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Polar 54
Design Guide

Revision 2 – 01/10/2019

Think partitioning,
think Komfort

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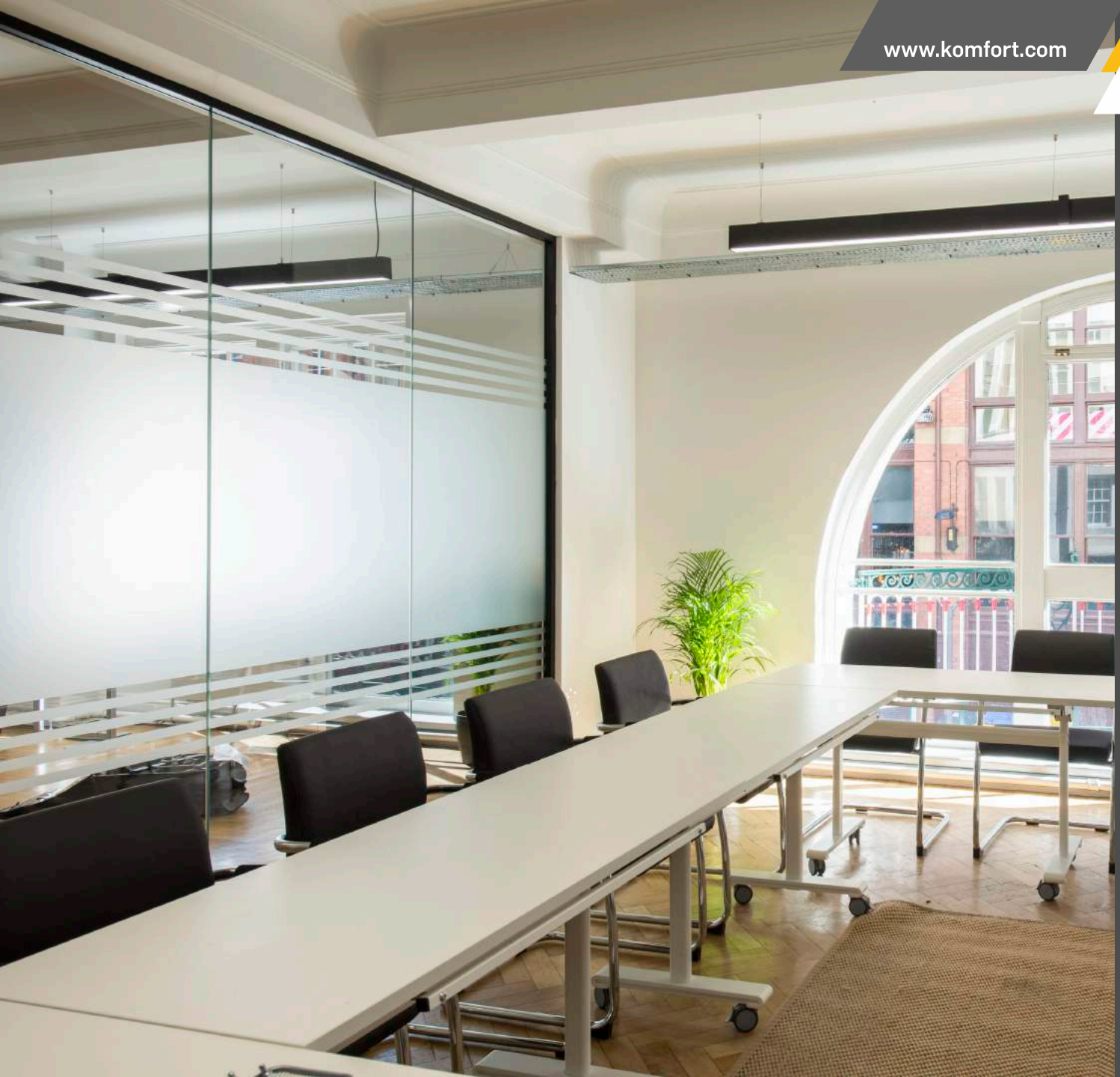

Contents

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At a glance

Dimensions:
Height up to 3000mm

Fire ratings:
N/A

Acoustics:
Up to 47dB (Rw)*

Structure:
Up to Severe Duty

Deflection head:
+/-25mm

Door options:
Timber doors
Single glazed doors
Sonik doors

Glass type options:
10/12mm Toughened
10.8/12.8/14.8mm Acoustic Lam.

Weight:
10mm Toughened = 25kg/m^2
12mm Toughened = 30kg/m^2
10.8mm Ac. Lam. = 27kg/m^2
12.8mm Ac. Lam. = 32kg/m^2
14.8mm Ac. Lam. = 37kg/m^2

- ✕ **Blinds**
- ✓ **Manifestations**
- ✓ **Graphics**
- ✓ **SwitchGlass**
- ✓ **Kross Glaze**

Paint/finishes

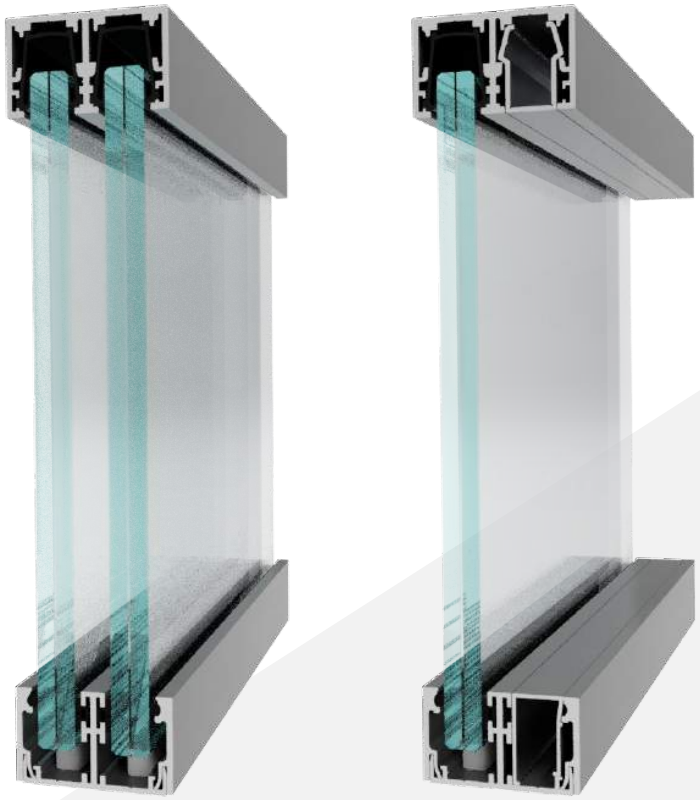
- ✓ **Polyester powder coat**
- ✕ **Satin anodised aluminium**
- ✓ **Special anodised finish**

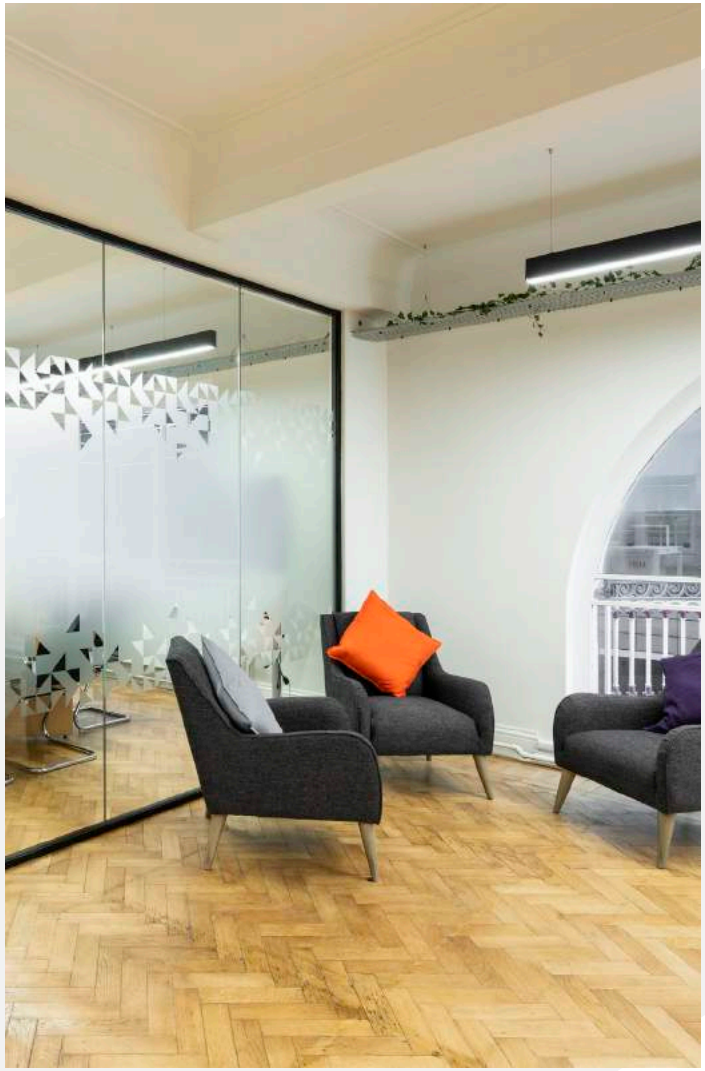
*Dependent on system configuration / specification

System Outline

Polar 54 is a design response to the architectural trend for narrow gauge glazed partitioning. This elegant 54mm wide system is available as double or offset single glazed with a range of glass configurations available. The frameless bubble jointed glazing and minimal trackwork provides contemporary aesthetics in any working environment.

