackets help to prevent horizontal movement of the vertical profiles against wind forces.

We are aware of the finishes' importance for the whole system performance. Aluminum profiles for covering panels' sides fit into the horizontal profile shape with tabs for this purpose.

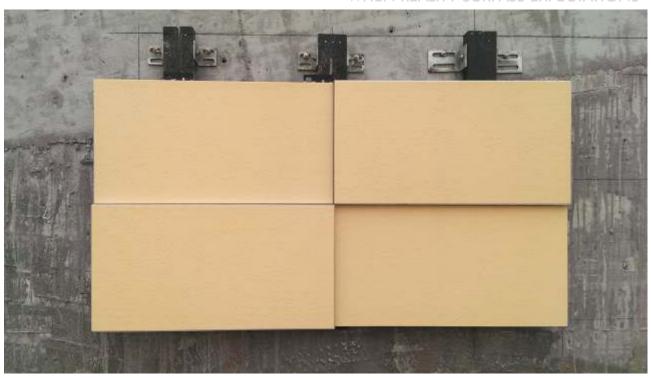
Finally, a series of accesories are provided for common solutions in top and bottom cladding, corners and windows.







WHEN REALITY SURPASS EXPECTATIONS







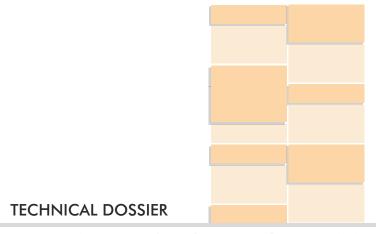
frontek











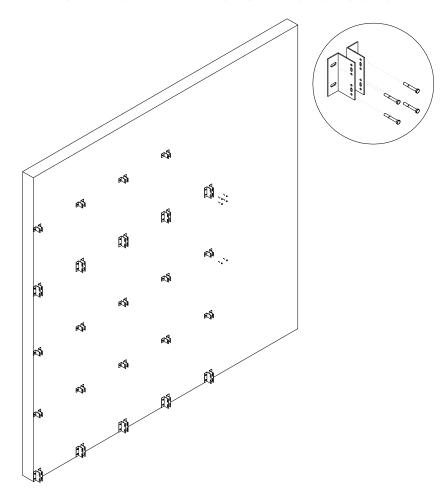
WE HELP YOU TO BUILD YOUR DREAM

INDEX OF DRAWINGS IN A3 FORMAT:

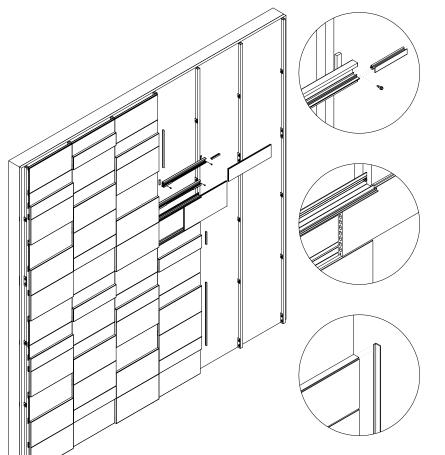
- 1- FRONTEK STANDARD MODULE
- 2- ELEMENTS AND ACCESORIES
- 3- HORIZONTAL PROFILES WITH FRONTEK PIECES
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 - 6.6- WINDOW. HORIZONTAL SECTION
 - 6.7- WINDOW. VERTICAL SECTION

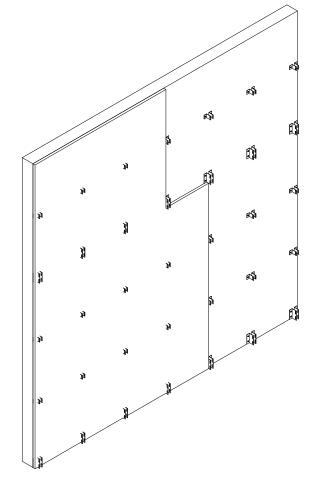
Inside-Outside System FRONTEK STANDARD MODULE B-B' C-C' frontek · technologic ceramics · Shanghai: +86 021 5273 0108 Guangzhou: +86 020 8944 7597 info@frontekbuild.com PROJECT -CLIENT ARCHITECT CONSULTANT -KEY PLAN/ELEVATION STANDARD MODULE 150 $\mathsf{B}^{\mathsf{\square}}$ 800 DESIGN -DRAWING BEATRIZ QUINTANA $A-A^{I}$ REVIEW -SCALE 1/250 SIZE A3 UNITS MM 795 SHEET 01-01 DATE 2015-05-05

FRONTEK STANDARD MODULE. CONSTRUCTION DIAGRAM



1. FIX BRACKETS TO SUPPORTING WALL



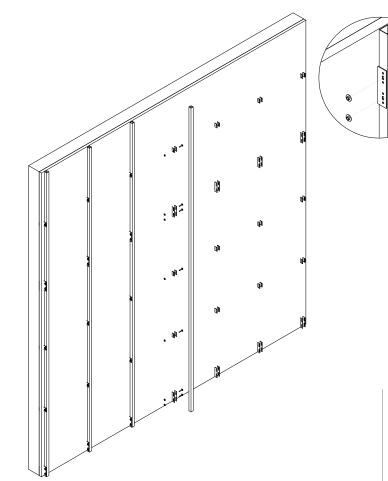


2. APPLY INSULATION

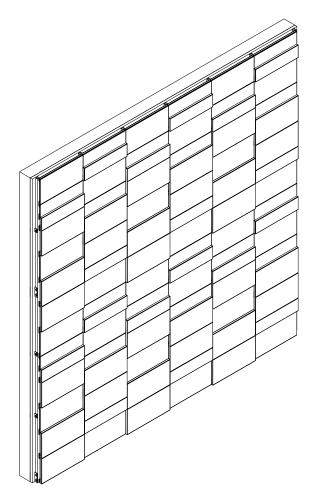
- 4. SCREW HORIZONTAL PROFILES TO VERTICAL ONES
- 5. INSERT CLIPS WHEN NEEDED

6. SLIDE FRONTEK PANELS ALONG HORIZONTAL BARS

7. FIT THE SIDE FINISHING PROFILES WHEN NEEDED



3. SCREW VERTICAL PROFILES TO BRACKETS



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PROJECT -

CLIENT -

ARCHITECT

CONSULTANT -

KEY PLAN/ELEVATION STANDARD MODULE

DESIGN -

DRAWING BEATRIZ QUINTANA

REVIEW -

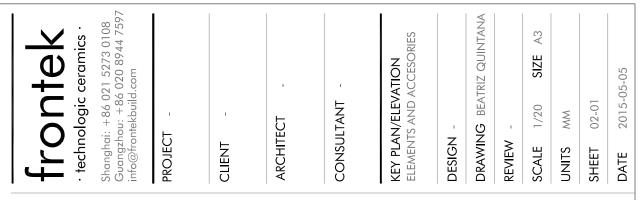
SCALE 1/250 SIZE A3

UNITS MM

SHEET 01-02

DATE 2015-05-05

ELEMENTS AND ACCESORIES



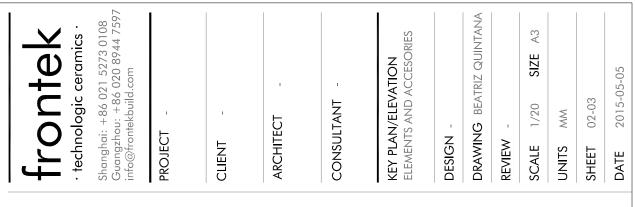
DRAWING	REF	DESCRIPTION & PROPERTIES
	PC 0011	TUBE SHAPED PROFILE FOR VERTICAL STRUCTURE
	PC 021	VERTICAL SUPPORT TUBE FOR TUBE SHAPED PROFILES UNION
	GG 7385	GRECOGRES STANDARD HORIZONTAL PROFILE
	HP 001	ALUMINUM HORIZONTAL PROFILE FOR DETACHMENT CHANGING PIECES
	HP 002	ALUMINUM HORIZONTAL PROFILE FOR INNER PIECES
	EC 7386	GRECO GRES CLIP FOR HORIZONTAL PROFILE

ELEMENTS AND ACCESORIES



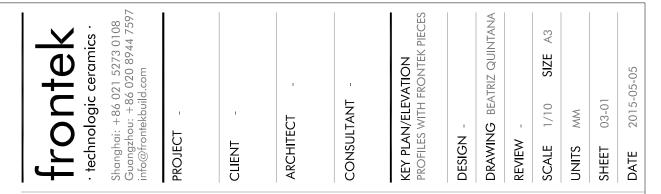
DRAWING	REF	DESCRIPTION & PROPERTIES
	ECI 010	BIT END SELF DRILLING SCREW DIN 7504 STAINLESS STEEL, HEXAGON HEAD 5,5x1 9.
	ECI 012	DIN 7504 SCREW WITH A2 FLAT HEAD 4,2x12,7
	ECI 026	ENSEMBLE STAINLESS SCREW DIN 933 M8x80 HEX. HEAD+ 2 LARGE WASHERS +1 NUT.
	GMP 018	ENSEMBLE LAG SCREW DIN 571 M8X80 HEXAGONAL 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

ELEMENTS AND ACCESORIES

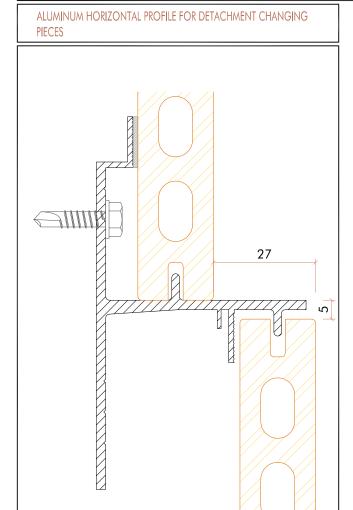


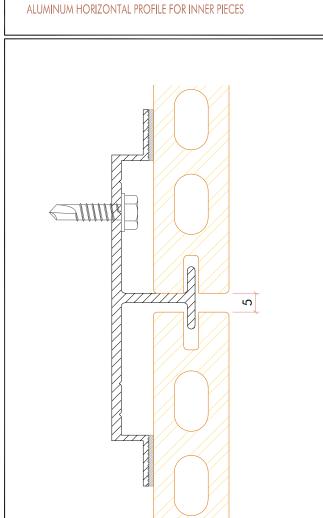
DRAWING	REF	DESCRIPTION & PROPERTIES
	ECI 108	SUPPORTING BRACKET L= 150mm, THICKNESS= 3mm. 2 SLOTTED HOLES FOR WALL FIXING + 2 SLOTTED HOLES AND 2 DRILL HOLES FOR WALL FIXING.
	ECI 102	RETAINING BRACKET L= 60mm, THICKNESS =3mm. 1 SLOTTED HOLE FOR WALL FIXING +1 SLOTTED HOLE AND DRILL HOLE FOR PROFILE FIXING
	AC 001	ALUMINUM CORNER SECTION 2 MM THICKNESS, 13 MM WIDTH
van annan	AC 002	ALUMINUM CORNER SECTION 2 MM THICKNESS, 36,5 MM WIDTH
	ST 001	STAINLESS STEEL PLATE 75 X 40 X 10 MM THICKNESS
	AL 001	ALUMINUM PROFILE 2 MM THICKNESS FOR SIDE COVERING
	PL 001	EPDM PLASTIC GASKET 5 MM THICKNESS FOR JOINTS

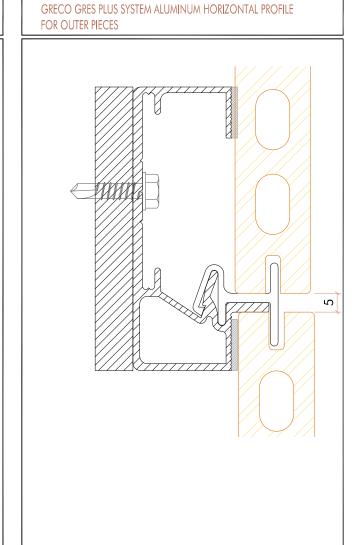
HORIZONTAL PROFILES WITH FRONTEK PIECES



ALUMINUM PROFILES

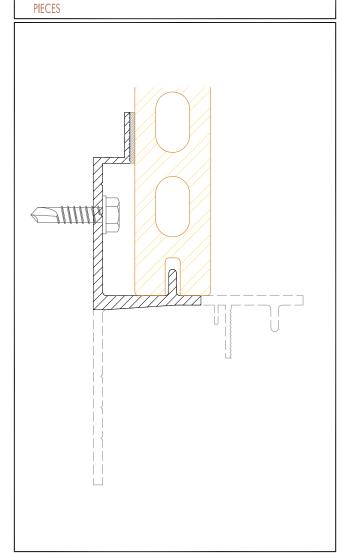


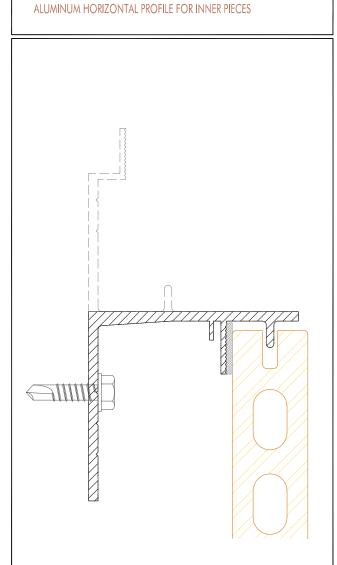




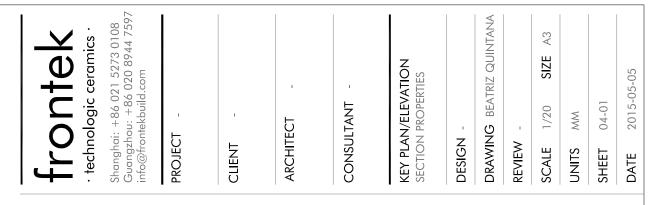
CUTTED SECTIONS FOR TOP/END

ALUMINUM HORIZONTAL PROFILE FOR DETACHMENT CHANGING





SECTION PROPERTIES



DRAWING	REF	DESCRIPTION & PROPERTIES		
Y	HP 001	DESCRIPTION Aluminum horizontal profile for detachment change		
66 — унишиници х		AREA (cm2)		4.393
		DELIMITATION SQUARE (cm)	X:	-1.419, 4.131
			Y:	-4.819, 5.041
		CENTRE OF GRAVITY (cm)	X:	0.00
% — <i>унициниц</i> и X			Y:	0.00
I PA ' NIR PI		MOMENT OF INERTIA (cm4)	X:	18.921
			Y:	12.507
		PRODUCT OF INERTIA (cm4)	XY:	0.310
		TURNING RADIUS (cm)	X:	2.075
56			Y:	1.687
Y		DESCRIPTION Aluminum horizontal profile for detachment change		
Received the second sec		AREA (cm2)		3.187
	HP 002	DELIMITATION SQUARE (cm)	X:	-0.575, 1.625
a			Y:	-4.980, 4.980
		CENTRE OF GRAVITY (cm)	X:	0.00
001 — X			Y:	0.00
		MOMENT OF INERTIA (cm4)	X:	18.215
			Y:	1.436
		PRODUCT OF INERTIA (cm4)	XY:	0.00
		TURNING RADIUS (cm)	X:	2.391
			Y:	0.671
Y		DESCRIPTION Aluminum horizontal profile for detachment change		
gymm		AREA (cm2)		4.006
		DELIMITATION SQUARE (cm)	X:	-1.067, 2.533
			Y:	-3.320, 4.180
	00.7005	CENTRE OF GRAVITY (cm)	X:	0.00
36 X	GG 7385		Y:	0.00
		MOMENT OF INERTIA (cm4)	X:	25.746
			Y:	4.401
		PRODUCT OF INERTIA (cm4)	XY:	-2.449
		TURNING RADIUS (cm)	X:	2.535
			Y:	1.048

