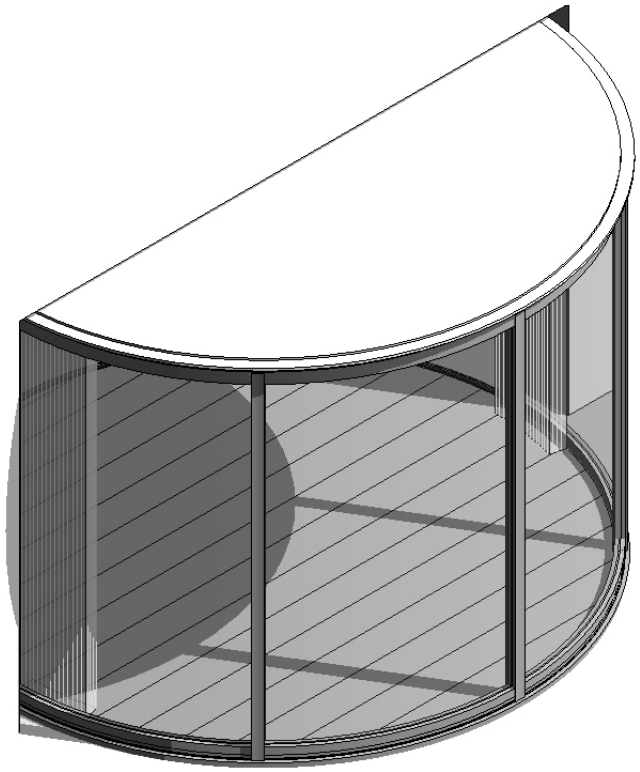
LUMICENE G5

TECHNICAL DESCRIPTION v102017

Reversible Aluminum joinery by rotary sliding
In «bow-window» position LUMICENE is a closed window.
In «balcony» position LUMICENE is an open window.



Description

Set consisting of the following elements:

- Half lower aluminum+ outer rail with thermal break. Installed on leveling jacks according to height.
- Half lower aluminum+ inner rail laid on jacks on the rough floor then built-in the finished floor. Special version available for floor without screed.
- Half upper rail in mixed aluminum / synthetic resin equipped on its half outer perimeter of a curtain rod.
- 4 to 6 independent pannels made of aluminum with thermal break, sliding between the upper and lower rails. Equipped with curved glazing 6 (20argon) 6 Planitherm Ultra, as standard, made by Saint Gobain.
- 3-axis locks and opening handles on the 2 end pannels.
- Needle rollers.

Performance

- Available Glazing :

	Double glazing (Standard)	Double glazing-silence (38dB)	Double glazing STADIP	Triple glazing
Structure (mm)	6(20)6	10(20)44.2Si	10(20)44.2	6(12)4(12)6
Thickness (mm)	32	39	39	36
Ug W/(m².K)	1,0	1,1	1,1	0,7
Rw (dB)		42		

- Uw* with 6(20argon)6 Planitherm: 1,6 W/(M².K).
- AEV* ranking : A*3 E*5B V*C3
- Sound attenuation* up to 38DB with a 10(20)44.2Si glazing

**results with the older generation, new tests in progress. Results available in January 2018*

Installation

- Installation by LUMICENE teams
- Installation before lining and coating.
- Chassis locked and plasticized during construction.
- False ceiling plasterboard on metal structure and lighting spots to be provided with the other stakeholders.
- Laying of the LUMICENE according to the level line 1 m above the finished floordeemed exact.

Manufacturing

- Manufactured by Sovedys, a Saint-Gobain Group's subsidiary

BIM Objects

DWG VWX SKP IFC RVT NDW PLN

- Download objects on www.lumicene.com/documentation/cao-bim/
- Objects accessible in the Doors / Windows category.
- Possibility of setting the opening rate of the LUMICENE for a dynamic rendering of the project.
- Possibility of setting the opening or closing of the interior cutains blinds.

Colors

- RAL 7016 as standard
- Every RAL shades available in option

Solar protection

- Curved curtain rod on the exterior perimeter installed as standard.
- Optional curved rod for vertical blinds. Solar or blackout canvas, samples available on request.
- Optional external screen blinds with horizontal scrolling. Serge Ferrari canvas.

Dimensions

Diameter (cm)	300	350	400	500	600
Available heights (cm)	225/250	225/250	225/250	225/250	225/250
Flooring surface (m^2)	6,00	8,75	11,50	19,50	27,00
Glazing surface (m^2)	9,30/10,40	10,90/12,20	12,40/13,90	15,50/17,40	18,70/21,00
Net weight in kg with a 6(20)6 FE glazing	432	542	575	753	921
Pannels' Number	4	4	5	6	6
Dimension L x H (mm)	3160x2350	3660x2350	4160x2350	5160x2350	6160x2350
Rolling radius (mm)	1420	1670	1920	2420	2920

Warranty and maintenance

- Ten-year warranty
- Two year warranty on rollers and hardware
- Glass cleaning is done safely when the pannels are in the interior position. Recommended cleaning with soapy water once a year.
- Maintenance provided by LUMICENE teams or any joiner.

Appendices

1. Diameters, ITICS, ETICS
2. Cross-Section
3. Detail section and sealing
4. Lower rail section
5. Balcony / loggia section
6. Precast concrete beam section
7. Layout plan and precast concrete beam drawing
8. Incorporing examples
9. Construction sites

Available documentation

- Sealing test
- Soundproofing test

For all technical information :