This system is compatible with Komfort's Sonik, single glazed and timber door options.





System Performance

Acoustic Performance

Airborne sound insulation testing of glazed partitioning in accordance with BS EN ISO 10140-1:2016 and BS EN ISO 10140-2:2010.

Double Glazed Screens		
Glass Configuration	dB Rating	Certificate No.
Polar 54 using 12mm and 10mm Toughened with Bubble Joint	Up to 39dB (Rw)	PO S57
Polar 54 using 12mm Toughened and 10.8mm Acoustic Laminated with Bubble Joint	Up to 40dB (Rw)	PO S58
Polar 54 using 12.8mm Acoustic Laminated and 10mm Toughened with Bubble Joint	Up to 40dB (Rw)	PO S60
Polar 54 using 12.8mm Acoustic Laminated and 12mm Toughened with Bubble Joint	Up to 41dB (Rw)	PO S61
Polar 54 using 12.8mm and 10.8mm Acoustic Laminated with Bubble Joint	Up to 41dB (Rw)	PO S59
Polar 54 using 12.8mm and 12.8mm Acoustic Laminated with Bubble Joint	Up to 45dB (Rw)	PO S62
Polar 54 using 14.8mm and 10.8mm Acoustic Laminated with Bubble Joint	Up to 44dB (Rw)	PO S56
Polar 54 using 14.8mm and 12.8mm Acoustic Laminated with Bubble Joint	Up to 45dB (Rw)	PO S54
Polar 54 using 14.8mm and 10.8mm Acoustic Laminated with Applied Kross Glaze Bars	Up to 46dB (Rw)	PO S67
Polar 54 using 14.8mm and 12.8mm Acoustic Laminated with Applied Kross Glaze Bars	Up to 47dB (Rw)	PO S68

It should be noted that in an on-site acoustic test, a partition or doorset can result in a 3dB to 8dB lesser performance than under laboratory conditions. This can be further affected by ambient noise levels on the receiving side of the test sample and by poorly insulated abutments and voids above and below the partition which will result in a 'flanking' path for audible sound.

System Performance

Acoustic Performance

Airborne sound insulation testing of glazed partitioning in accordance with BS EN ISO 10140-1:2016 and BS EN ISO 10140-2:2010.

Offset Single Glazed Screens		
Glass Configuration	dB Rating	Certificate No.
Polar 54 using 10mm Toughened with Bubble Joint	Up to 31dB (Rw)	PO S66
Polar 54 using 12mm Toughened with Bubble Joint	Up to 33dB (Rw)	PO S64
Polar 54 using 10.8mm Acoustic Laminated with Bubble Joint	Up to 38dB (Rw)	PO S65
Polar 54 using 12.8mm Acoustic Laminated with Bubble Joint	Up to 39dB (Rw)	PO S63
Polar 54 using 14.8mm Acoustic Laminated with Bubble Joint	Up to 41dB (Rw)	PO S55

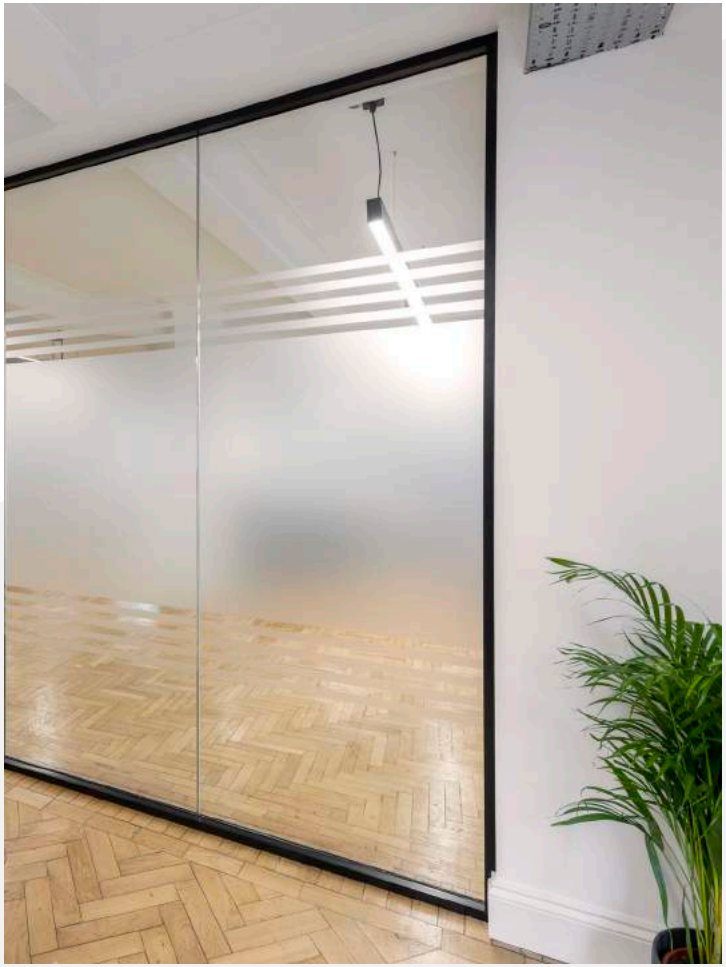
It should be noted that in an on-site acoustic test, a partition or doorset can result in a 3dB to 8dB lesser performance than under laboratory conditions. This can be further affected by ambient noise levels on the receiving side of the test sample and by poorly insulated abutments and voids above and below the partition which will result in a 'flanking' path for audible sound.

System Performance

Structural Performance

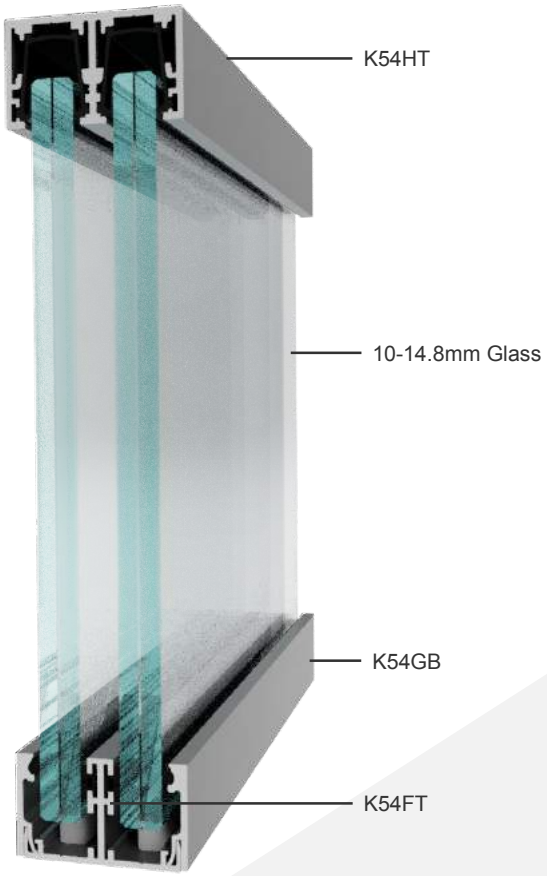
Strength and robustness testing of glazed partitioning in accordance with BS 5234-2:1992 and BS 6180:2011.

Strength & Robustness		
Test Description	Result	Certificate No.
Polar 54 Double Glazed using 12mm Toughened + 12.8mm Acoustic Laminated Glass with Full Height Timber Door	Severe Duty 0.74kN	PO STR15
Polar 54 Offset Single Glazed using 12mm Toughened Glass with Full Height Timber Door	Severe Duty 0.74kN	PO STR16