CUTTED PIECES				
Y		DESCRIPTION Aluminum horizontal profile for detachment change		
		AREA (cm2)		2.184
		DELIMITATION SQUARE (cm)	X:	-0.780, 2.050
25			Y:	-1.580, 3.643
X	LID 001 A	CENTRE OF GRAVITY (cm)	X:	0.00
	HP 001A		Y:	0.00
		MOMENT OF INERTIA (cm4)	X:	5.214
28			Y:	1.468
		PRODUCT OF INERTIA (cm4)	XY:	-1.117
		TURNING RADIUS (cm)	X:	1.545
U			Y:	0.820
		DESCRIPTION Aluminum horizontal profile for detachment change		
		AREA (cm2)		3.072
		DELIMITATION SQUARE (cm)	X:	-1.228, 4.322
Y			Y:	-3.834, 1.171
	LID 001D	CENTRE OF GRAVITY (cm)	X:	0.00
HP C	HP 001B		Y:	0.00
		MOMENT OF INERTIA (cm4)	X:	6.472
			Y:	11.384
		PRODUCT OF INERTIA (cm4)	XY:	4.566
		TURNING RADIUS (cm)	X:	1.452
			Y:	1.925

SECTION PROPERTIES



DRAWING	REF	DESCRIPTION & P	ROPERTIES			
		DESCRIPTION Alumin	um horizontal profile for detachment change	Э		
		AREA (cm2)	4.440			
Y		DELIMITATION SQUARE (cm)	X: -2.000, 2.000			
04 X			Y: -2.000, 2.000			
		CENTRE OF GRAVITY (cm)	X: 0.00			
	PC0011		Y: 0.00			
		MOMENT OF INERTIA (cm4)	X: 10.197			
			Y: 10.197			
3		PRODUCT OF INERTIA (cm4)	XY: 0.000			
40		TURNING RADIUS (cm)	X: 1.516			
			Y: 1.516			
V		DESCRIPTION Alumin	um horizontal T profile			
		AREA (cm2)				
\ ammunummymmmmmmm		DELIMITATION SQUARE (cm)	X: -5.000, 5.000			
x		DELIMITATION SQUARE (CIT)	Y: -4.795, 1.235			
		CENTRE OF GRAVITY (cm)	X: 0.00			
	PC002	CENTRE OF CHANNE	Y: 0.00			
		MOMENT OF INERTIA (cm4)	X: 9.889			
		Memery of Memory	Y: 16.008			
		PRODUCT OF INERTIA (cm4)	XY: 0.00			
2		TURNING RADIUS (cm)	X: 1.780			
100			Y: 2.265			
		DESCRIPTION Aluminum horizontal Omega profile				
100		AREA (cm2)	3.221			
		DELIMITATION SQUARE (cm)	X: -5.000, 5.000			
		CENTER OF CRAVITY	Y: -1.596, 0.904			
	PC7453	CENTRE OF GRAVITY (cm)	X: 0.00			
		MOMENT OF INTERTIAL ()	Y: 0.00			
		MOMENT OF INERTIA (cm4)	X: 2.662			
		PROPLICE OF INTERTIA (4)	Y: 19.055			
33		PRODUCT OF INERTIA (cm4) TURNING RADIUS (cm)	XY: 0.00 X: 0.909			
		TURNING RADIUS (cm)				
			Y: 2.432			
Y		DESCRIPTION Stainless steel plate 75x40x10 mm				
		AREA (cm2)	7.500			
		CENTRE OF GRAVITY (cm) MOMENT OF INERTIA (cm4)	X: -0.500, 0.500			
			Y: -3.750 3.750			
X	VPT001		X: 0.00			
— X	VEIUUI		Y: 0.00			
			X: 35.157			
			Y: 0.625			
		PRODUCT OF INERTIA (cm4)	XY: 0.00			
10		TURNING RADIUS (cm)	X: 2.165			
X—X			Y: 0.289			

Inside-Outside System **ELEMENTS DETAILS**

Shanghai: +86 021 5273 0108 Guangzhou: +86 020 8944 7597 info@frontekbuild.com

PROJECT

CLIENT

ARCHITECT

CONSULTANT

KEY PLAN/ELEVATION ELEMENTS DETAILS

1/10 REVIEW

A3

05-01 SHEET 2015-05-05

DATE

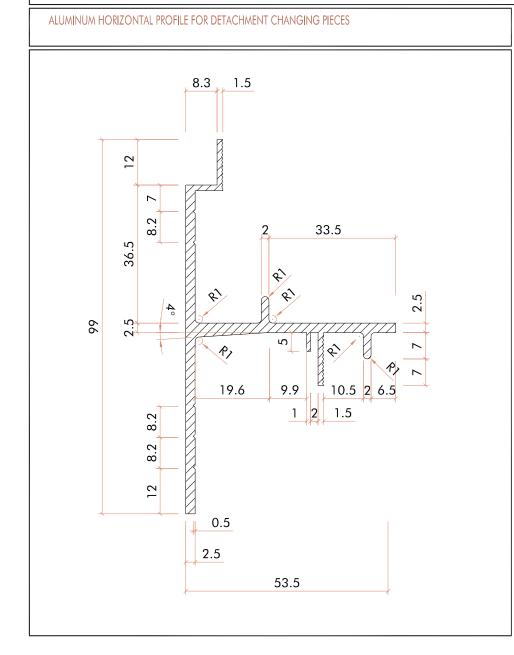
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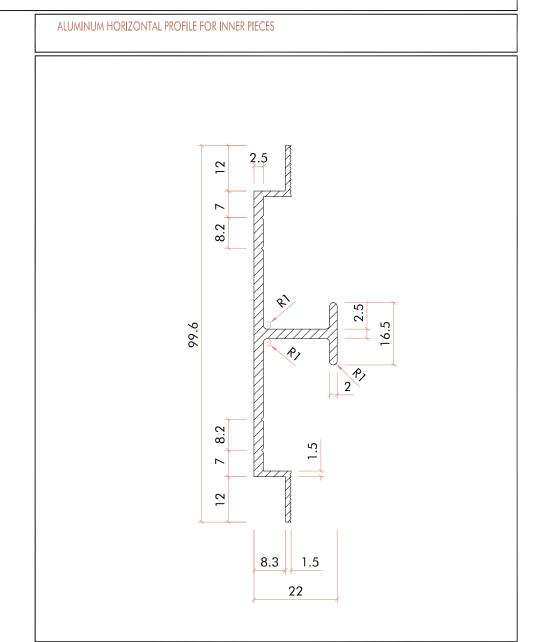
DRAWING BEATRIZ QUINTANA

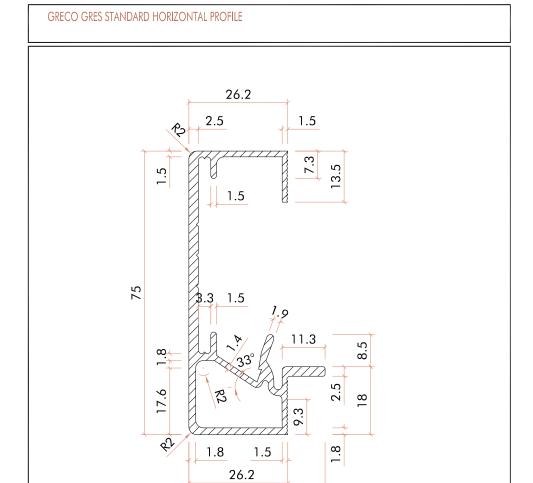
SCALE

DESIGN -

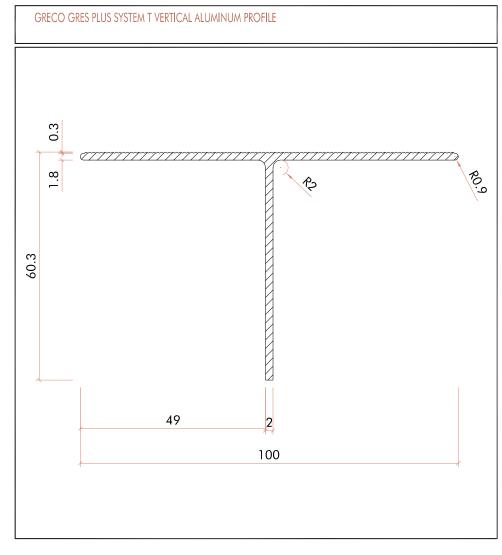
ALUMINUM PROFILES DETAIL





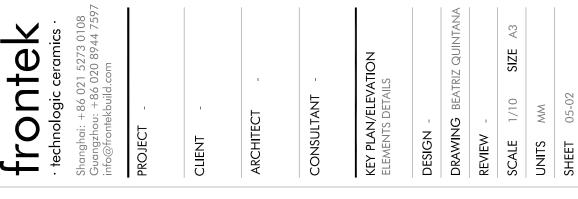


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ELEMENTS DETAILS

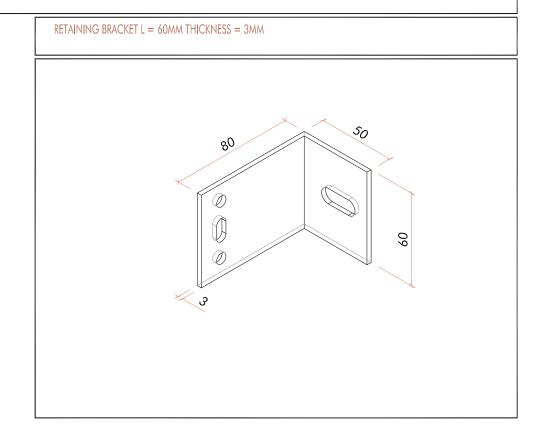


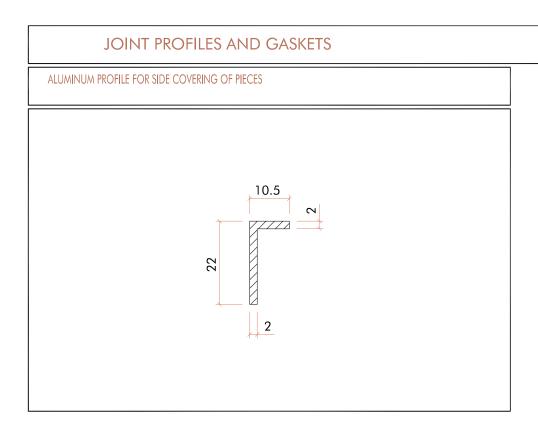


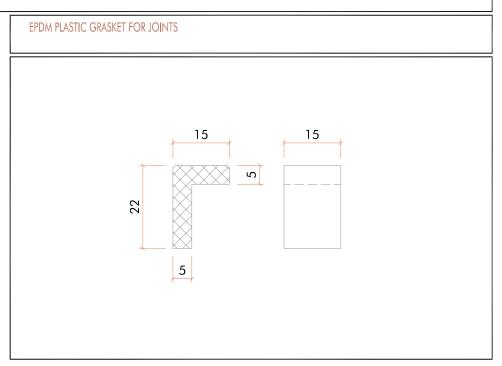
2015-05-05

DATE

BRACKETS SUPPORTING BRACKET L = 151MM THICKNESS = 3MM 50 151







Inside-Outside System **ELEMENTS DETAILS**

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PROJECT

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ARCHITECT

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KEY PLAN/ELEVATION ELEMENTS DETAILS