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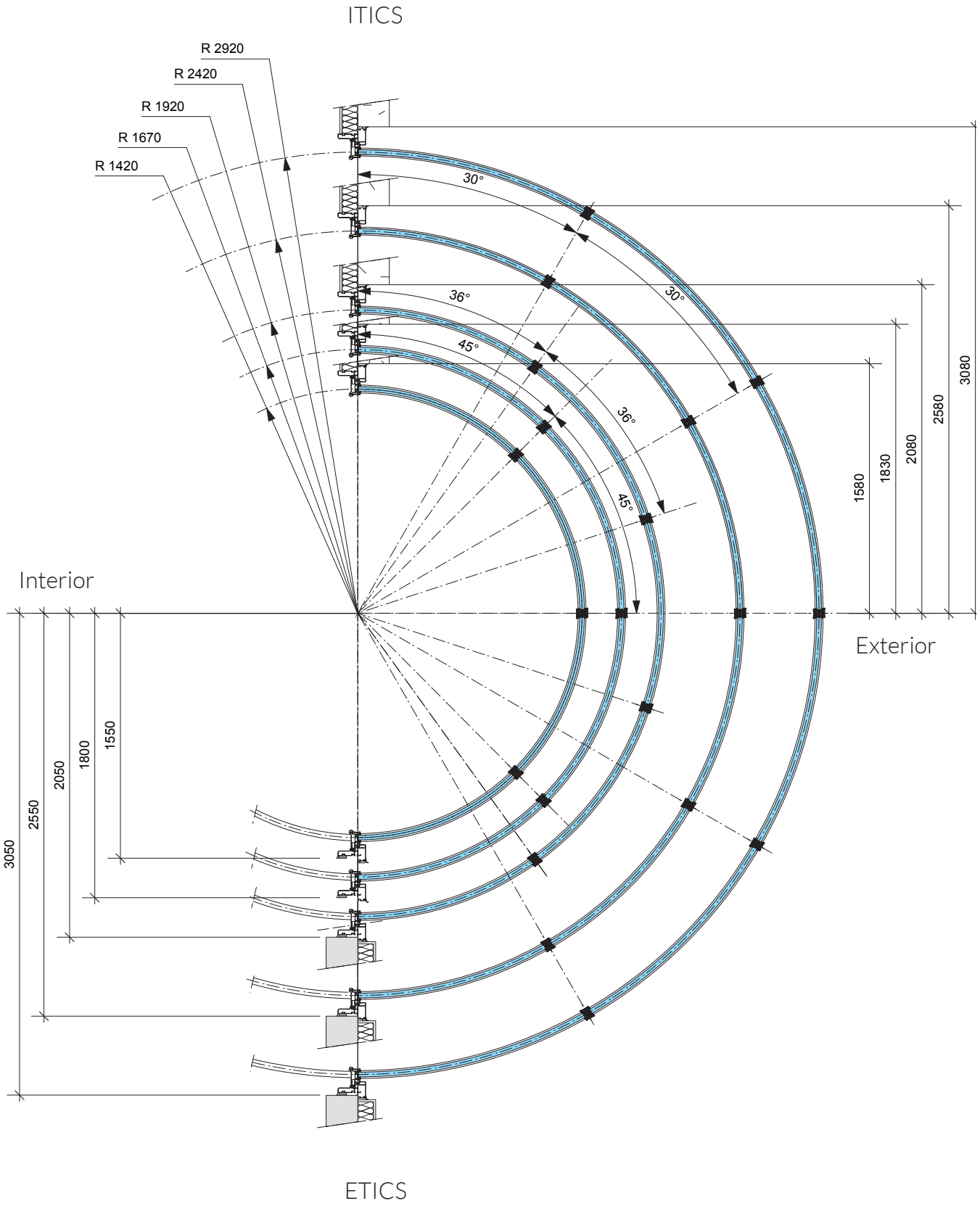
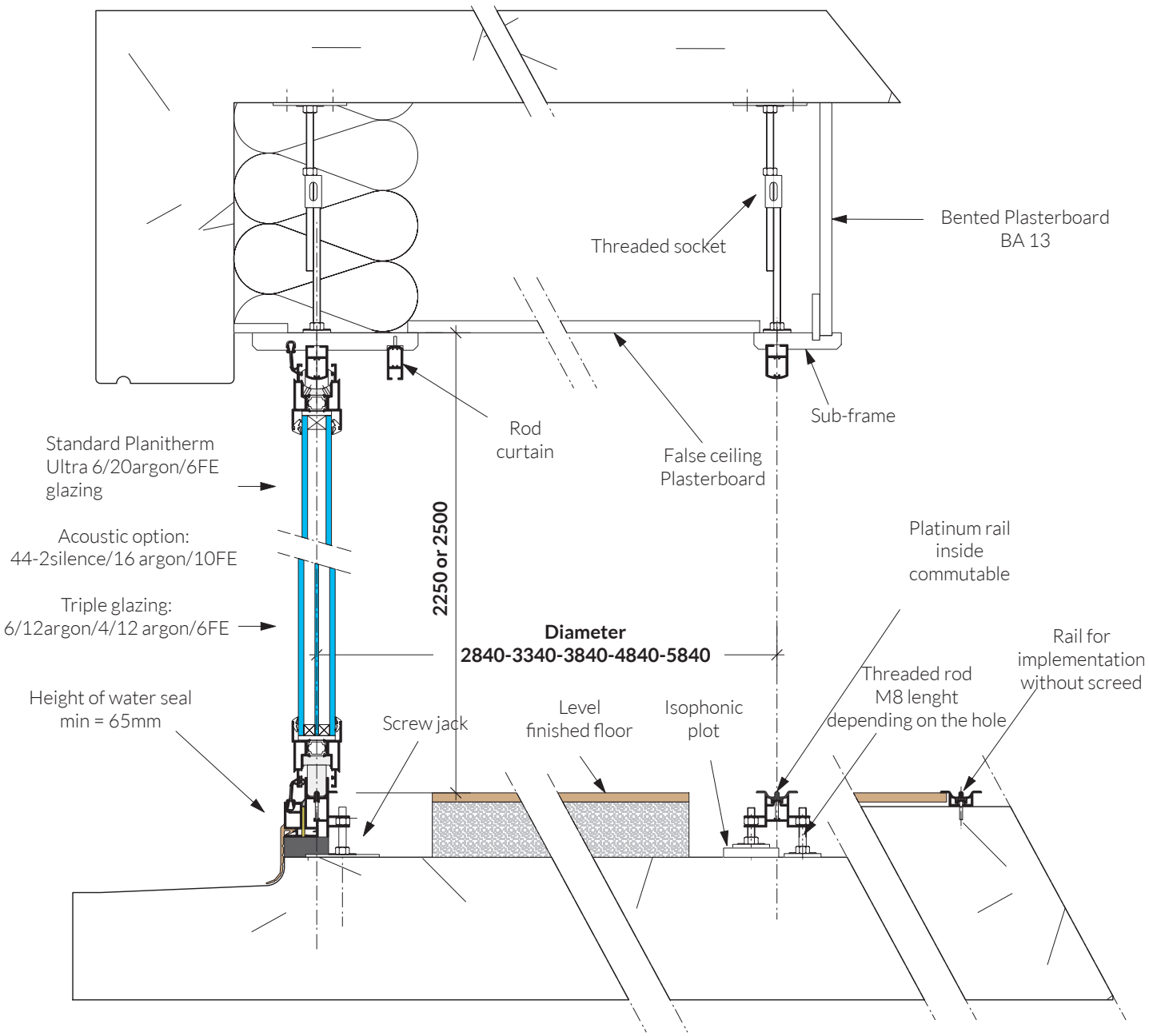
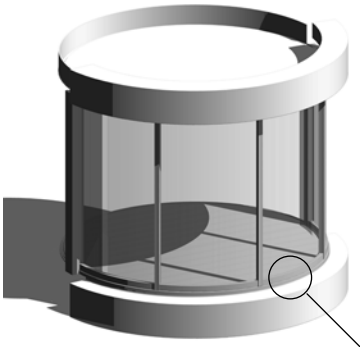
APPENDICE 1 - Diameters, ITICS, ETICS