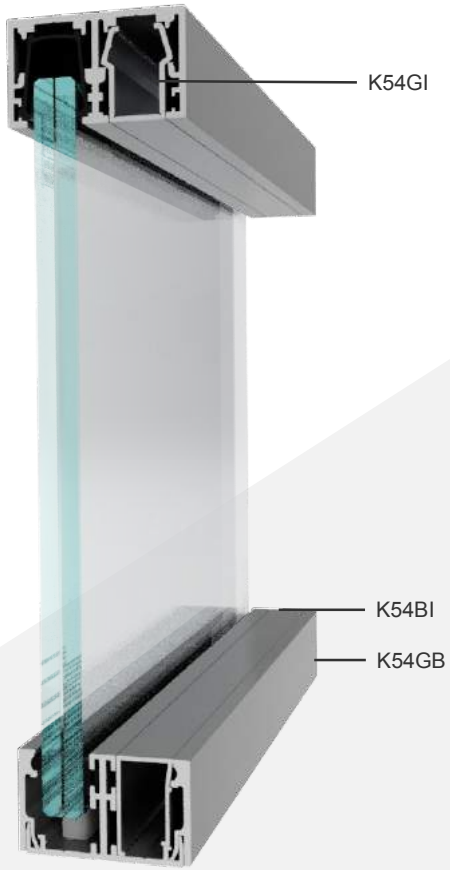


System Specification

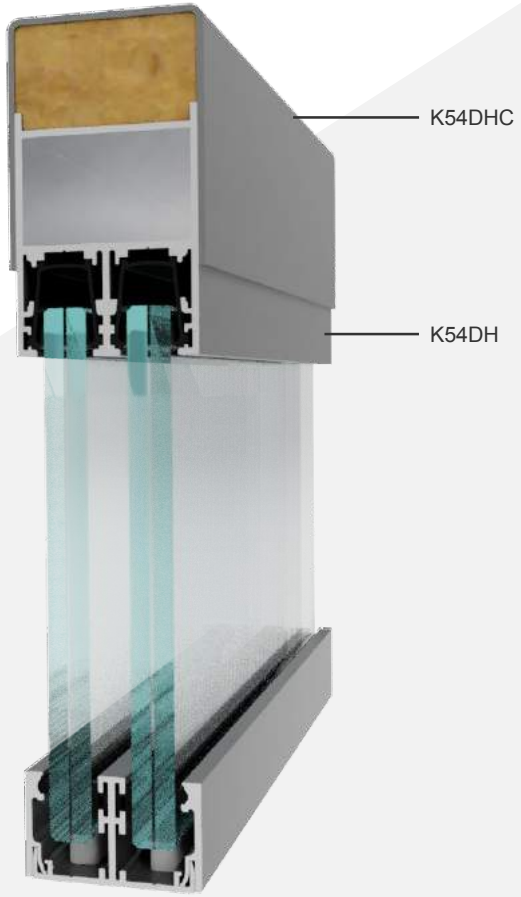
Standard details of double and offset single glazed head, base and +/-25mm deflection components.



Standard Double Glazed
Head and Base Detail



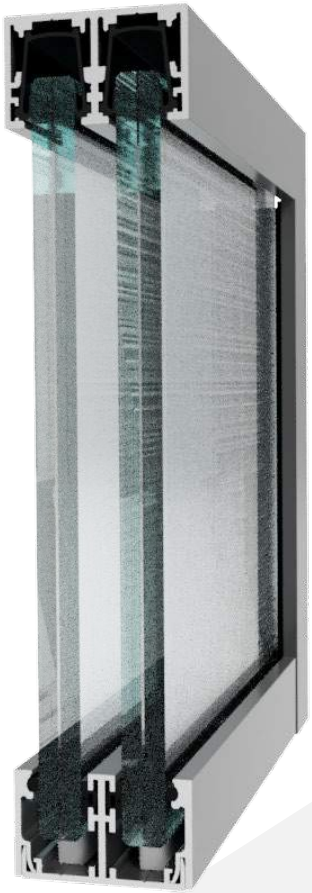
Standard Offset Single Glazed
Head and Base Detail



Standard +/-25mm Deflection
Head and Base Detail

System Specification

Standard details of double and offset single glazed into wall abutments and tape and joint adaptor into 100mm drywall.



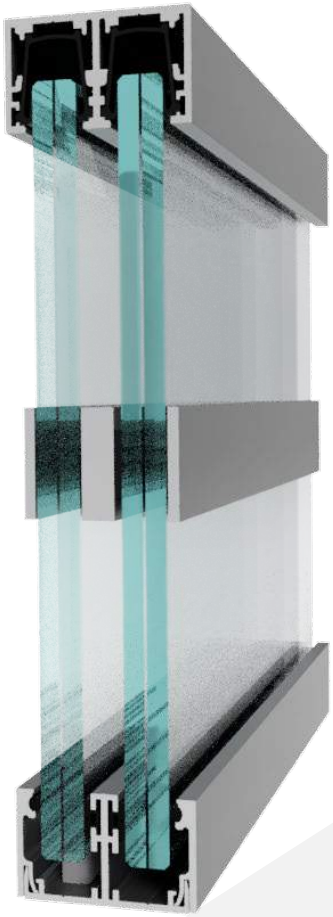
Double Glazed into K54HT
as Wall Abutment

Offset Single Glazed into
K54HT as Wall Abutment

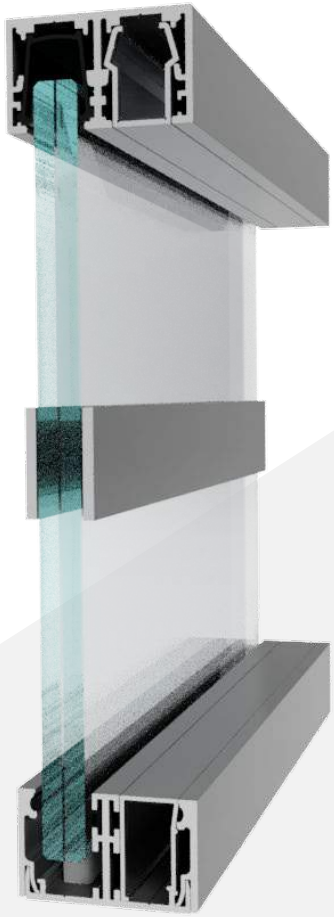
Tape & Joint Adaptor into
100mm Drywall

System Specification

Standard details of double and offset single glazed Kross Glaze applied bars and full height door frame.



Double Glazed Kross Glaze
Applied Bars Detail

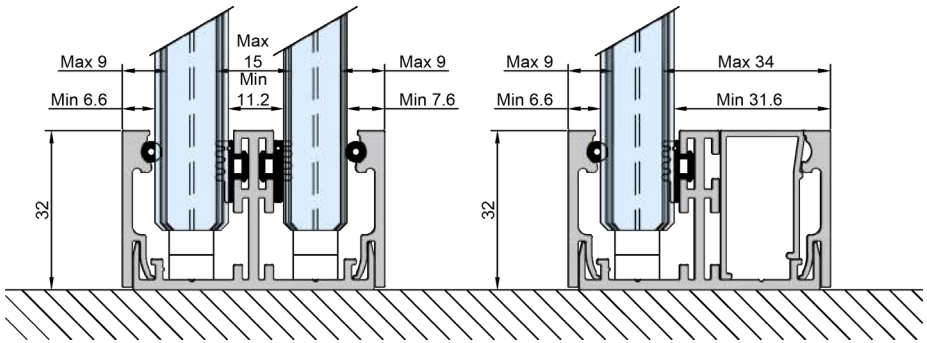


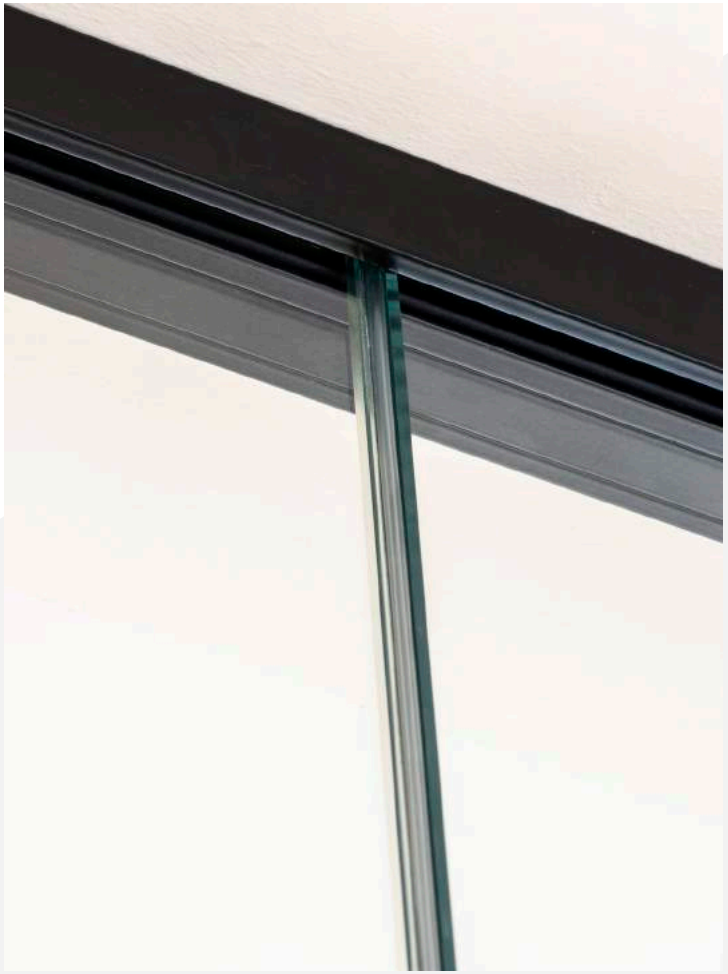
Offset Single Glazed Kross Glaze
Applied Bars Detail

Full Height Door Frame Detail

System Specification

The system can accommodate 10-14.8mm glass, the diagram below shows the typical dimensions for glazing configurations.



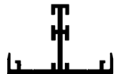


Aluminium components for the screen and door will be powder coated, our standard colour options are shown below. All special colour options can be manufactured to any RAL or BS colour code, please ask for availability.