DESIGN -

DRAWING BEATRIZ QUINTANA REVIEW

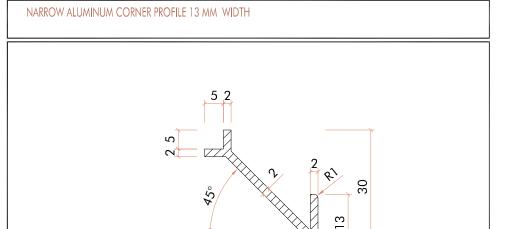
1/10 $\overset{\vee}{\mathbb{A}}$

A3

05-03 SCALE UNITS SHEET 2015-05-05

ALUMINUM CORNER PROFILES

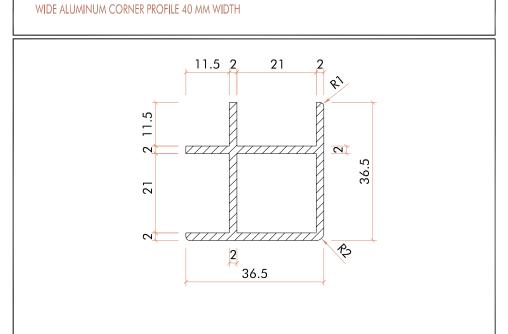
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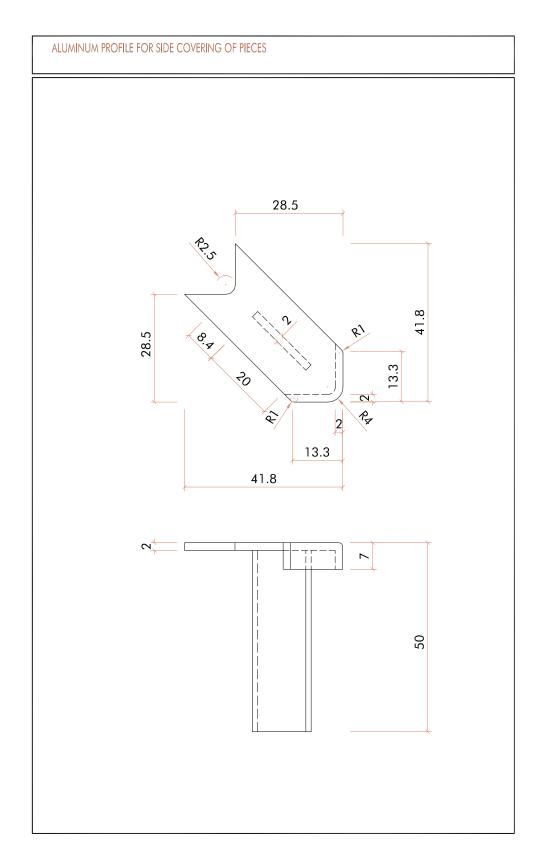


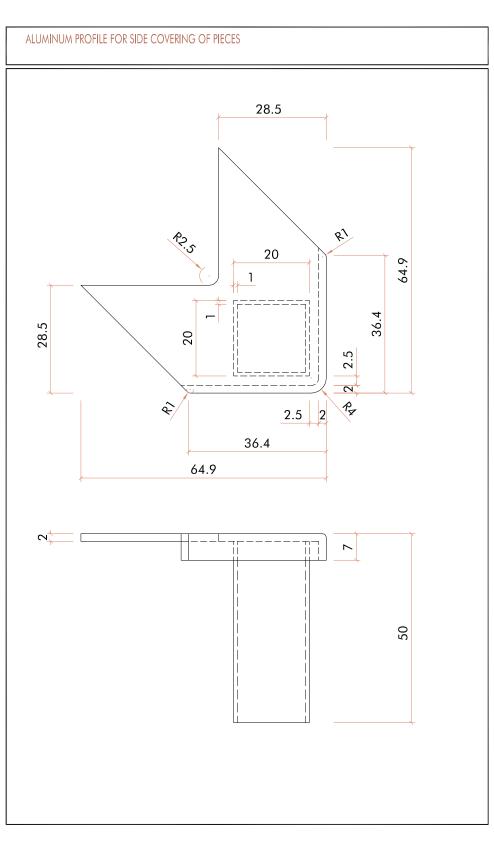
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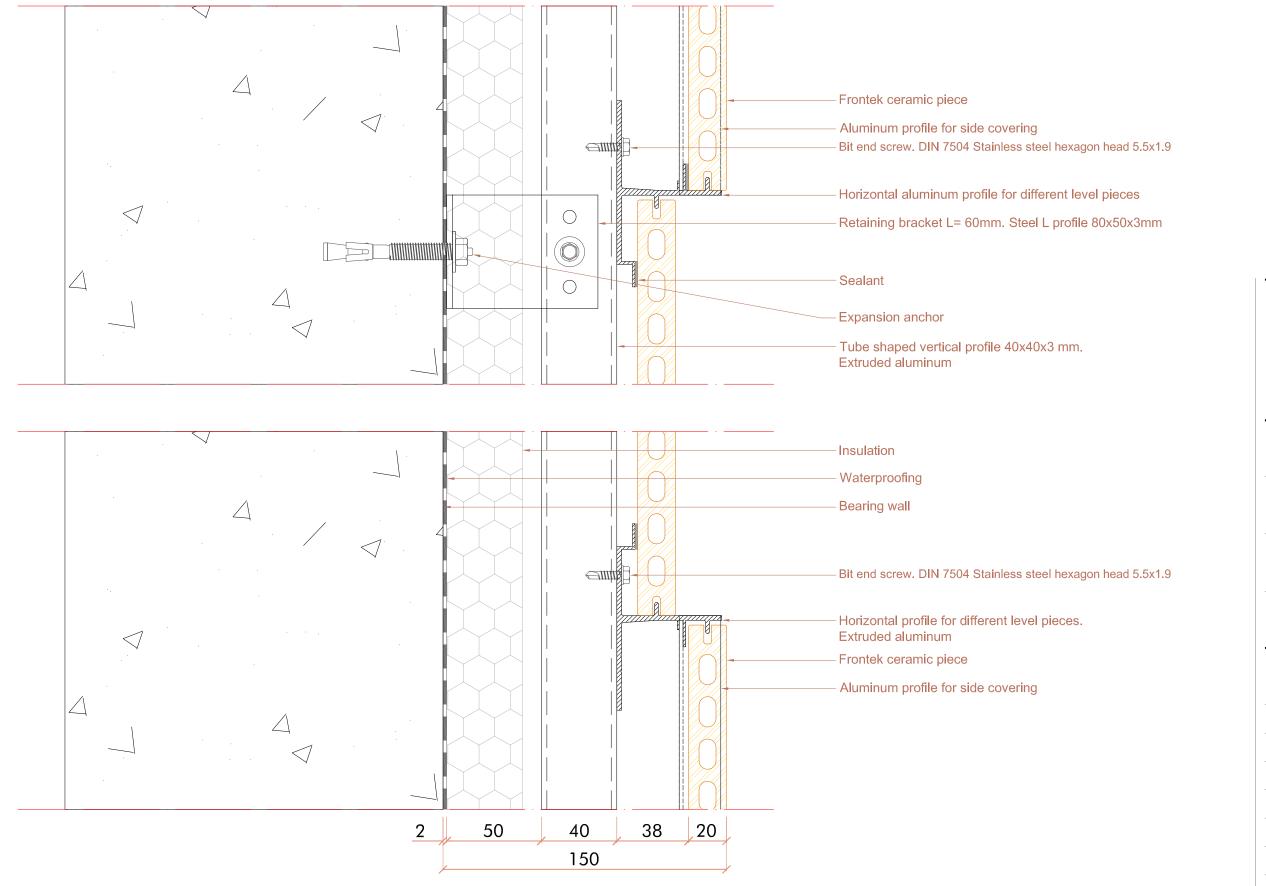
13