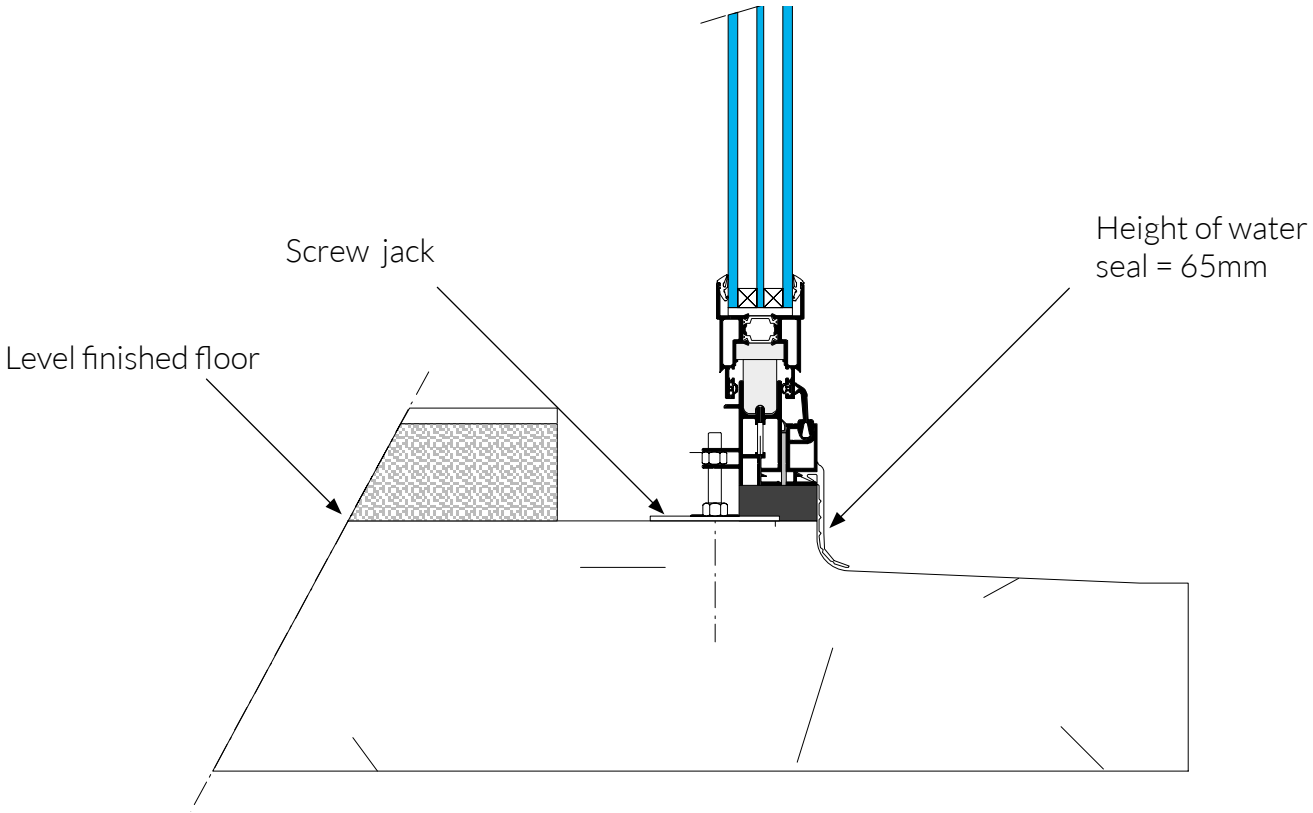


APPENDICE 2 - Cross-section

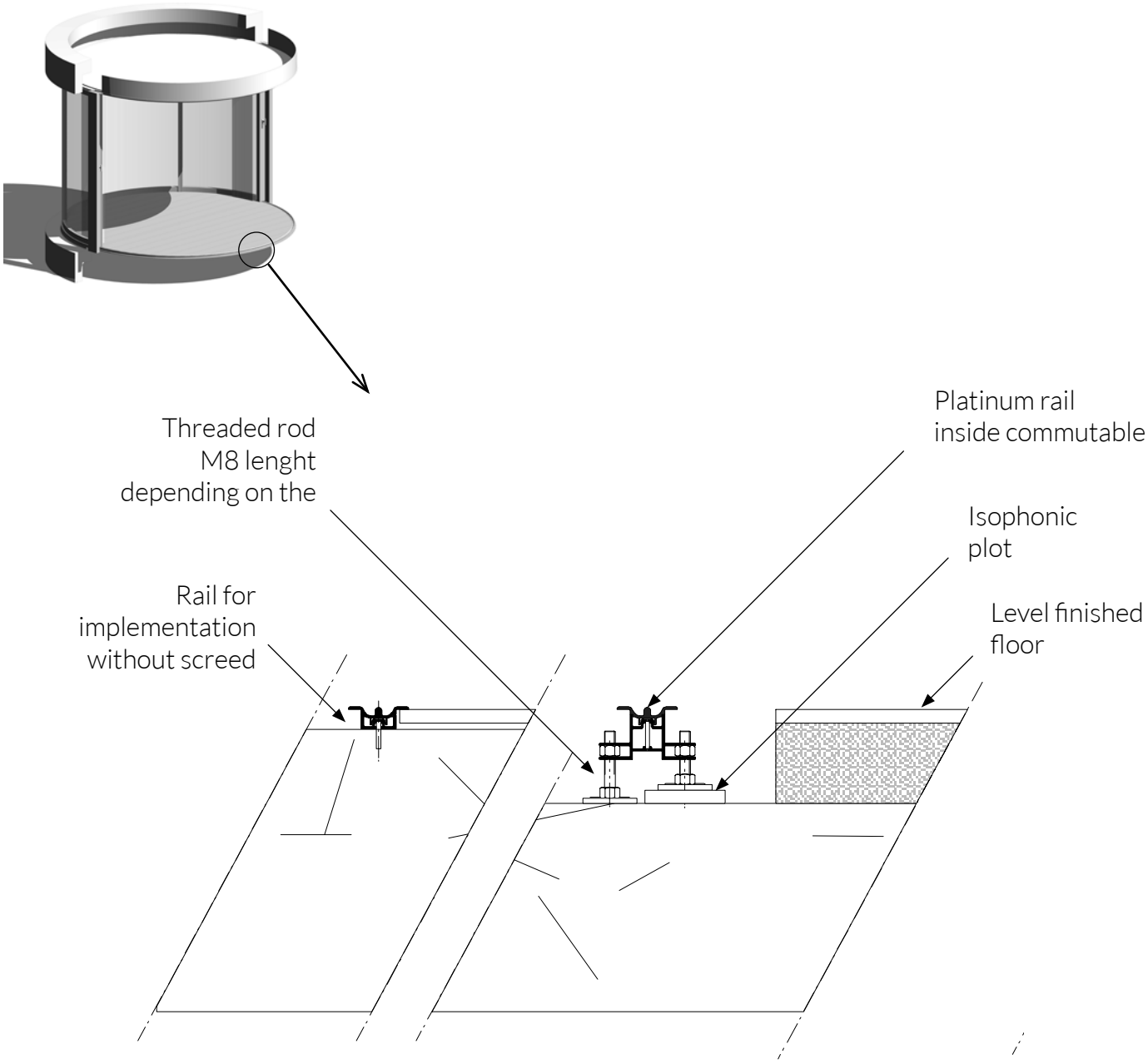


APPENDICE 3 - Exterior low rail

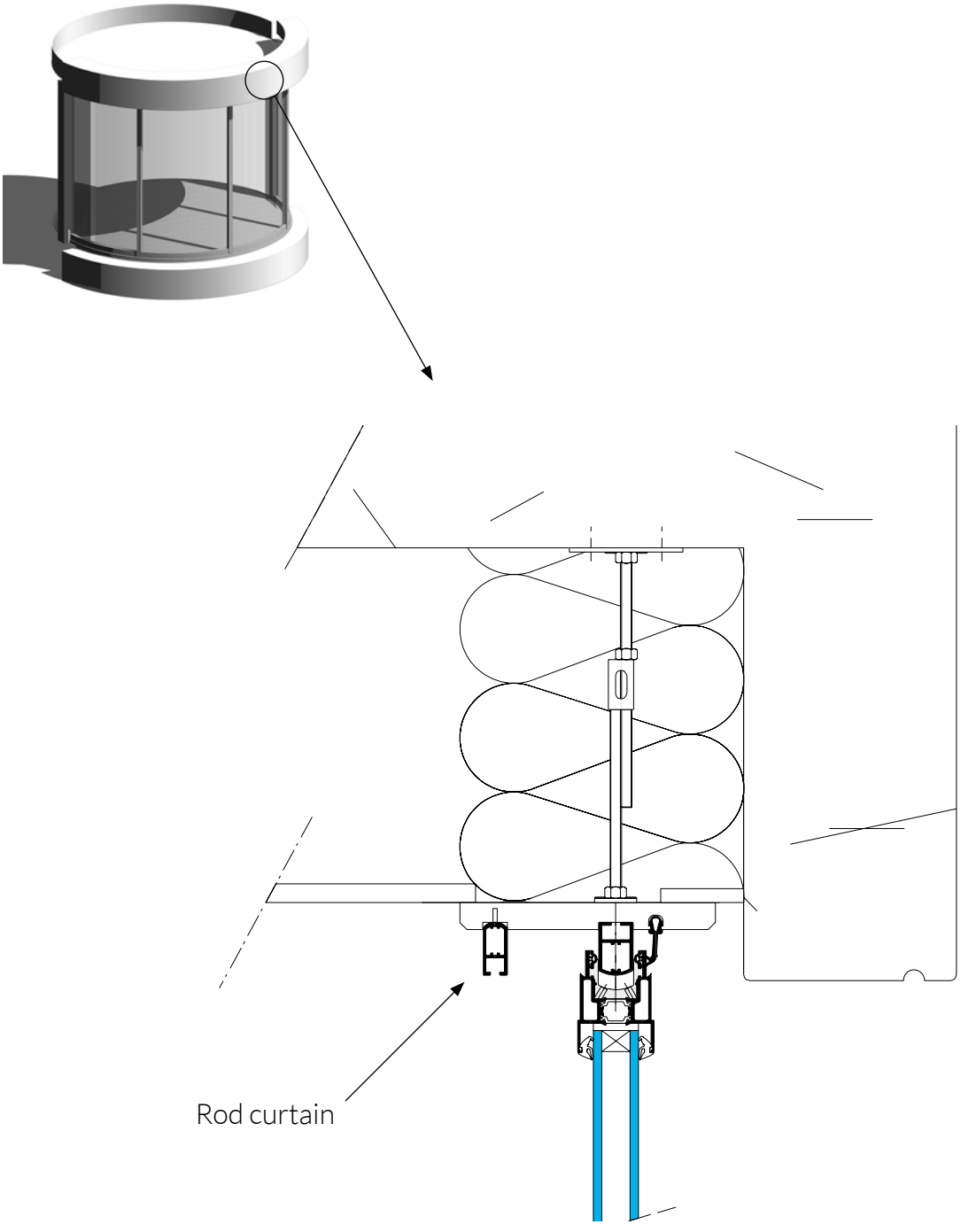