RAL 9010	BS 00A05	RAL 9006	RAL 9005
Velocity White	Velocity Grey	Velocity Silver	Velocity Black

If a specialist finish is required on the aluminium please contact your local project specification manager or our technical department

Component Identification

ALUMINIUM EXTRUSIONS					
CODE	I.D	DESCRIPTION	CODE	I.D	DESCRIPTION
K54HT		Head Track	K54FT		Floor Track
K54DF		Door Frame	K54GB		32mm Glazing Bead
K54GI		Glazing Infill	K54BI		Base Infill
K54DH		Deflection Head	K54TJ100		100mm Tape & Joint Adaptor Post
K54KGB		1-1/4” x 3/8” Kross Glaze Bar	109		32mm x 3mm Flat

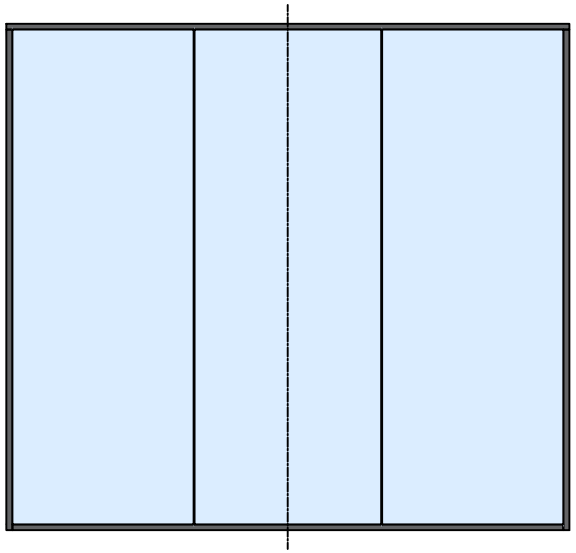
PLASTIC EXTRUSIONS					
CODE	I.D	DESCRIPTION	CODE	I.D	DESCRIPTION
SJ20		Glazing Channel Gasket for 10-14.8mm Glass	K54DS		Door Frame Buffer Seal
K54BG4B		4mm Dia. Hollow Base Gasket	K54BG5B		5mm Dia. Hollow Base Gasket
SJ26.10B		E Gasket for 10-10.8mm Glass	SJ26.12B		E Gasket for 12-12.8mm Glass
SJ34		Bubble Dry Joint			

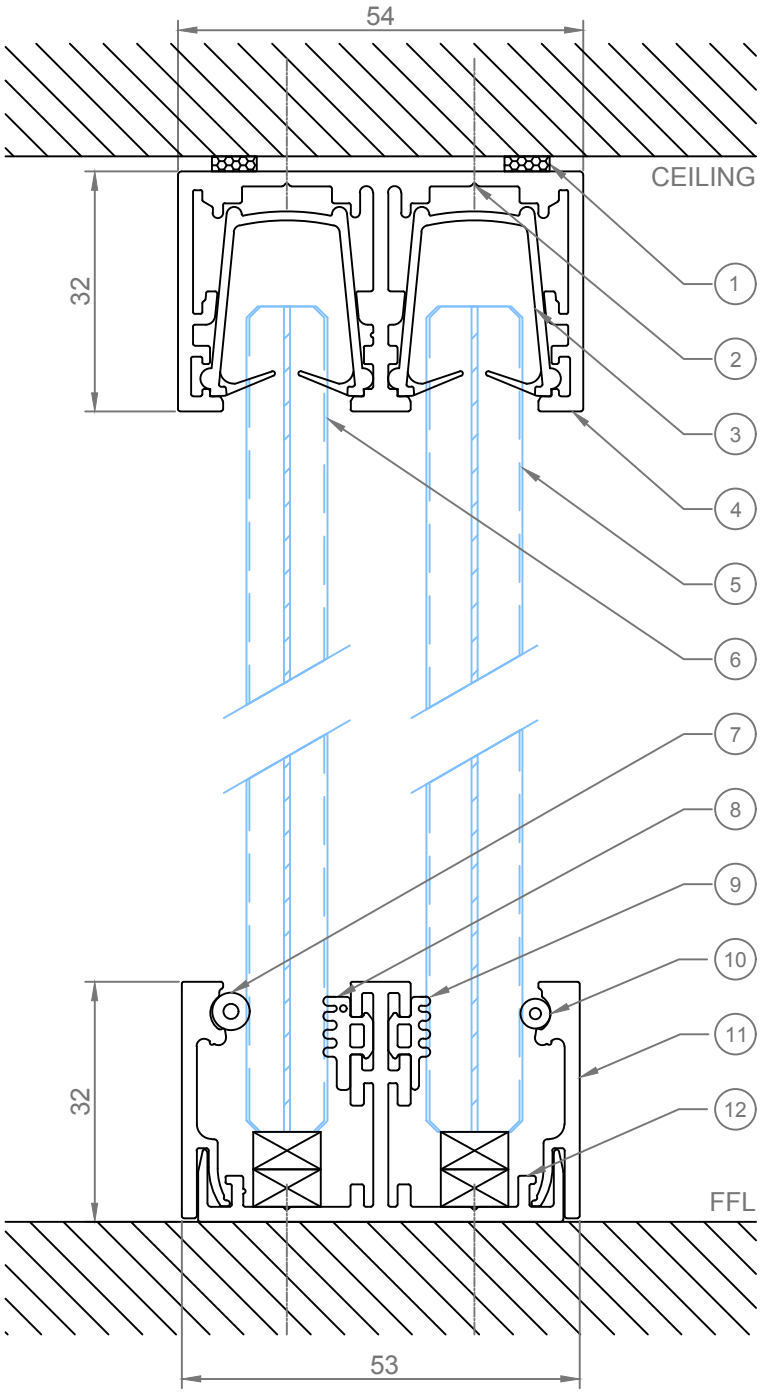
Component Identification

OTHER COMPONENTS, BRACKETS & CLEATS					
CODE	I.D	DESCRIPTION	CODE	I.D	DESCRIPTION
K54SC		Narrow Stealth Cleat	K54DFB		Door Frame Floor Bracket
K54C180		Inline Track Cleat	K54C90		90° Track Cleat
K54C135		135° Track Cleat	K54DHC		Deflection Head Channel

FIXINGS					
CODE	I.D	DESCRIPTION	CODE	I.D	DESCRIPTION
311		38mm x No8 CSK Doorframe Screw	381		M5 x 10lg Taptite Screw CSK
DFHS.75		Self-Drilling Drywall Screw 4.2 x 75mm	DF16042		42mm Drywall Screw

FOAMS					
CODE	I.D	DESCRIPTION	CODE	I.D	DESCRIPTION
174		6mm x 1mm Foam for 14.8mm Glass	175		6mm x 2mm Foam for 14.8mm Glass
342		12mm x 6mm Foam Rubber			





Maximum Glazed Module Possible		
Unit	Height	Width
Module Size	3000mm	1200mm
Glass Size	2974mm	1196mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	SJ20
4	K54HT
5	12-12.8mm (CFT or A/Lam) GLASS
6	10-10.8mm (CFT or A/Lam) GLASS
7	K54BG5B (FOR 10-10.8mm GLASS)
8	SJ26.10B (FOR 10-10.8mm GLASS)
9	SJ26.12B (FOR 12-12.8mm GLASS)
10	K54BG4B (FOR 12-12.8mm GLASS)
11	K54GB
12	K54FT