VERTICAL SECTION. DIFFERENT LEVEL PIECES



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PROJECT -

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ARCHITECT

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KEY PLAN/ELEVATION

VERTICAL SECTION
DIFFERENT LEVEL PIECES

DESIGN -

DRAWING BEATRIZ QUINTANA

REVIEW -

SCALE 1/20 SIZE A3

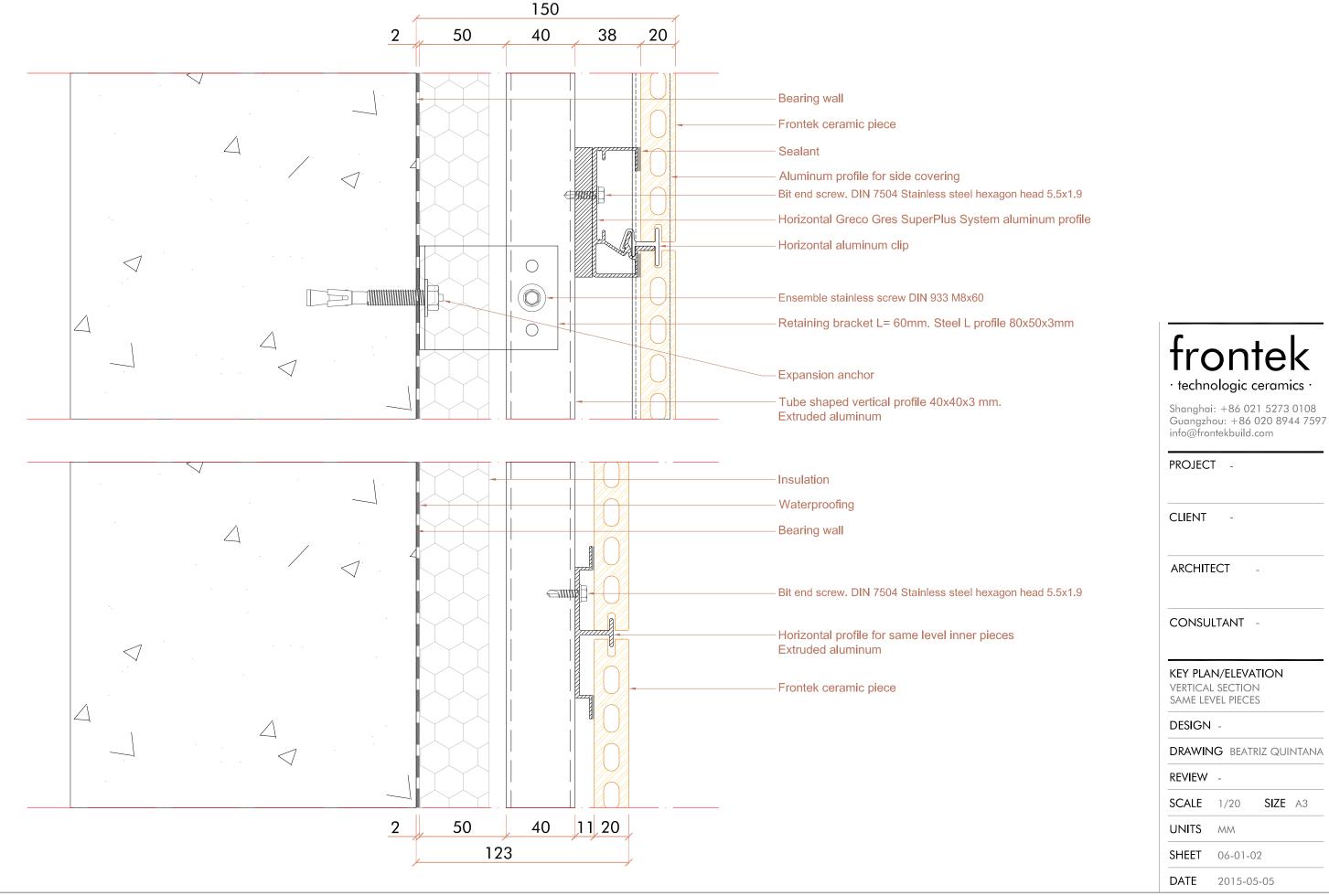
UNITS MM

7717

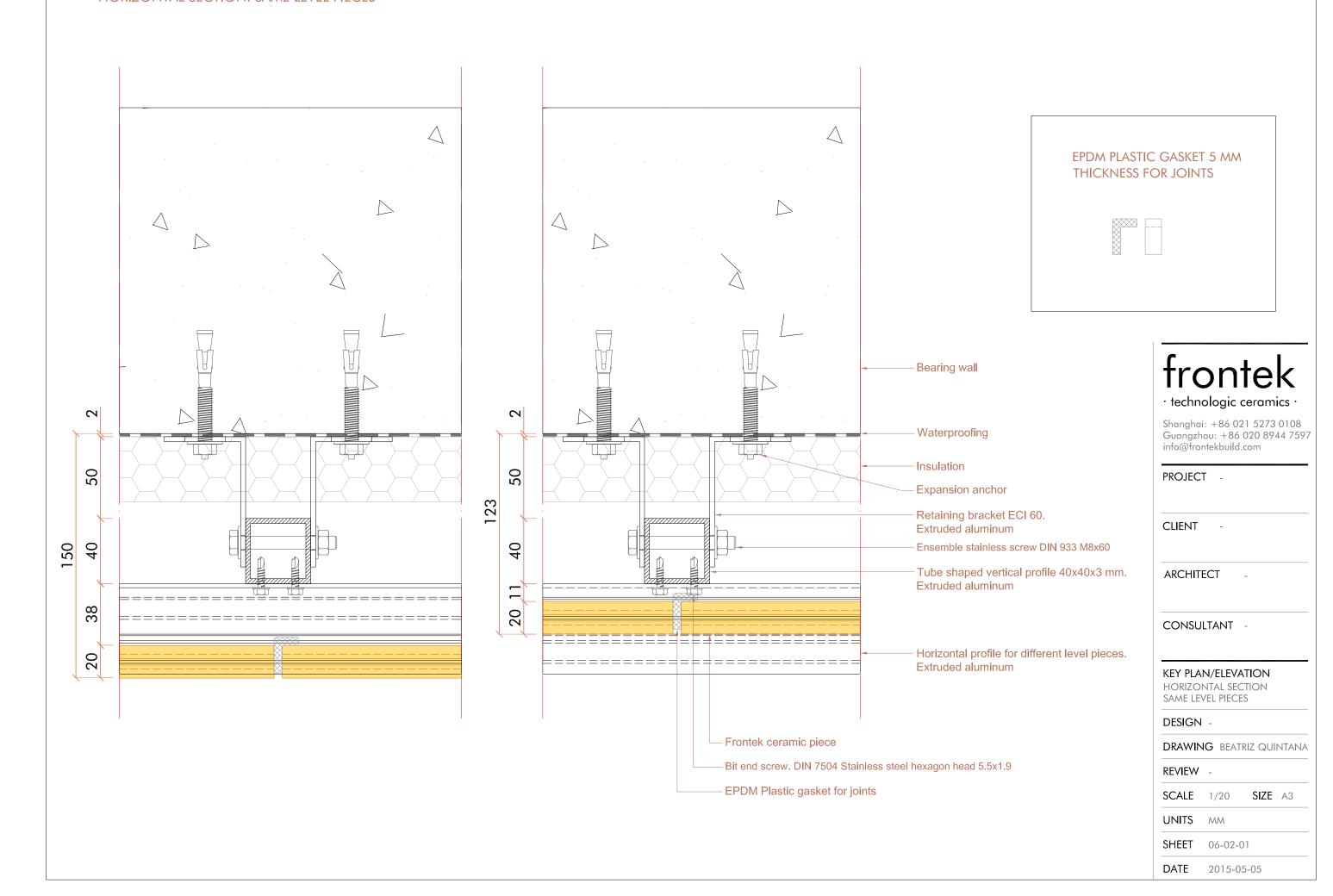
SHEET 06-01-01

DATE 2015-05-05

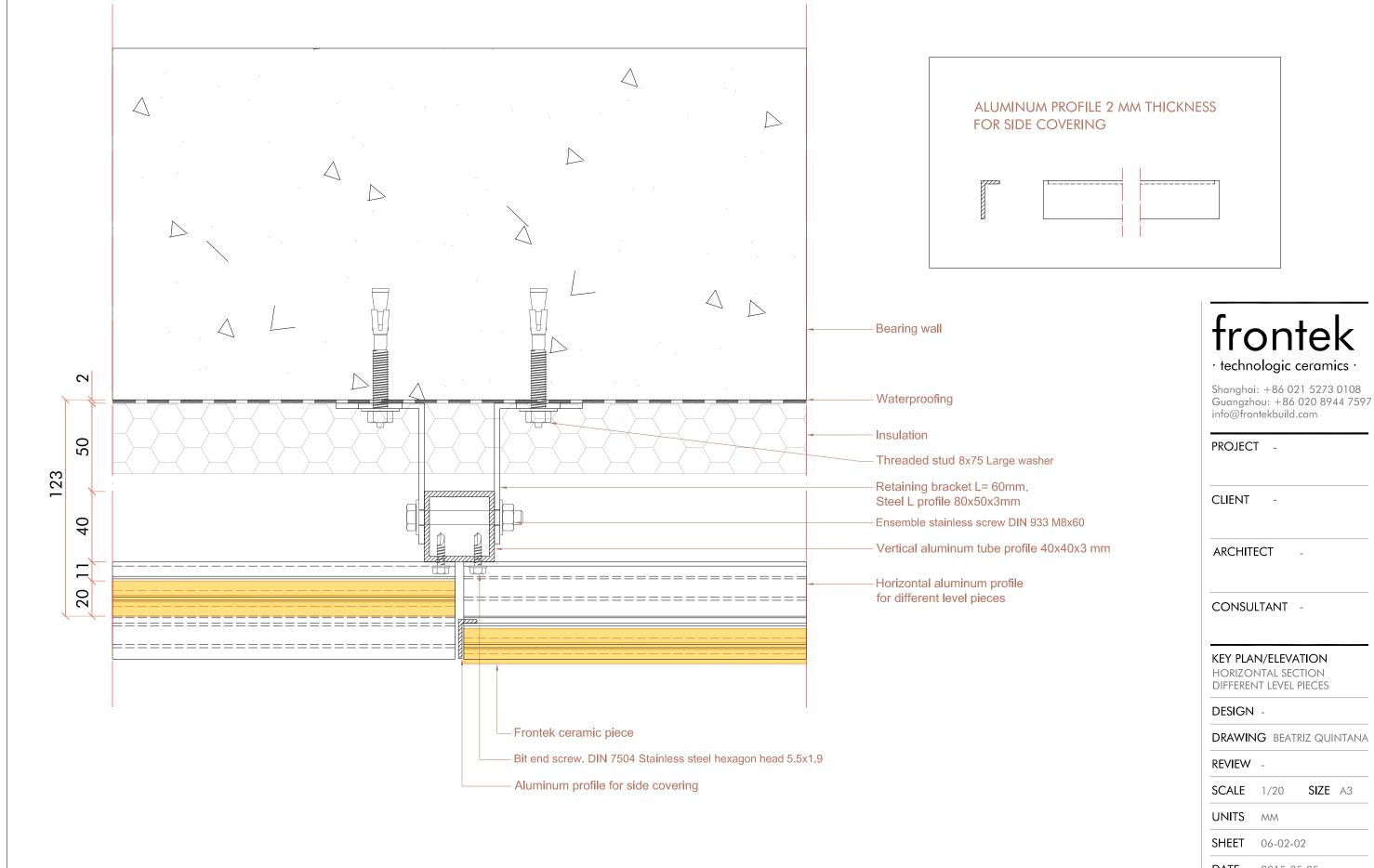
VERTICAL SECTION. SAME LEVEL PIECES



HORIZONTAL SECTION. SAME LEVEL PIECES



HORIZONTAL SECTION. DIFFERENT LEVEL PIECES

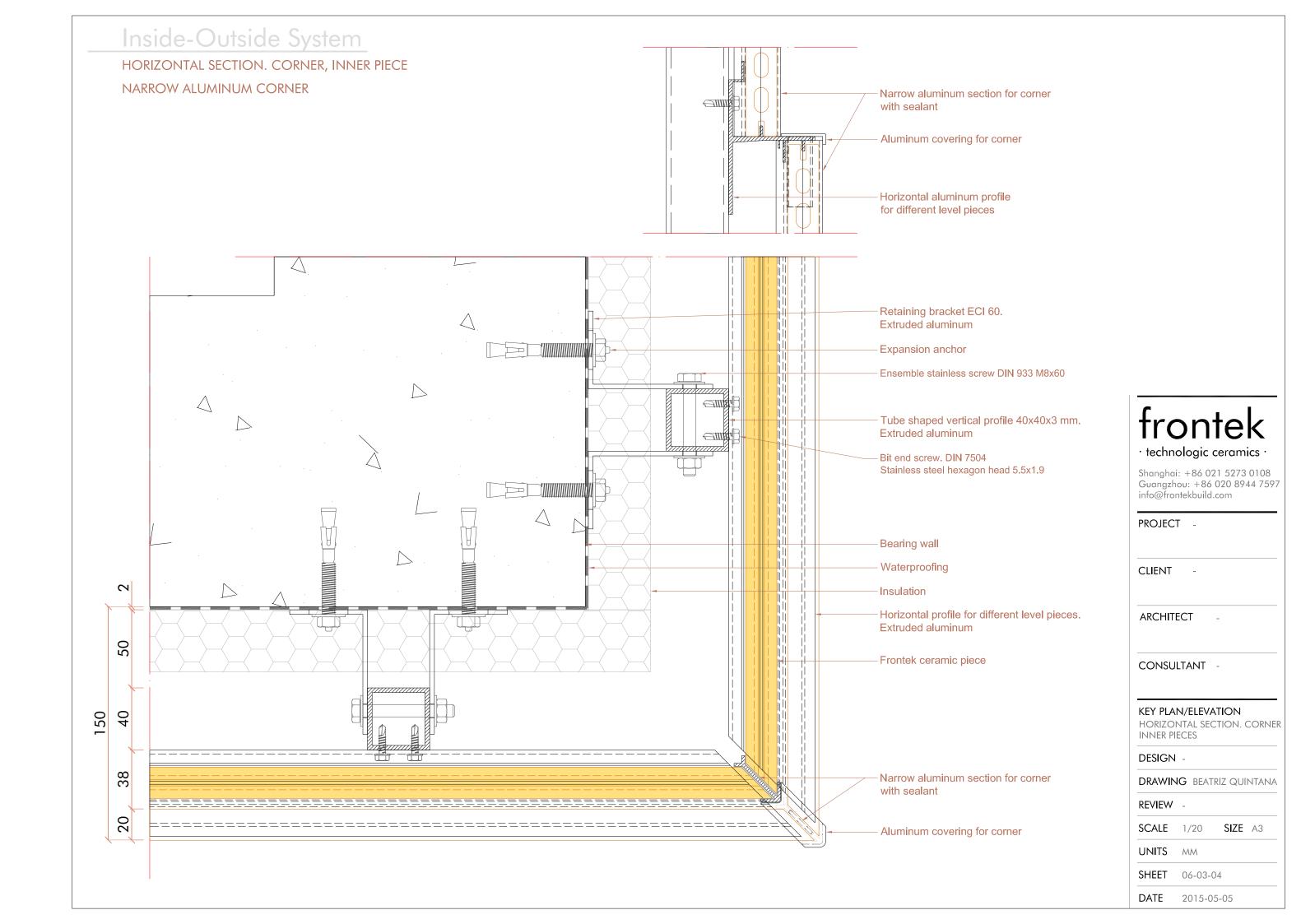


DATE 2015-05-05

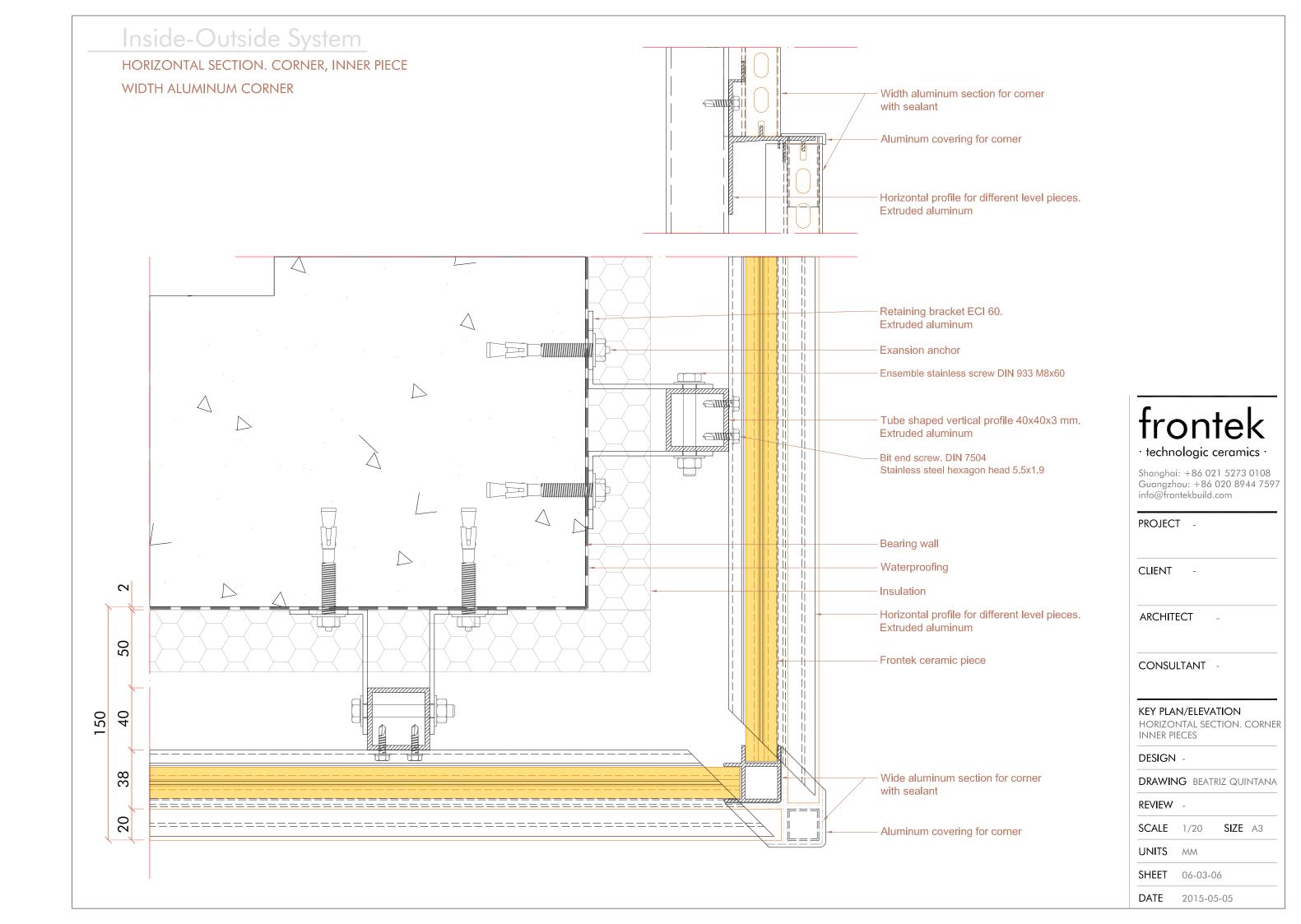
Inside-Outside System HORIZONTAL SECTION. CORNER, OUTER PIECE FRONTEK 45° CUT - Bearing wall Waterproofing \triangle -Insulation Retaining bracket ECI 60. Extruded aluminum Exansion anchor Ensemble stainless screw DIN 933 M8x60 frontek Tube shaped vertical profile 40x40x3 mm. Extruded aluminum · technologic 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 -CLIENT Frontek ceramic piece 7 Horizontal profile for different level pieces. ARCHITECT Extruded aluminum 50 CONSULTANT -KEY PLAN/ELEVATION 50 40 HORIZONTAL SECTION. CORNER **OUTER PIECES** DESIGN -38 DRAWING BEATRIZ QUINTANA REVIEW -20 SCALE 1/20 SIZE A3 UNITS MM SHEET 06-03-01 DATE 2015-05-05