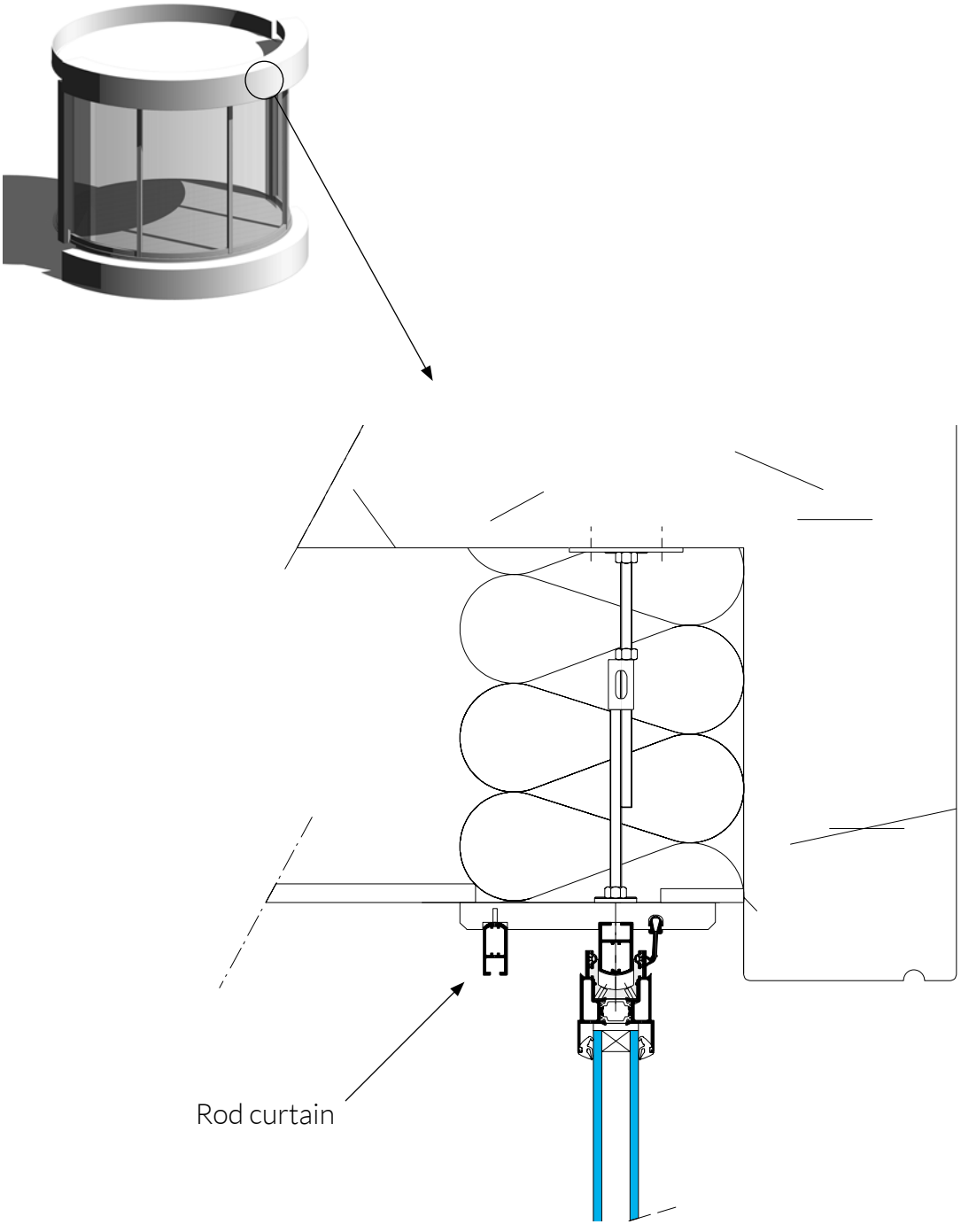
APPENDICE 4 - Interior low rail



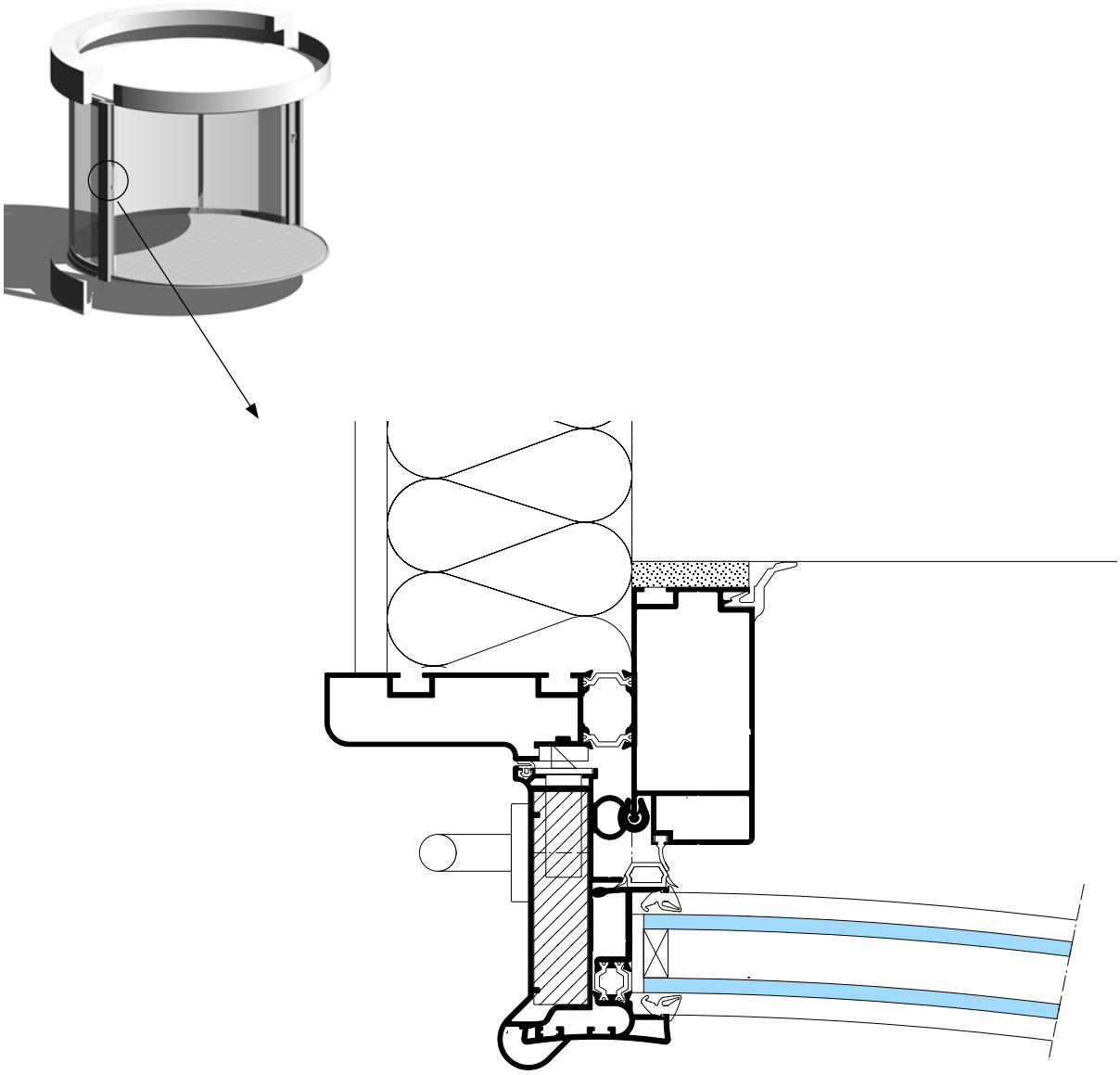
APPENDICE 5 - Upper rail junction



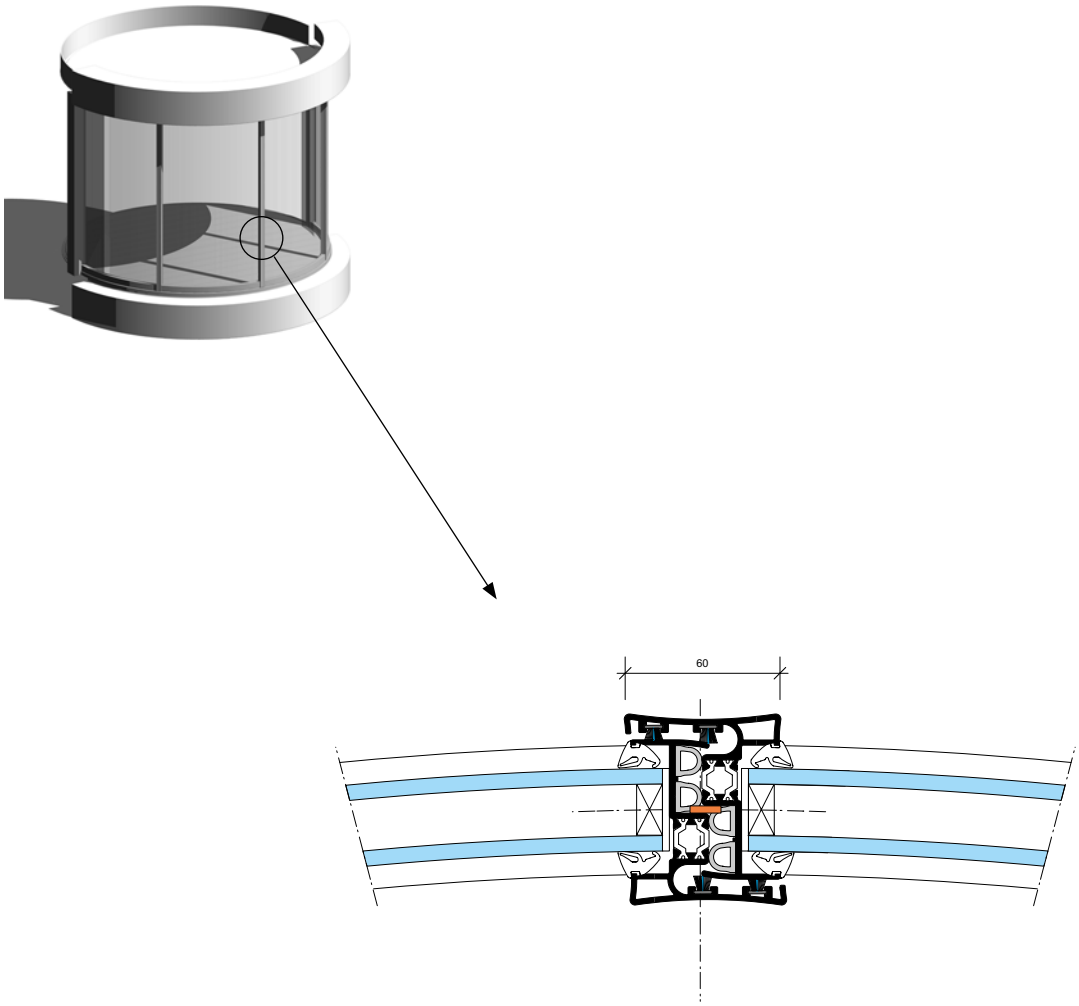
APPENDICE 5 - Upper rail junction



APPENDICE 7 - Window jamb lateral cut



APPENDICE 8 - Vertical profil cut



APPENDICE 9 - Balcony / loggia section

Case 1

Without lintel across LUMICENE (in loggia for example)