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Vertical Screen

0 min Integrity
0 min Insulation

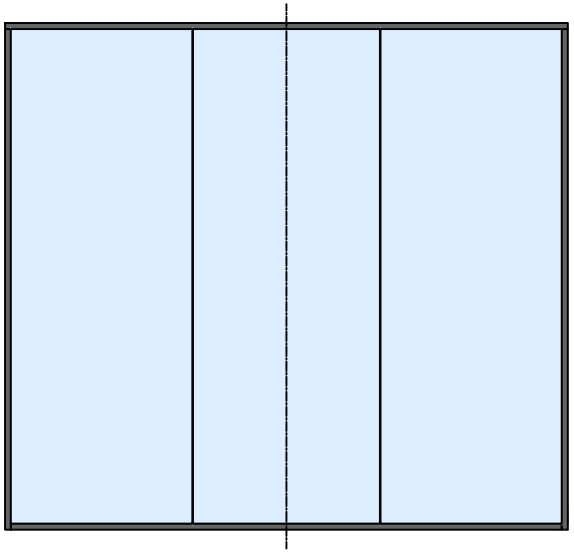
+/- 0 mm
Deflection

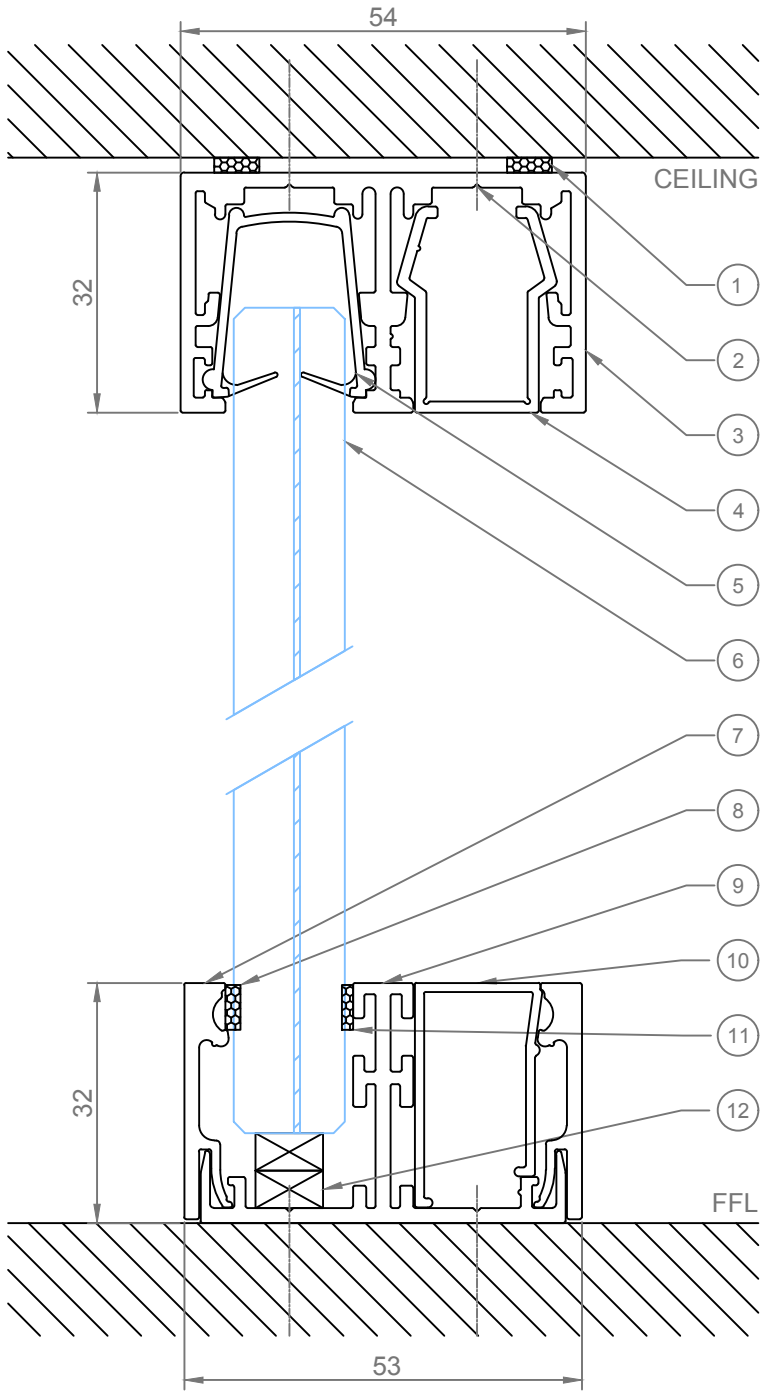
DRAWING NO: K54-VS-01

DATE: 10/04/19

SCALE: 1:1

ISSUE NO: 1





Maximum Glazed Module Possible		
Unit	Height	Width
Module Size	3000mm	1200mm
Glass Size	2974mm	1196mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	K54GI
5	SJ20
6	14.8mm (A/Lam) GLASS
7	K54GB
8	175
9	K54FT
10	K54BI
11	174
12	PSUN PACKERS

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Vertical Screen

0 min Integrity
0 min Insulation

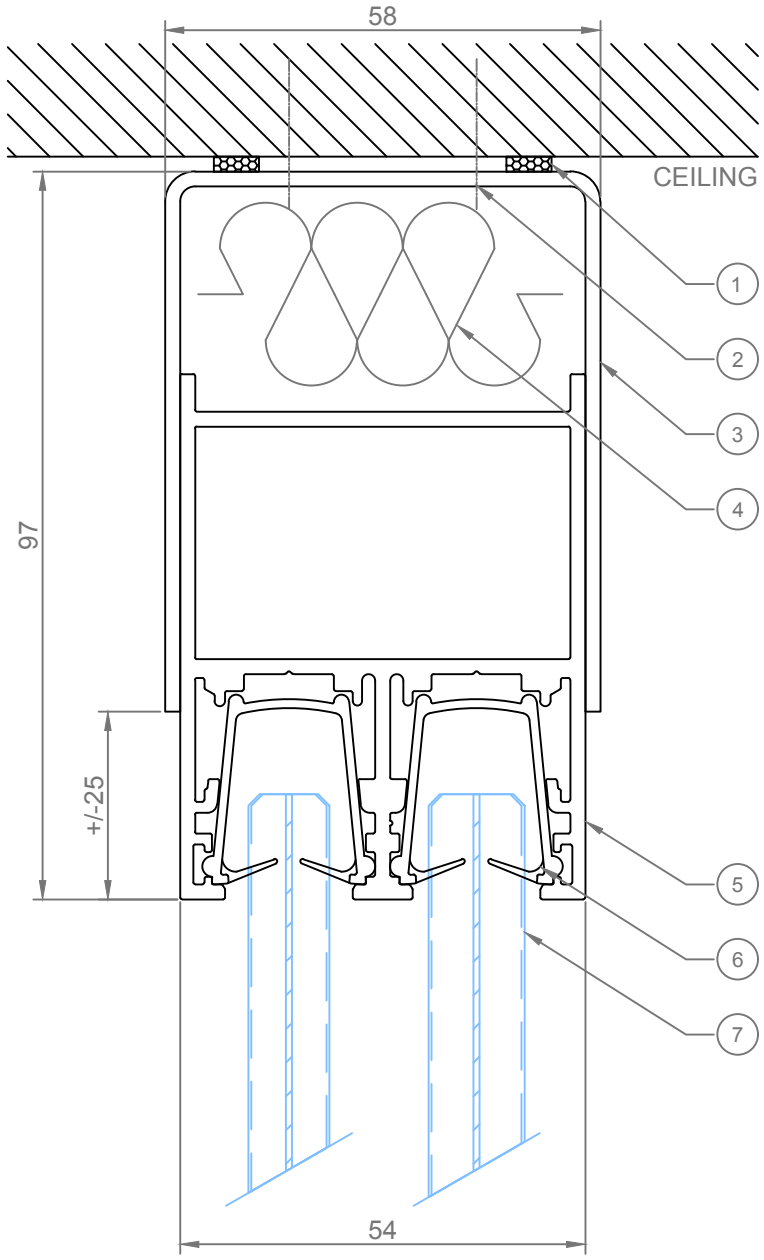
+/- 0 mm
Deflection

DRAWING NO: K54-VS-02

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2



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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54DHC
4	881S50
5	K54DH
6	SJ20
7	10-14.8mm (CFT or A/Lam) GLASS

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Deflection Head

0 min Integrity
0 min Insulation

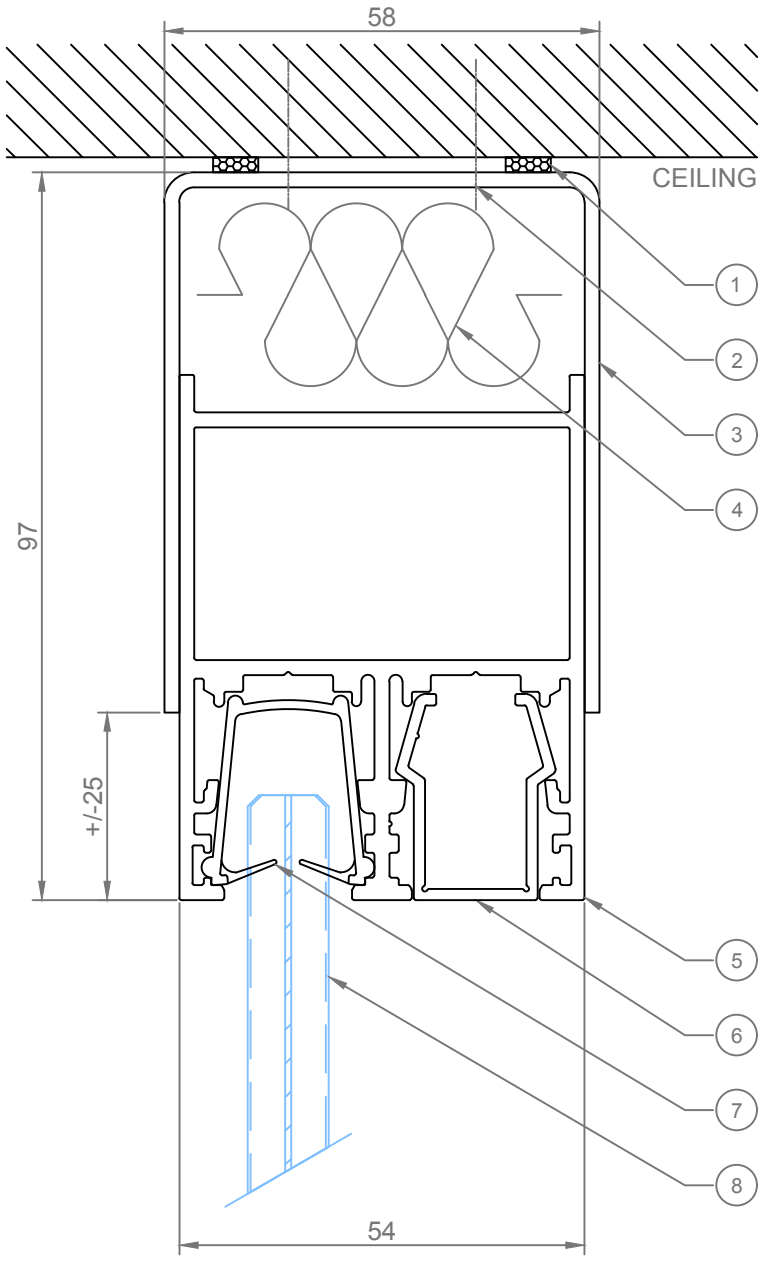
+/-25 mm
Deflection

DRAWING NO: K54-VS-03

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2



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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54DHC
4	881S50
5	K54DH
6	K54GI
7	SJ20
8	10-14.8mm (CFT or A/Lam) GLASS