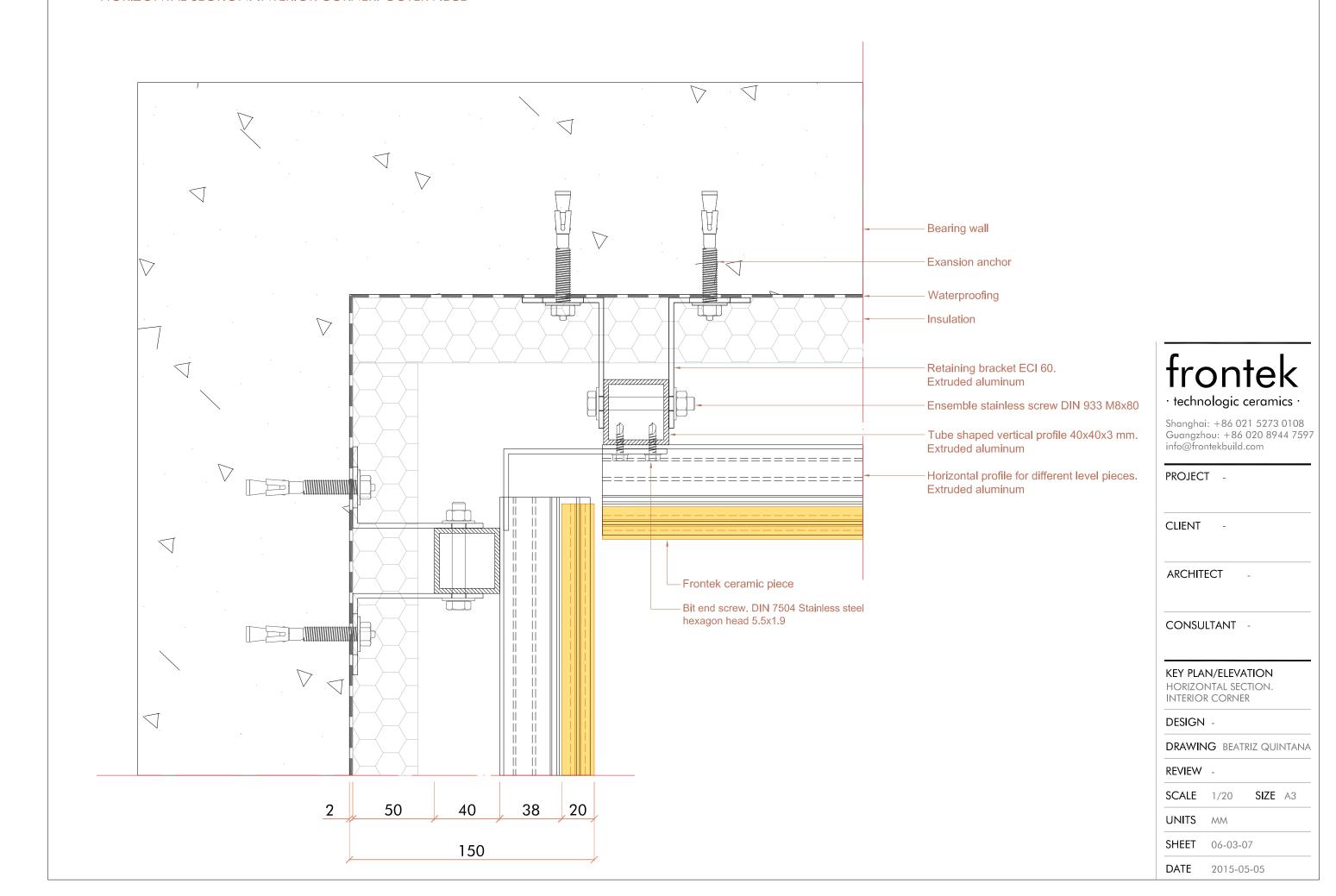
Inside-Outside System HORIZONTAL SECTION. CORNER, INNER PIECE FRONTEK 45° CUT - Bearing wall - Waterproofing \triangle -Insulation Retaining bracket ECI 60. Extruded aluminum **Expansion** anchor Ensemble stainless screw DIN 933 M8x60 frontek Tube shaped vertical profile 40x40x3 mm. Extruded aluminum · 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 -Horizontal aluminum profile for different level pieces CLIENT Frontek ceramic piece 7 ARCHITECT 50 CONSULTANT -KEY PLAN/ELEVATION 50 40 HORIZONTAL SECTION. CORNER INNER PIECES DESIGN -38 DRAWING BEATRIZ QUINTANA REVIEW -SCALE 1/20 SIZE A3 UNITS MM SHEET 06-03-02 DATE 2015-05-05

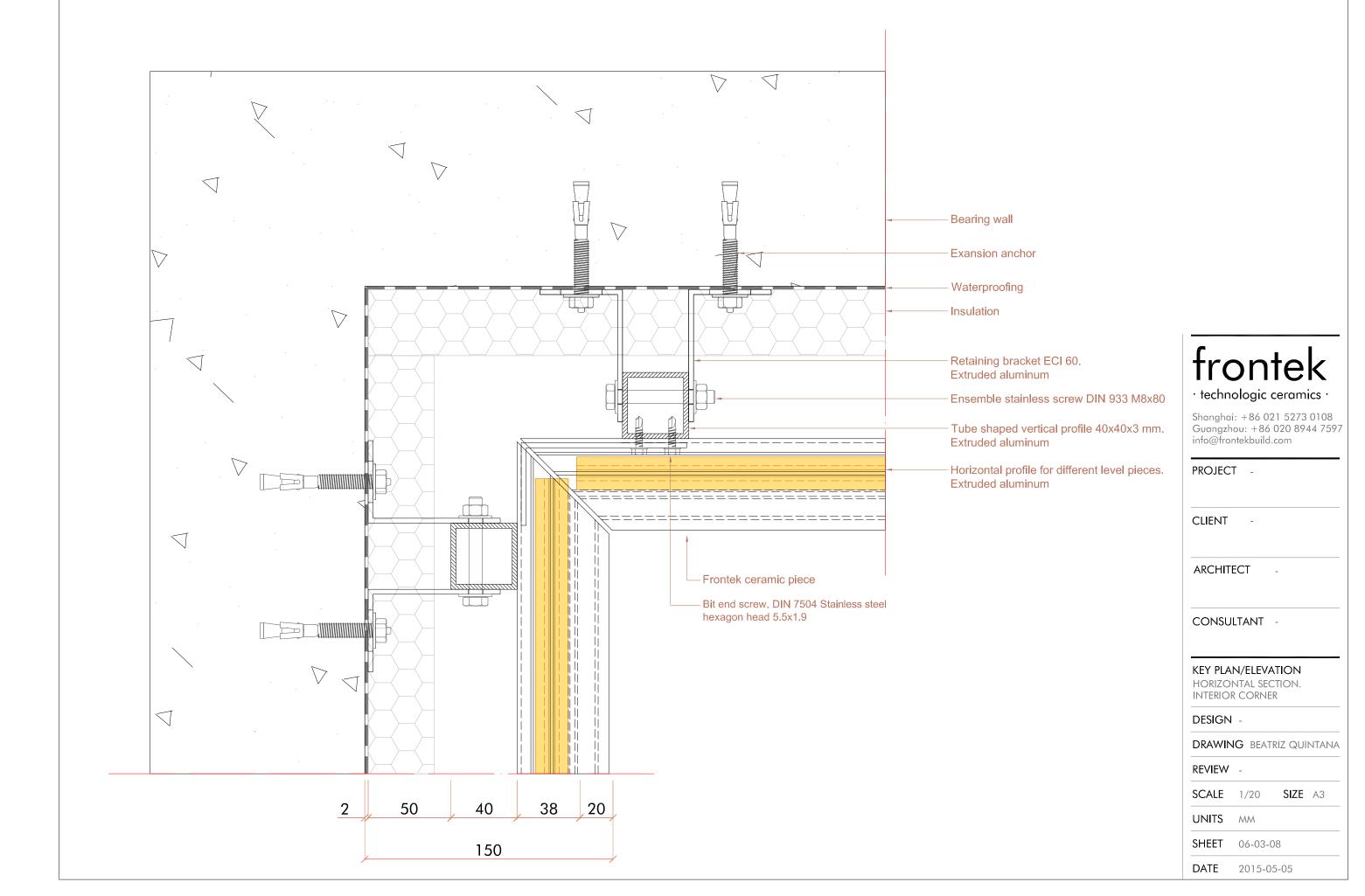
Inside-Outside System HORIZONTAL SECTION. CORNER, OUTER PIECE NARROW ALUMINUM CORNER \triangle Retaining bracket ECI 60. Extruded aluminum Exansion anchor Ensemble stainless screw DIN 933 M8x60 frontek Tube shaped vertical profile 40x40x3 mm. Extruded aluminum · technologic ceramics · Bit end screw. DIN 7504 Stainless steel hexagon head 5.5x1.9 Shanghai: +86 021 5273 0108 Guangzhou: +86 020 8944 7597 info@frontekbuild.com PROJECT -Bearing wall Waterproofing CLIENT 7 Insulation Horizontal profile for different level pieces. ARCHITECT Extruded aluminum 50 Frontek ceramic piece CONSULTANT -KEY PLAN/ELEVATION 50 40 HORIZONTAL SECTION. CORNER **OUTER PIECES** DESIGN -38 DRAWING BEATRIZ QUINTANA REVIEW -20 SCALE 1/20 SIZE A3 Narrow aluminum section for corner with sealant UNITS MM SHEET 06-03-03 DATE 2015-05-05



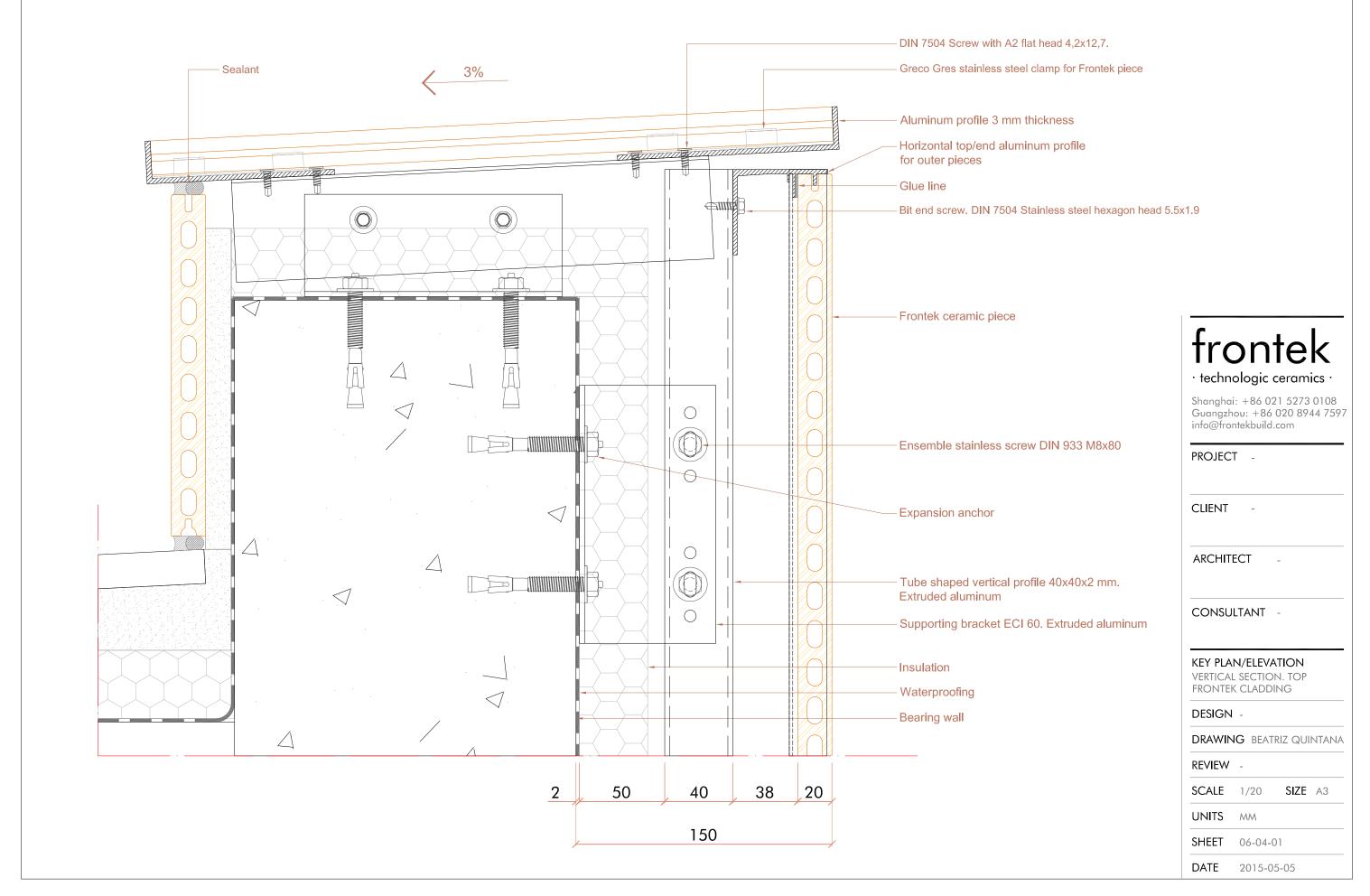
Inside-Outside System HORIZONTAL SECTION. CORNER, OUTER PIECE WIDTH ALUMINUM CORNER \triangle Retaining bracket ECI 60. Extruded aluminum Exansion anchor Ensemble stainless screw DIN 933 M8x60 frontek Tube shaped vertical profile 40x40x3 mm. Extruded aluminum · technologic ceramics · - Bit end screw. DIN 7504 Stainless steel hexagon head 5.5x1.9 Shanghai: +86 021 5273 0108 Guangzhou: +86 020 8944 7597 info@frontekbuild.com PROJECT -Bearing wall Waterproofing CLIENT 7 Insulation Horizontal profile for different level pieces. ARCHITECT Extruded aluminum 50 Frontek ceramic piece CONSULTANT -KEY PLAN/ELEVATION 50 40 HORIZONTAL SECTION. CORNER **OUTER PIECES** DESIGN -38 DRAWING BEATRIZ QUINTANA REVIEW -Width aluminum section for corner SCALE 1/20 SIZE A3 with sealant UNITS MM SHEET 06-03-05 DATE 2015-05-05