Using a 250cm LUMICENE under a 260cm slab

LUMICENE false ceiling in continuity with the entire awning

Case 2

Top finishing in grating on joists or on the floor

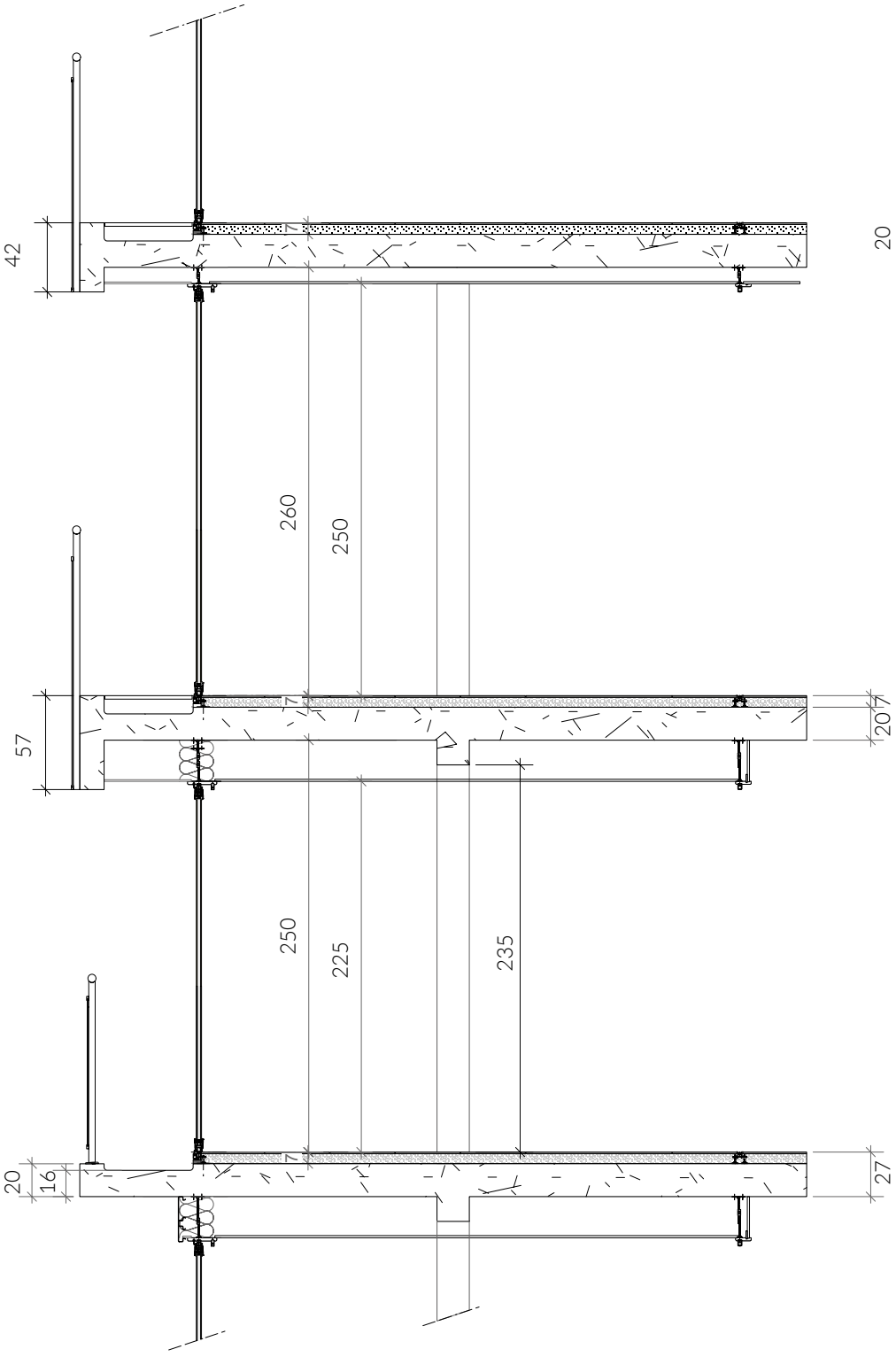
Concrete beam fallout allowing an easy dressing of the external under face of the LUMICENE

Cas 3

A 20cm slab reduced to 16 on the balcony to allow the creation of a sealing support for the LUMICENE external rail .

Balcony inaccessible due to its small size: LUMICENE itself has the balcony function.