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Deflection Head

0 min Integrity
0 min Insulation

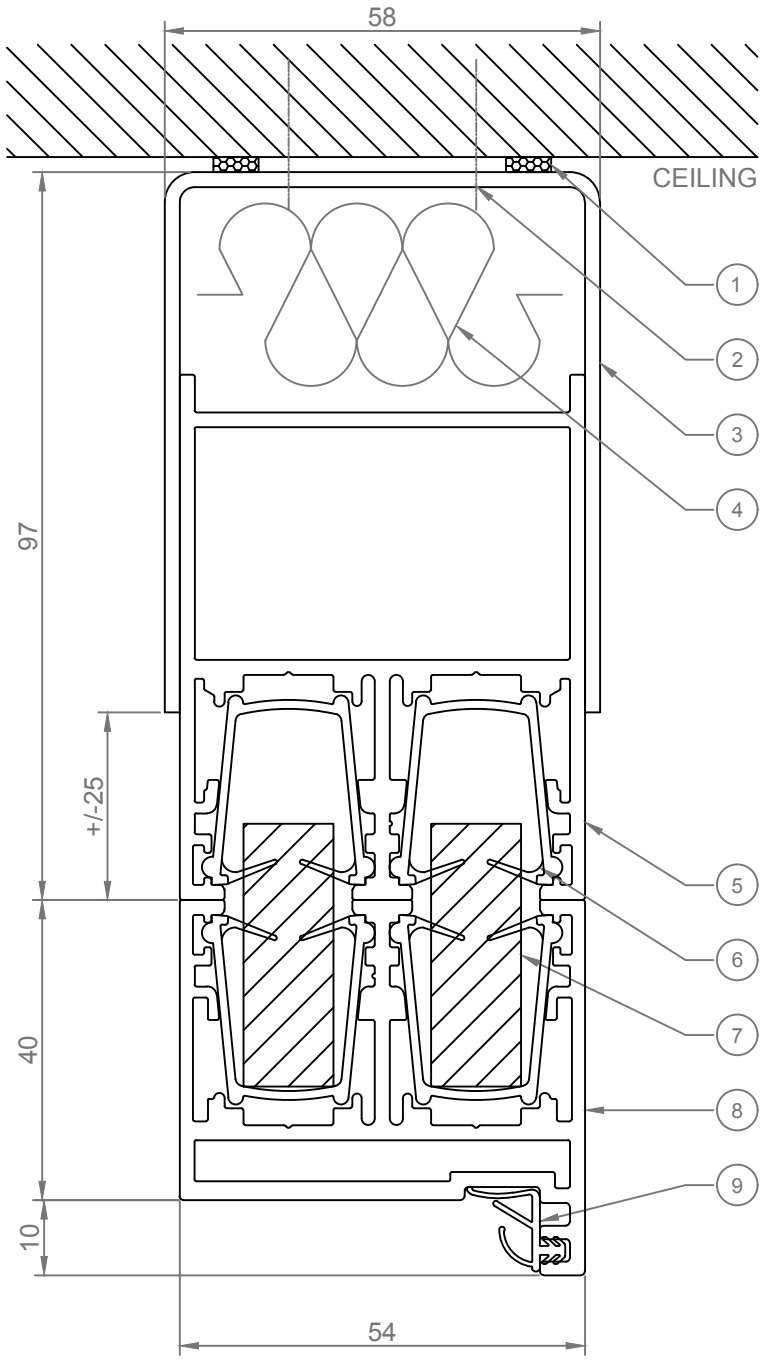
+/-25 mm
Deflection

DRAWING NO: K54-VS-04

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2



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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54DHC
4	881S50
5	K54DH
6	SJ20
7	SJ69
8	K54DF
9	K54DS

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Deflection Head

0 min Integrity
0 min Insulation

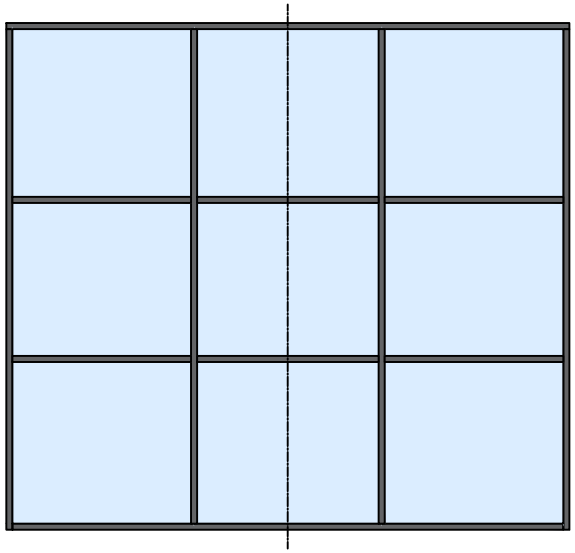
+/-25 mm
Deflection

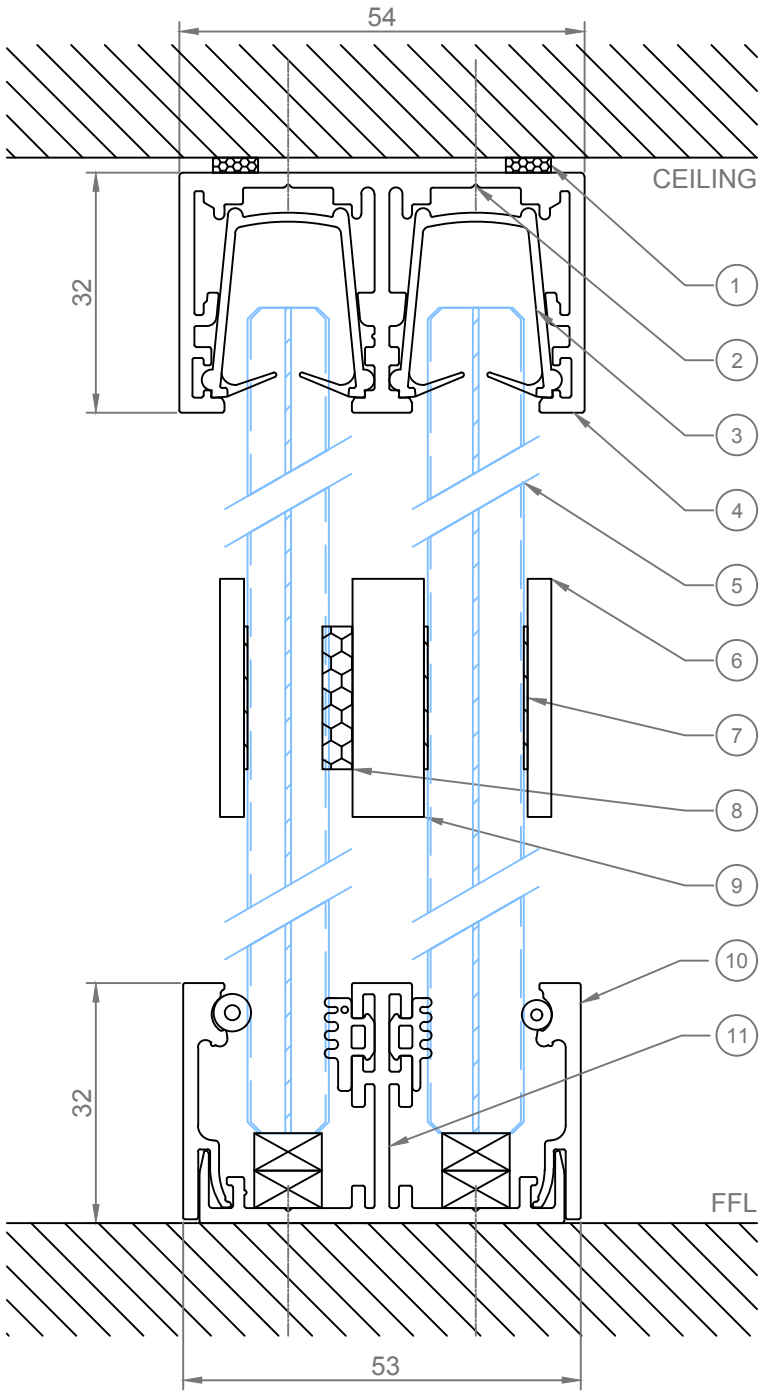
DRAWING NO: K54-VS-05

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2





Maximum Glazed Module Possible		
Unit	Height	Width
Module Size	3000mm	1200mm
Glass Size	2974mm	1196mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	SJ20
4	K54HT
5	10-14.8mm (CFT or A/Lam) GLASS
6	109
7	TAPE19.1C
8	K54KGF
9	K54KGB
10	K54GB
11	K54FT