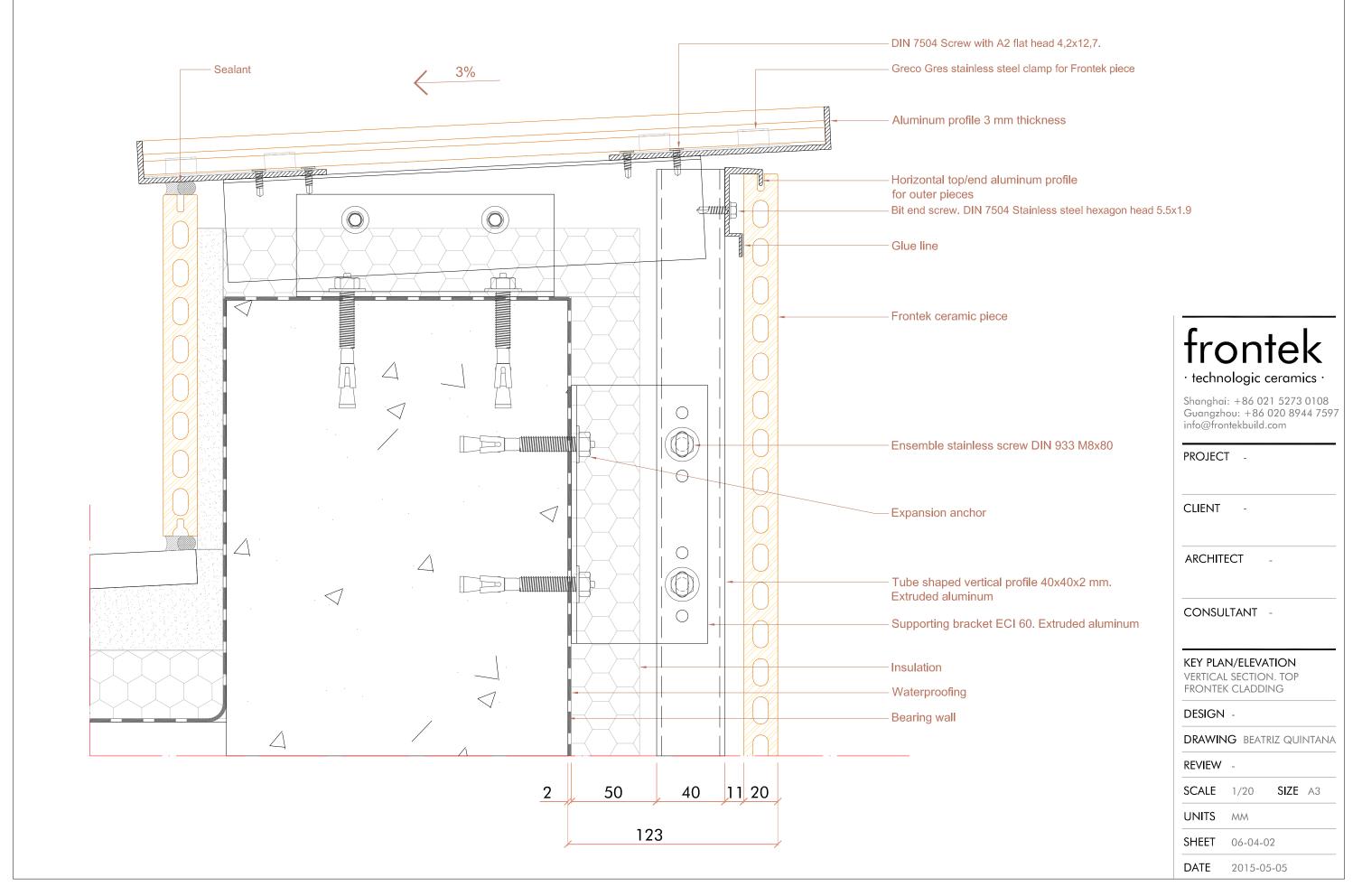




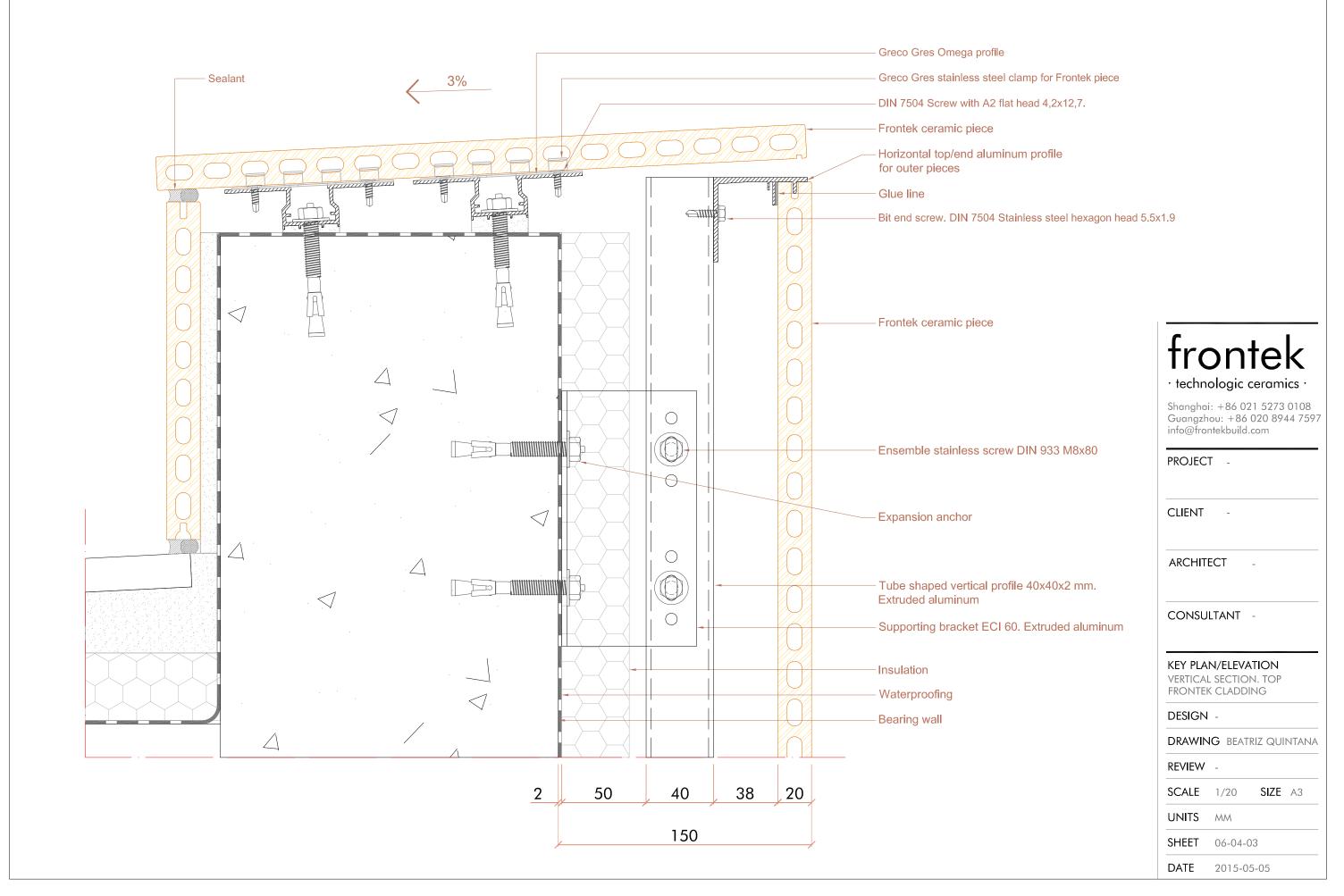
VERTICAL SECTION. TOP CLADDING.
FRONTEK PANEL CLADDING



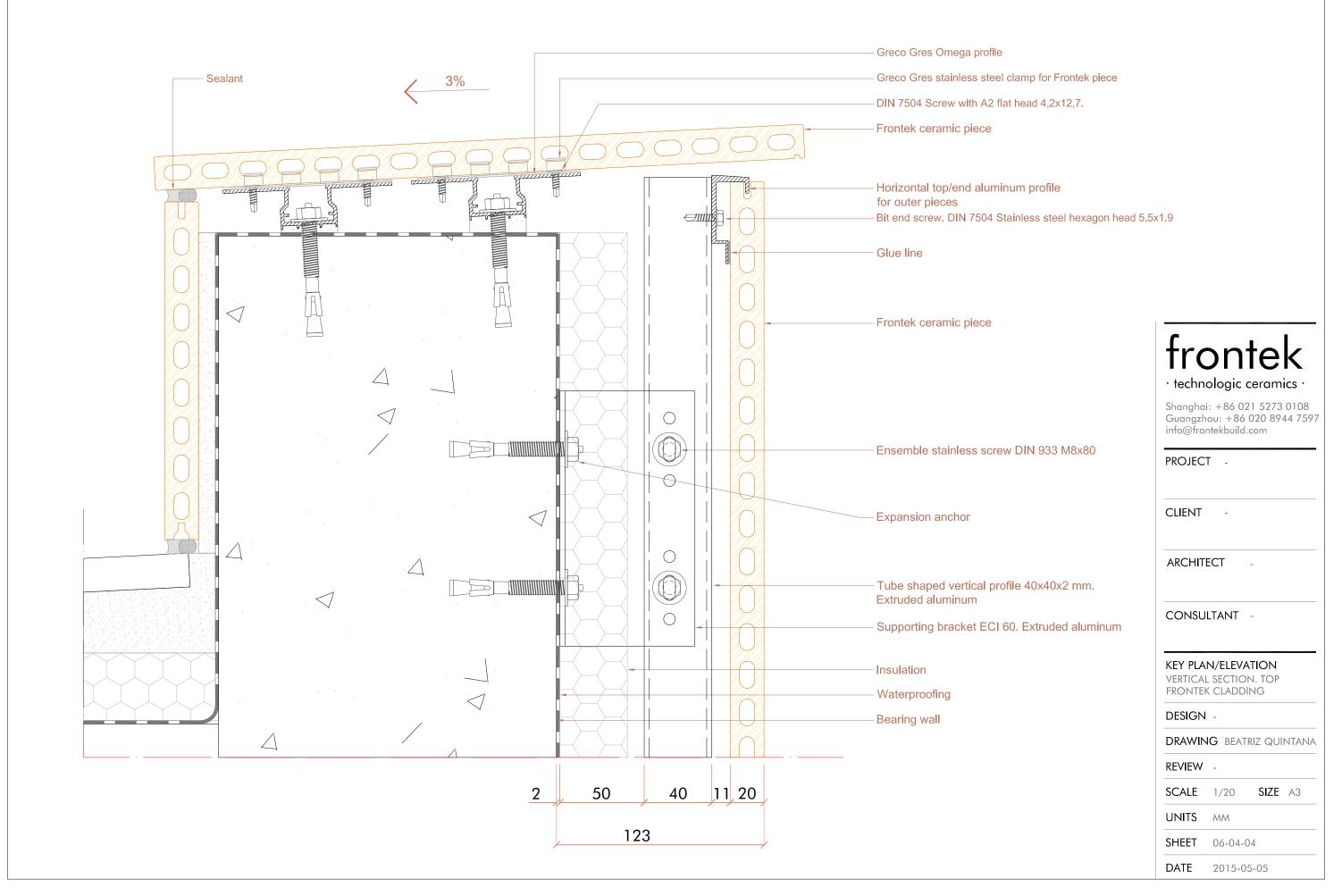
VERTICAL SECTION. TOP CLADDING.
FRONTEK PANEL CLADDING



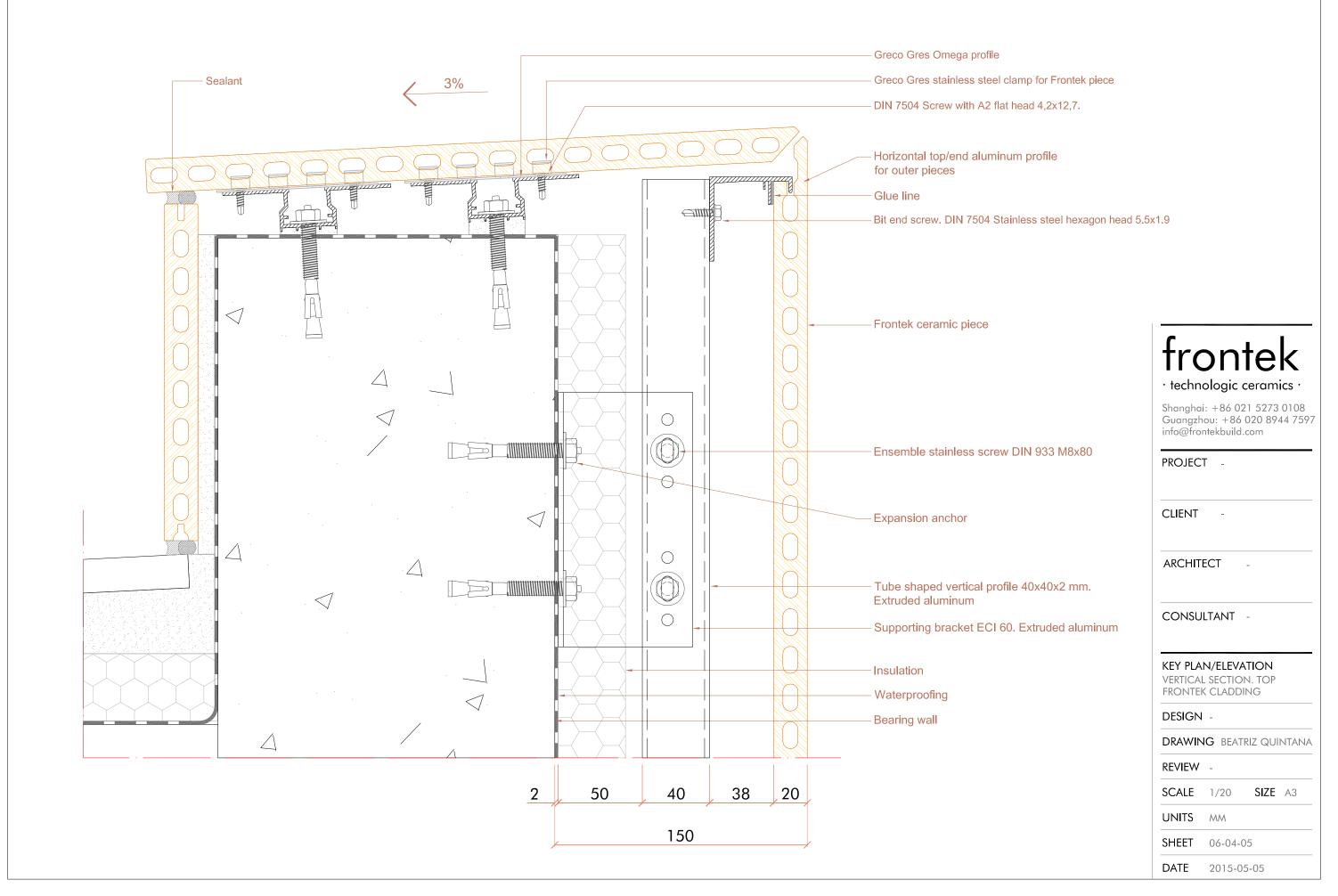
VERTICAL SECTION. TOP CLADDING, OUTER PIECE FRONTEK PANEL CLADDING



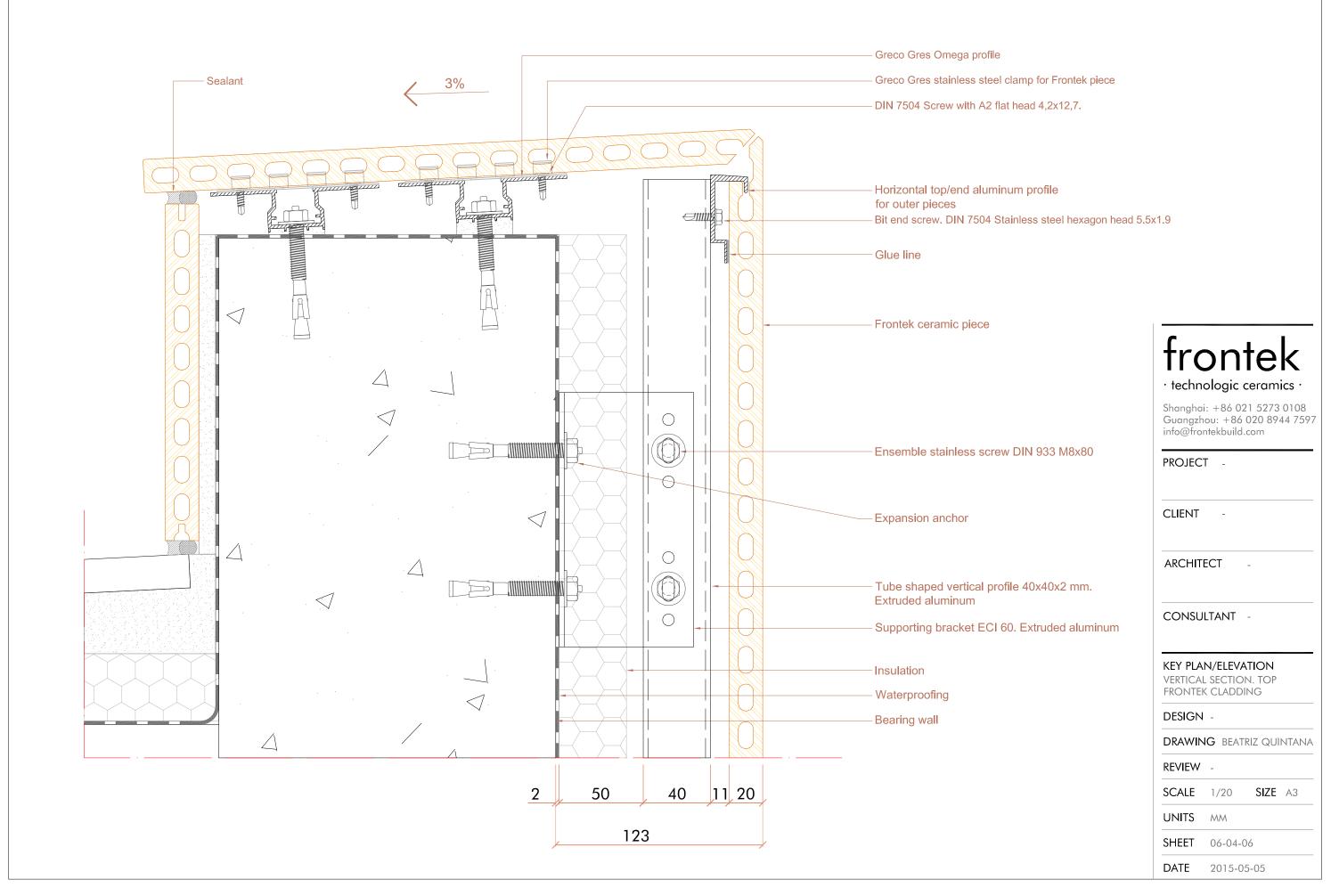
VERTICAL SECTION. TOP CLADDING, INNER PIECE FRONTEK PANEL CLADDING



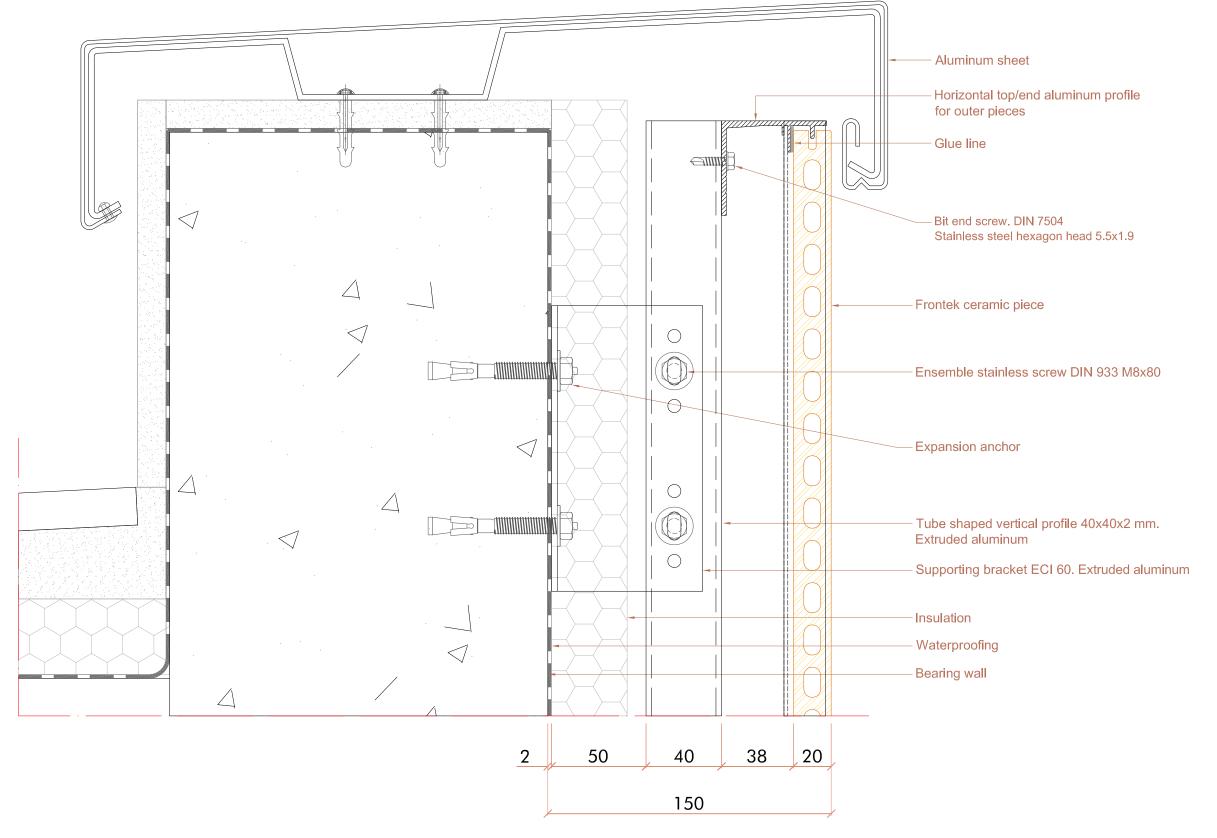
VERTICAL SECTION. TOP CLADDING, OUTER PIECE FRONTEK MITER CUT



VERTICAL SECTION. TOP CLADDING, INNER PIECE FRONTEK MITER CUT



VERTICAL SECTION. TOP CLADDING, OUTER PIECE ALUMINUM CLADDING



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PROJECT -