Curved aluminum headband to connect the upper rail to the masonry



APPENDICE 10 - Precast concrete beam section

Case 1

The last LUMICENE of a column can be covered by an accessible terrace

Ability to drop 15cm to facilitate accessibility to the upper floor

Case 2

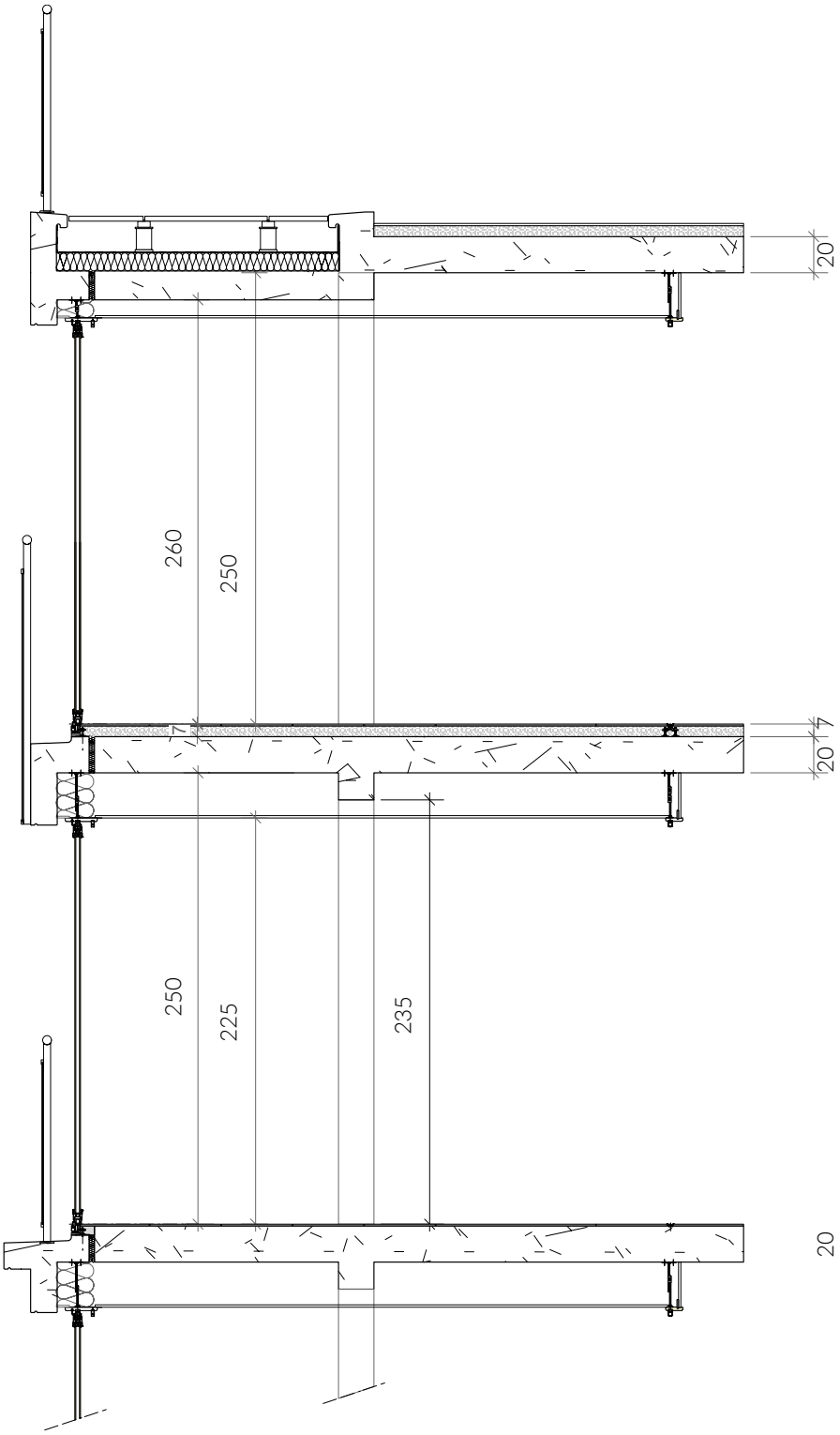
Standard case: pre-cast concrete beam with thermal bridge reducers. Optional breakers.

LUMICENE height 225 cm with false ceiling

Bented headband plasterboard ba13

Case 3

Laying without screed with special inner rail.



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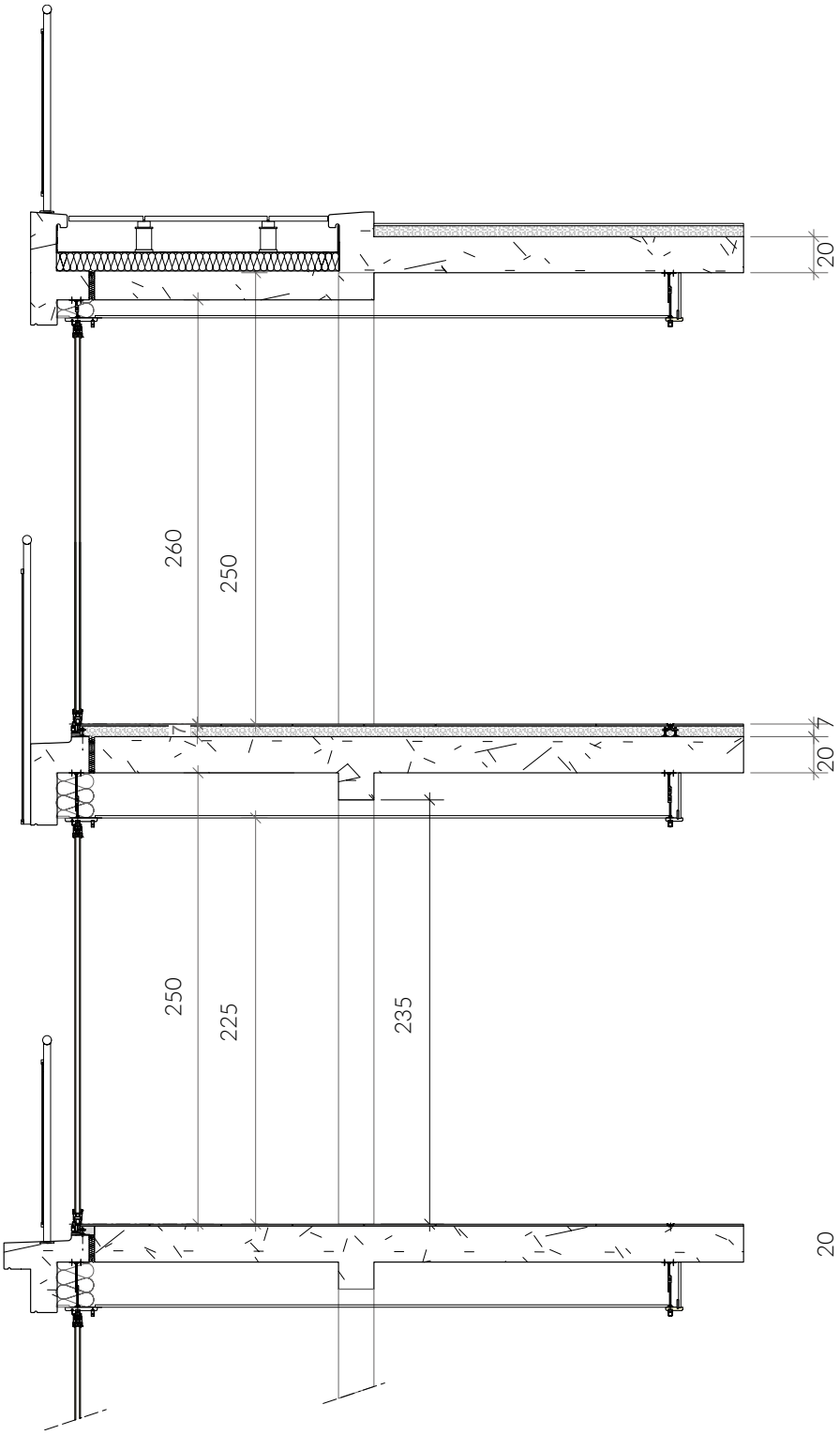
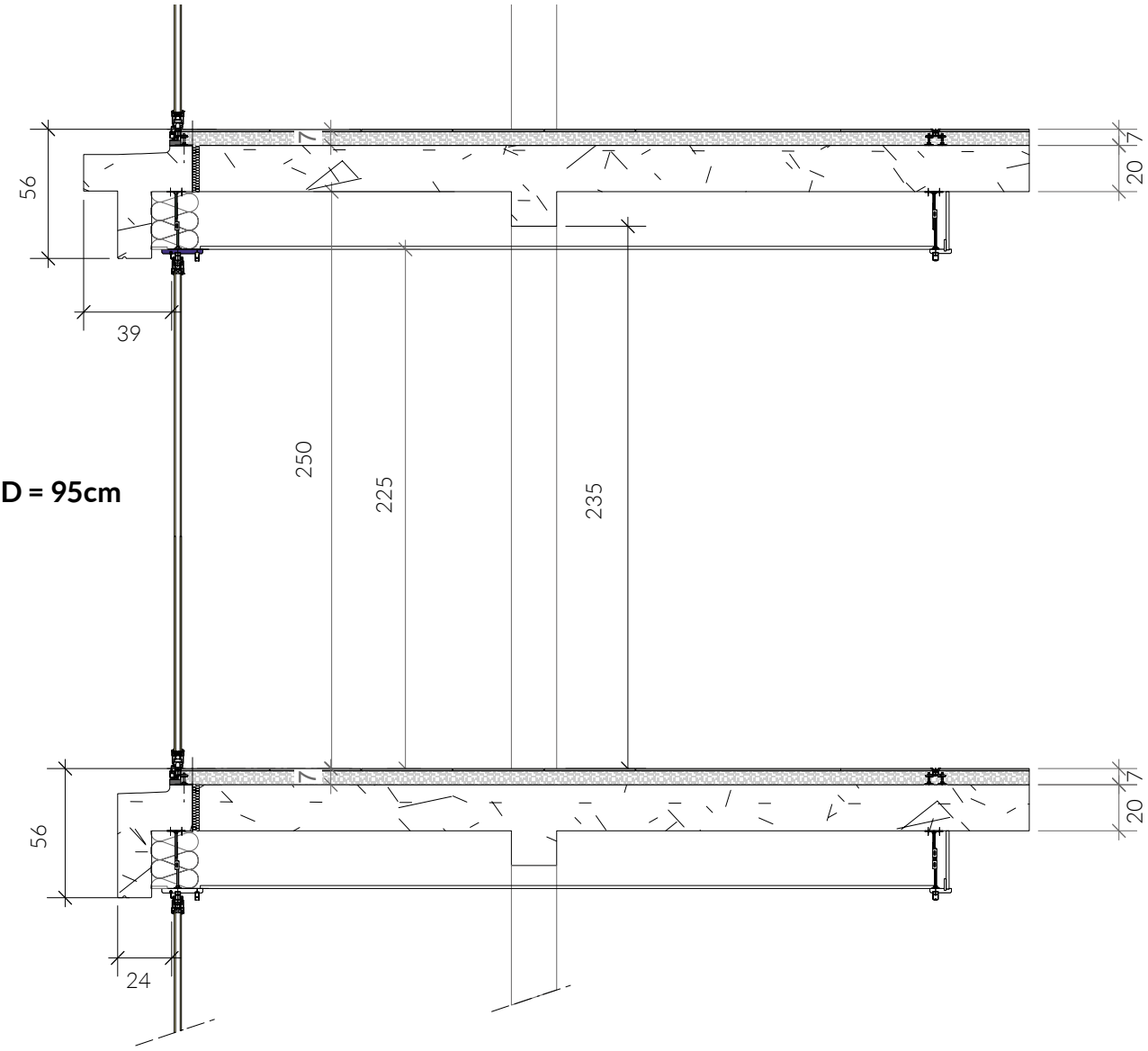