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Vertical Kross Glaze

0 min Integrity
0 min Insulation

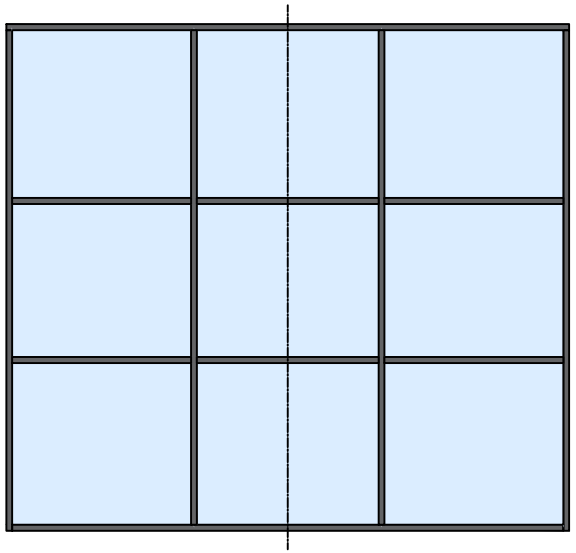
0 mm
Deflection

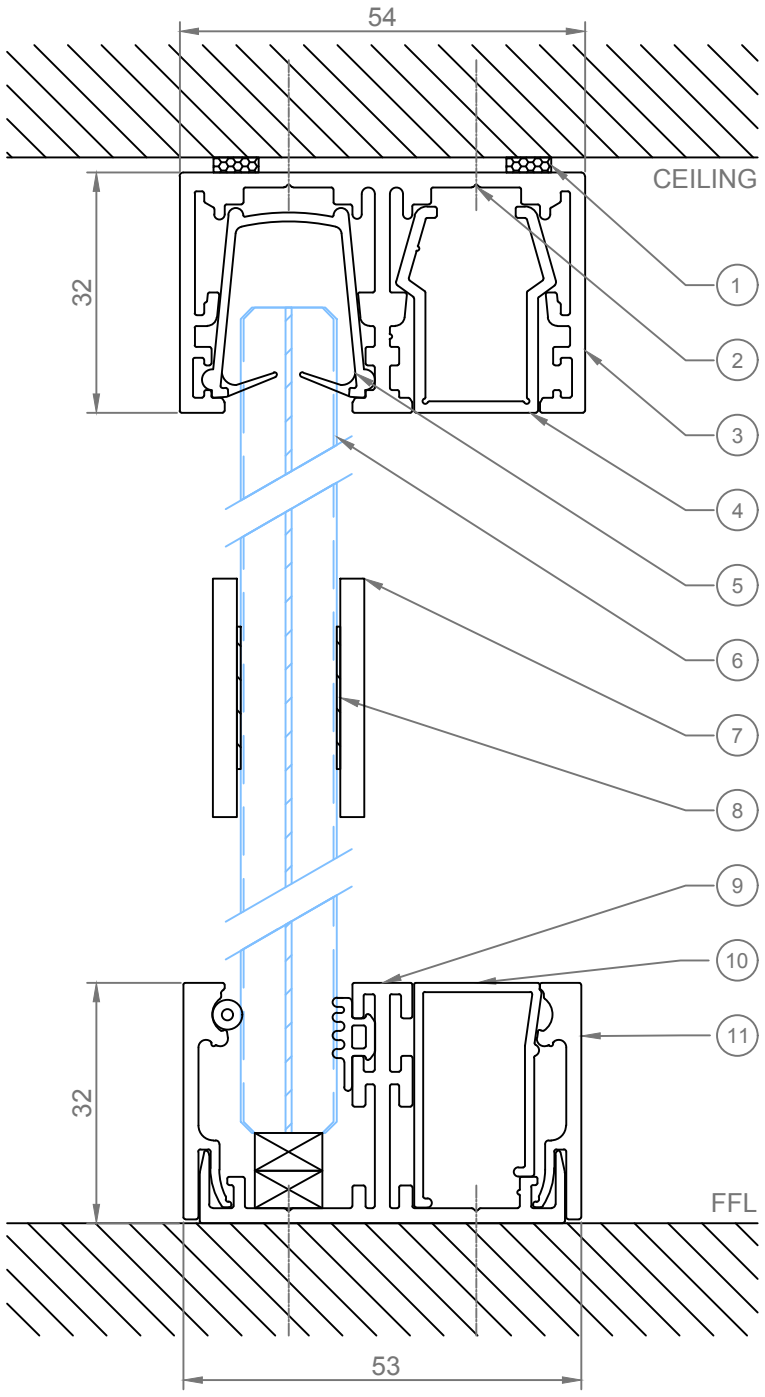
DRAWING NO: K54-VS-06

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 1





Maximum Glazed Module Possible		
Unit	Height	Width
Module Size	3000mm	1200mm
Glass Size	2974mm	1196mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	K54GI
5	SJ20
6	10-14.8mm (CFT or A/Lam) GLASS
7	109
8	TAPE19.1C
9	K54FT
10	K54BI
11	K54GB

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Vertical Kross Glaze

0 min Integrity
0 min Insulation

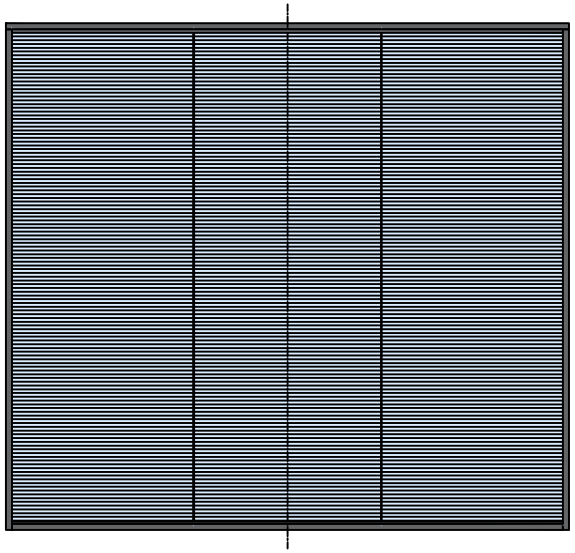
+/- 0 mm
Deflection

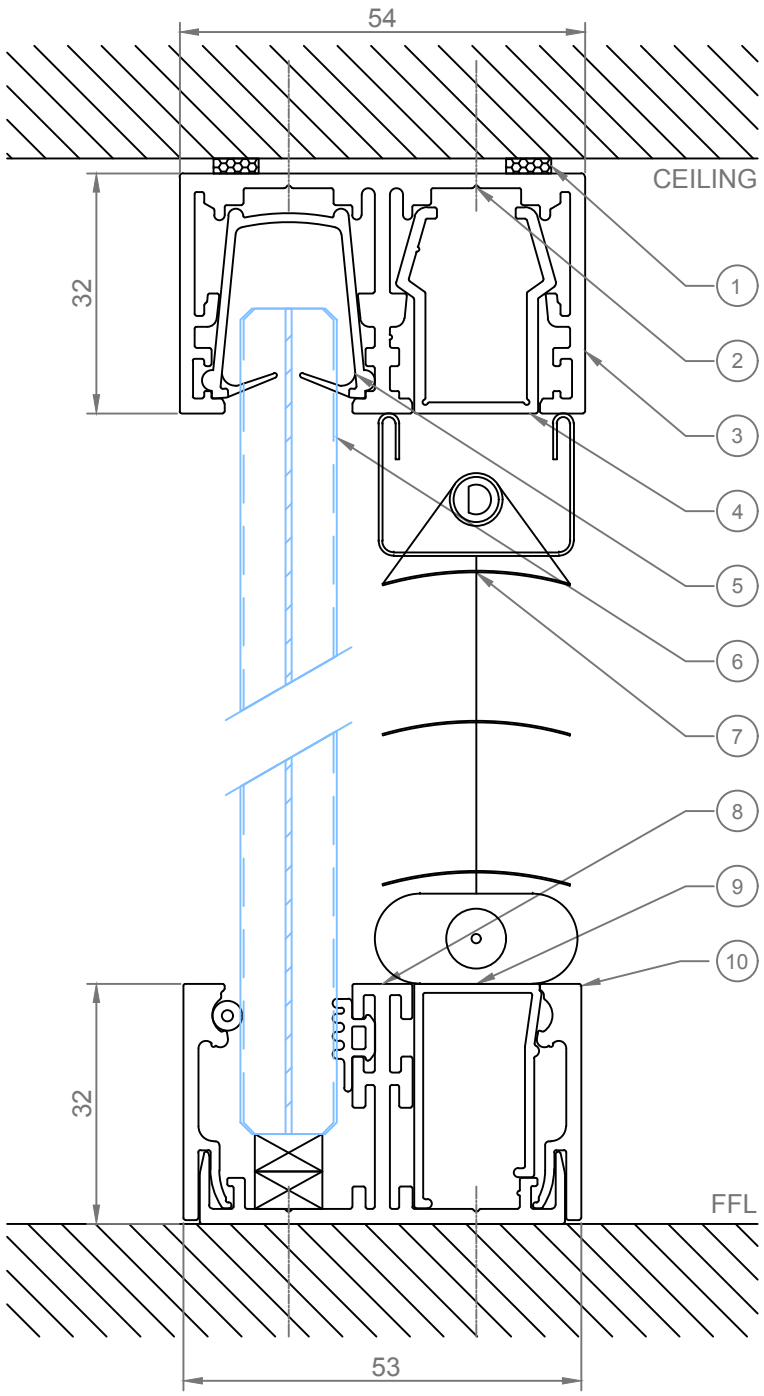
DRAWING NO: K54-VS-07

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 1





Maximum Glazed Module Possible		
Unit	Height	Width
Module Size	3000mm	1200mm
Glass Size	2974mm	1196mm