CLIENT

ARCHITECT

CONSULTANT -

KEY PLAN/ELEVATION

VERTICAL SECTION. TOP ALUMINIUM CLADDING

DESIGN -

DRAWING BEATRIZ QUINTANA

REVIEW -

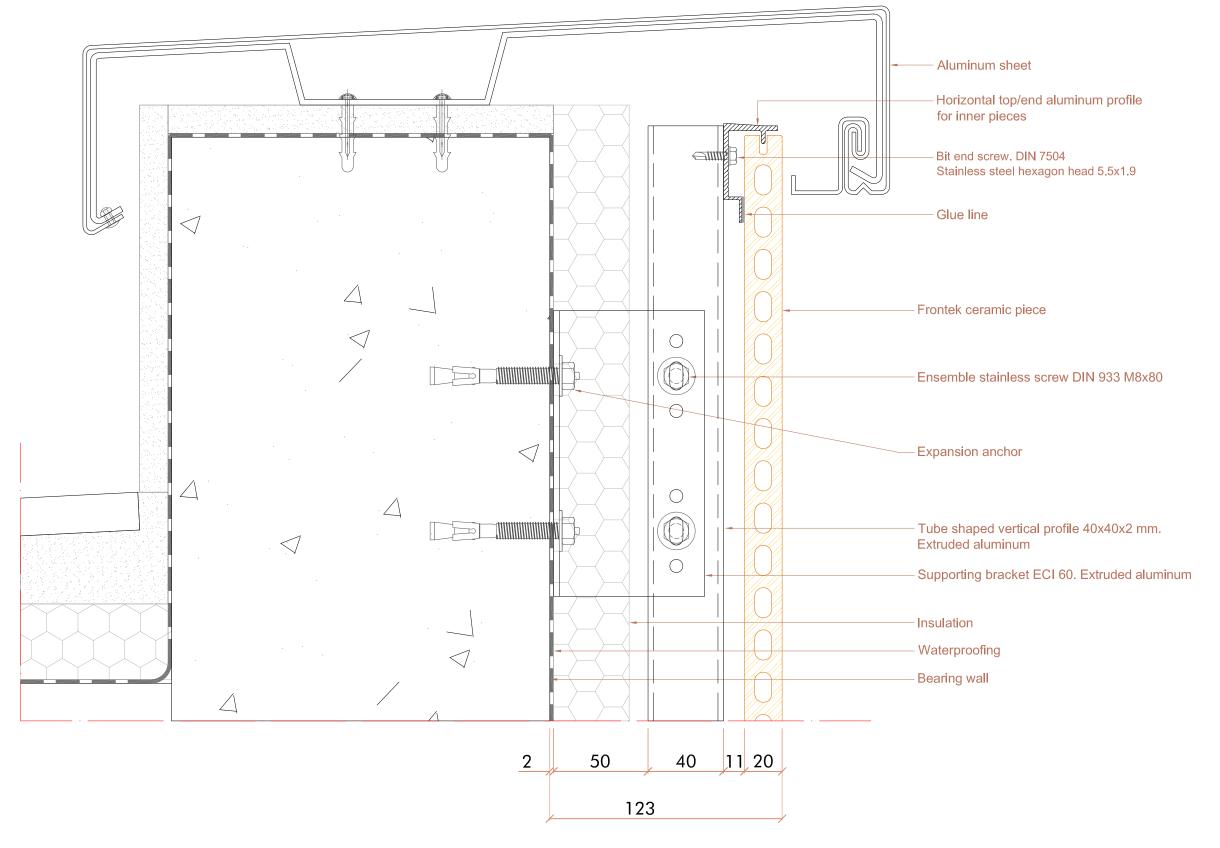
SCALE 1/20 SIZE A3

UNITS MM

SHEET 06-04-07

DATE 2015-05-05

VERTICAL SECTION. TOP CLADDING, INNER PIECE ALUMINUM CLADDING



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PROJECT -

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CONSULTANT -

KEY PLAN/ELEVATION

VERTICAL SECTION. TOP ALUMINIUM CLADDING

DESIGN -

DRAWING BEATRIZ QUINTANA

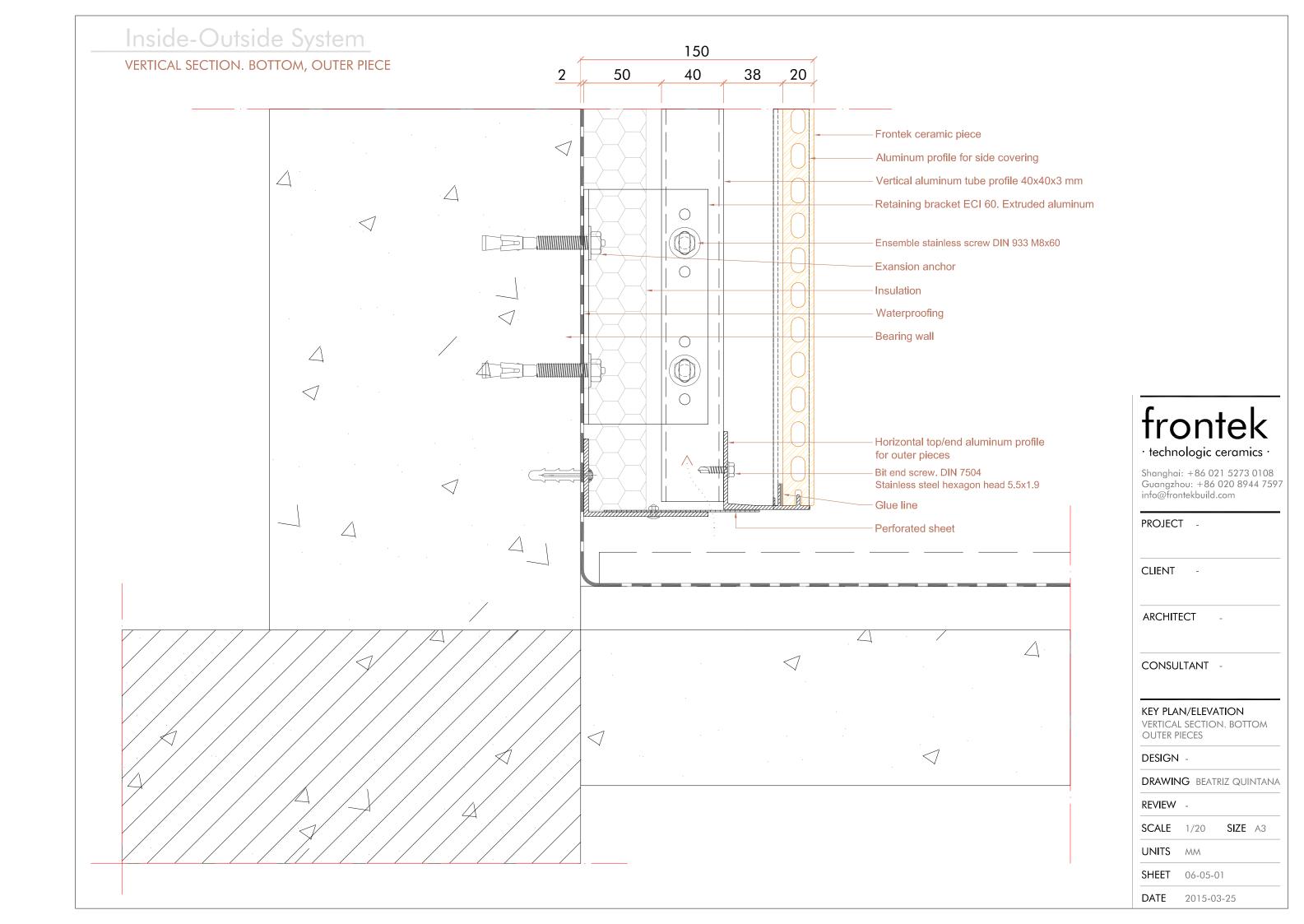
REVIEW -

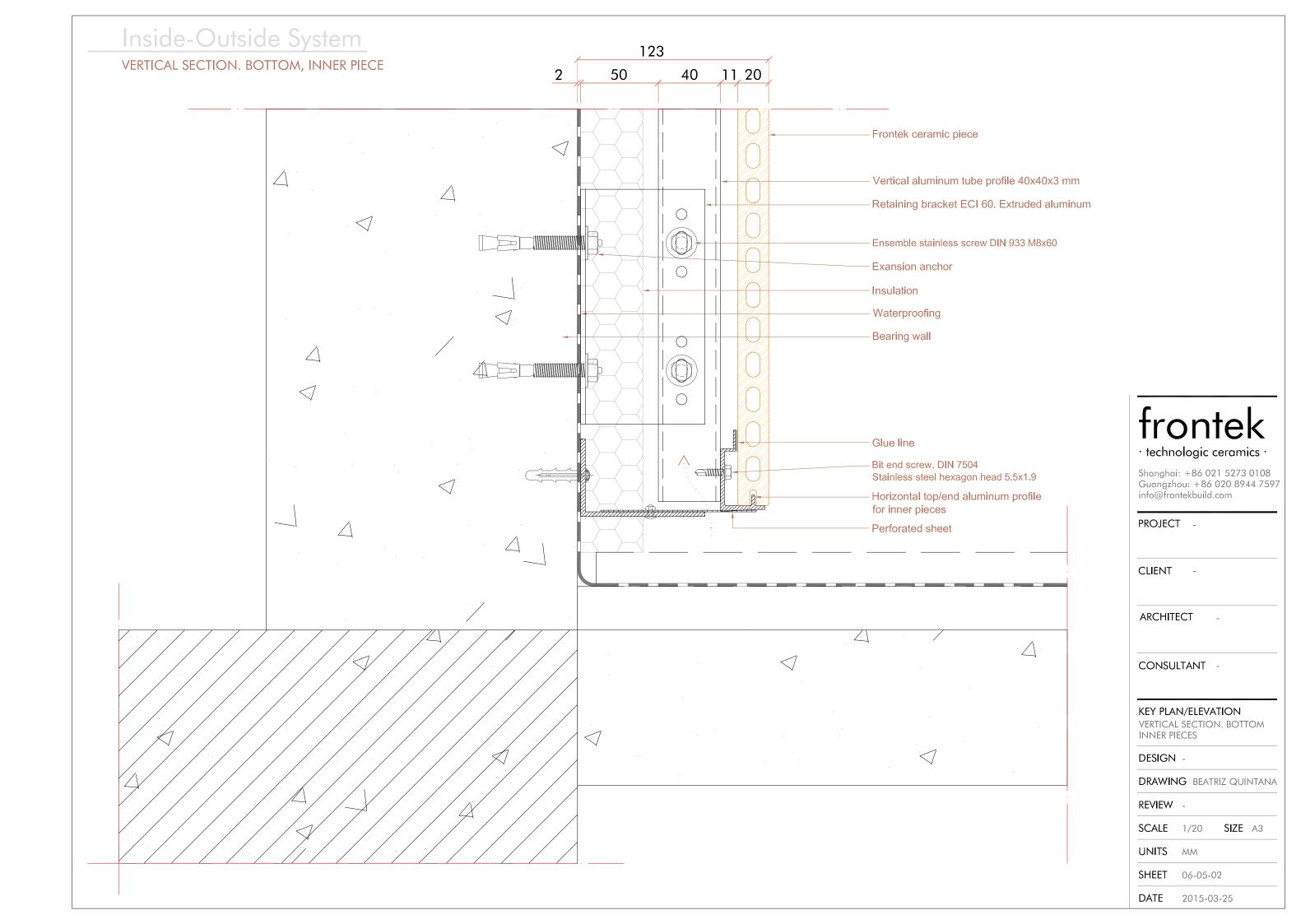
SCALE 1/20 SIZE A3

UNITS MM

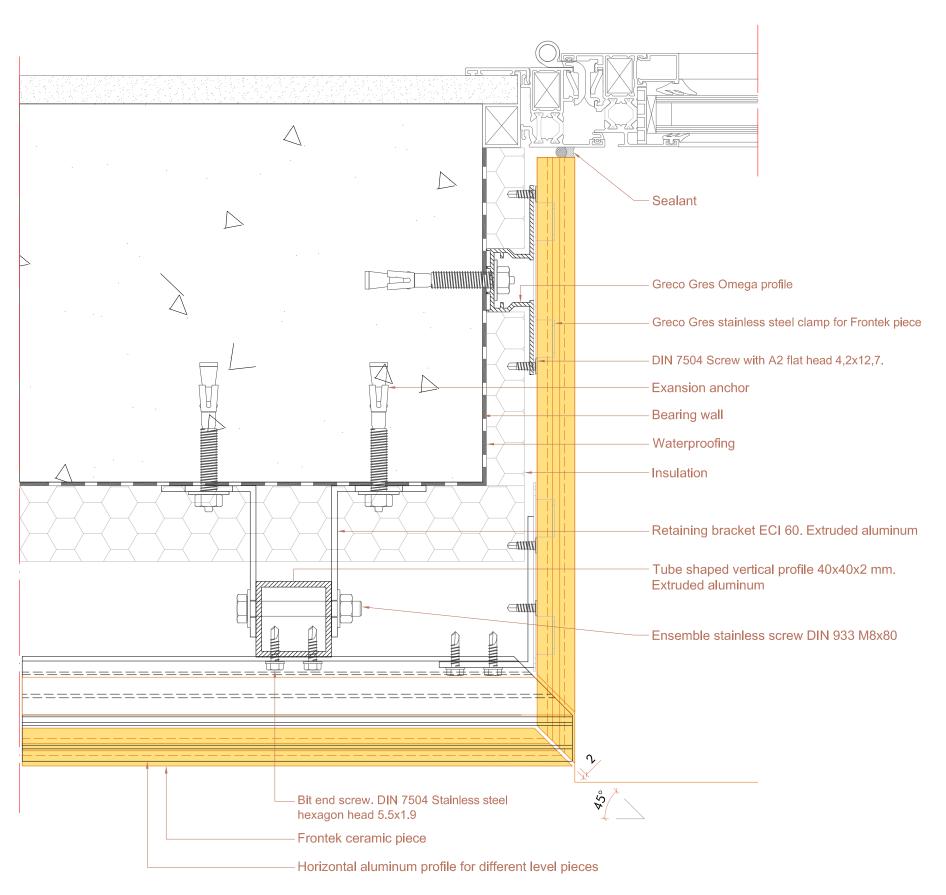
SHEET 06-04-08