APPENDICE 12 - C+D

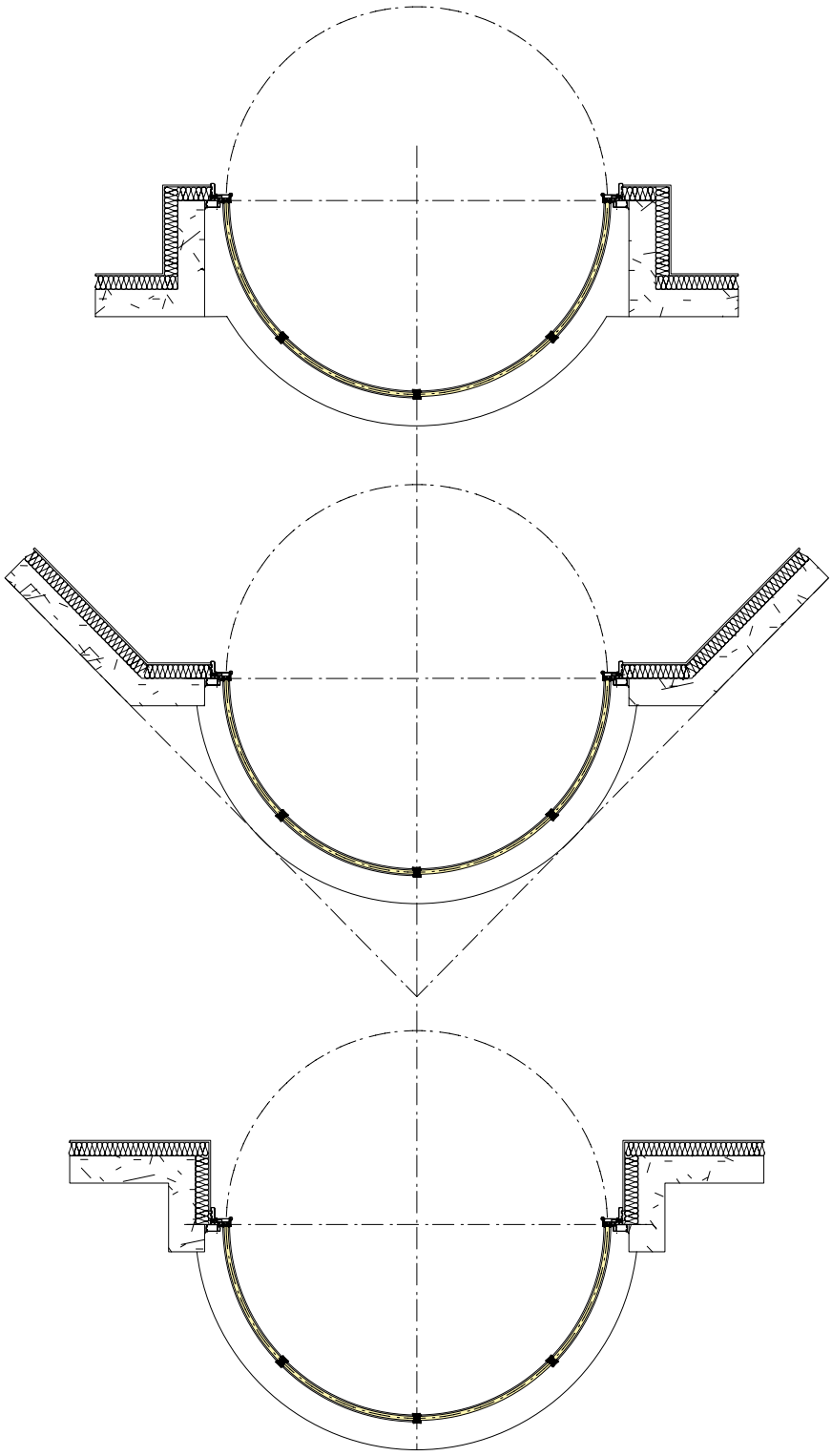
Under a 250 cm ceiling, a 225 cm LUMICENE is used. The fallout of the precasted beam participates in the «C»
Precasted profile participates in «D»



C+D = 95cm

C+D = 80cm

APPENDICE 13- Incorporing examples



APPENDICE 14 - Construction site