DATE 2015-05-05

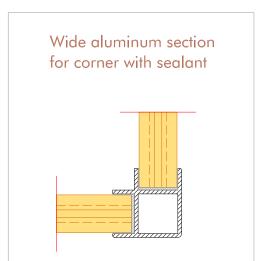




HORIZONTAL SECTION. WINDOW FRONTEK 45° CUT







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PROJECT -

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KEY PLAN/ELEVATION

HORIZ. SECTION. WINDOW FRONTEK FINISHING

DESIGN -

DRAWING BEATRIZ QUINTANA

REVIEW -

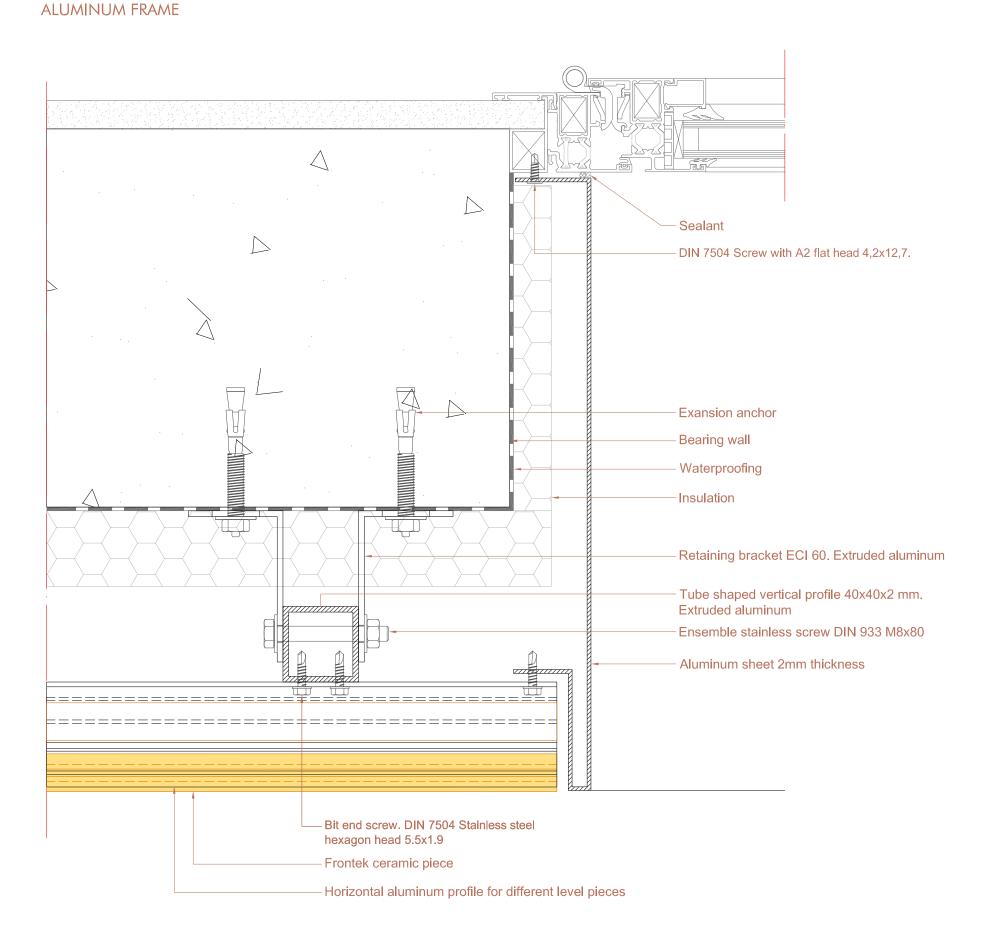
SIZE A3 SCALE 1/20

UNITS MM

SHEET 06-06-01

DATE 2015-05-05

HORIZONTAL SECTION. WINDOW



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PROJECT -

CLIENT

ARCHITECT

CONSULTANT -

KEY PLAN/ELEVATION

HORIZ. SECTION. WINDOW ALUMINIUM FRAME

DESIGN -

DRAWING BEATRIZ QUINTANA

REVIEW -

SCALE 1/20 SIZE A3

UNITS MM

3 //////

SHEET 06-06-02

DATE 2015-05-05