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COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	K54GI
5	SJ20
6	10-14.8mm (CFT or A/Lam) GLASS
7	BLINDS
8	K54FT
9	K54BI
10	K54GB

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Offset Blinds

0 min Integrity
0 min Insulation

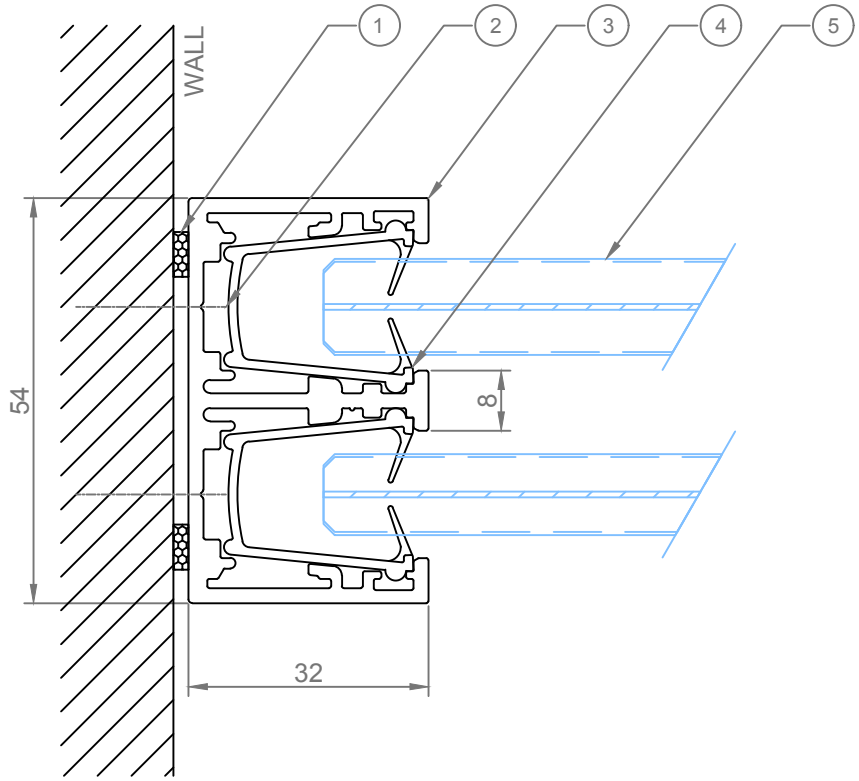
0 mm
Deflection

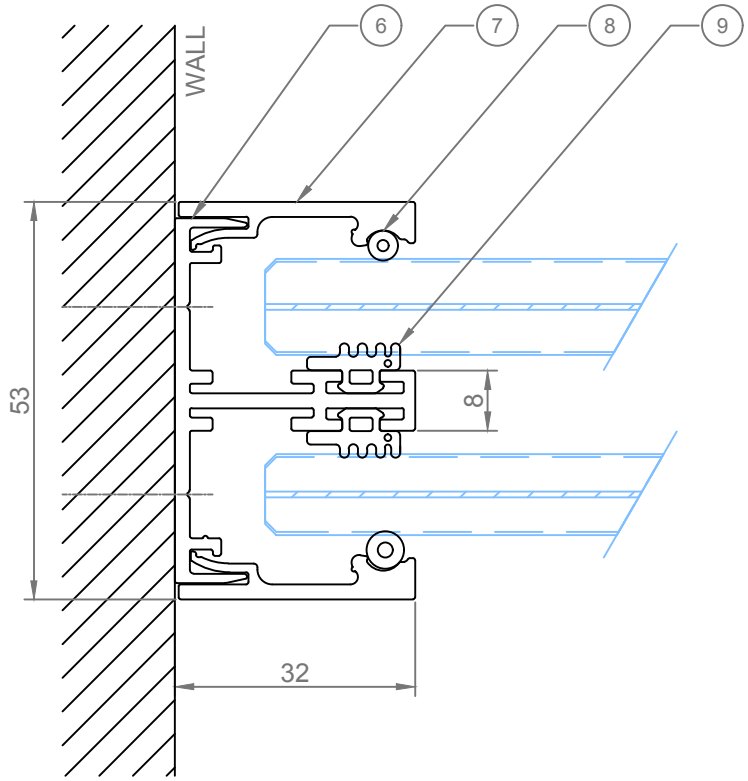
DRAWING NO: K54-VS-08

DATE: 26/09/19

SCALE: 1:1

ISSUE NO: 1





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COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	10-14.8mm (CFT or A/Lam) GLASS
6	K54FT
7	K54GB
8	K54BG5B or K54BG4B or 175
9	SJ26.10B or SJ26.12B or 174

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Horizontal Screen

0 min Integrity
0 min Insulation

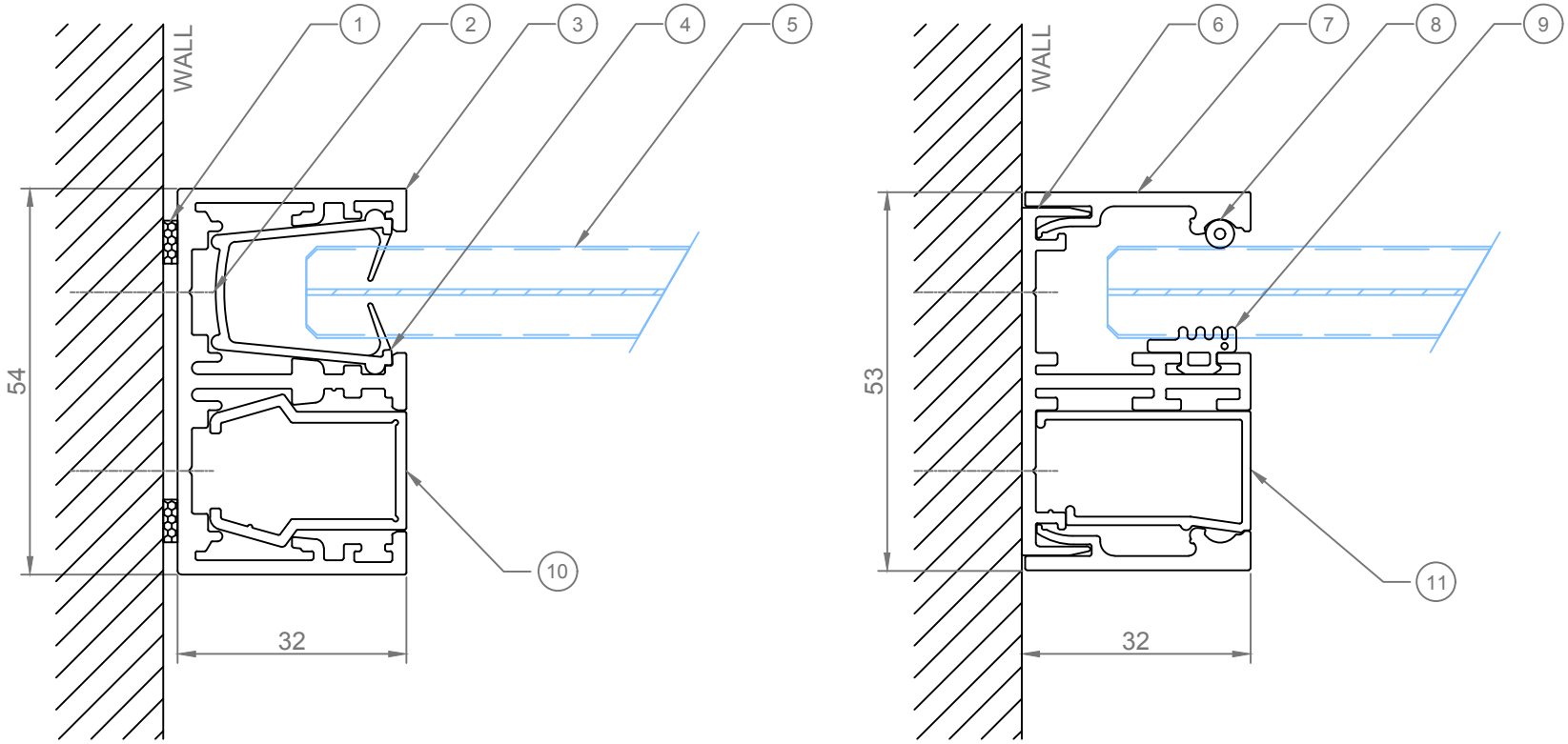
+/- 0 mm
Deflection

DRAWING NO: K54-HS-01

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2



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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	10-14.8mm (CFT or A/Lam) GLASS
6	K54FT
7	K54GB
8	K54BG5B or K54BG4B or 175
9	SJ26.10B or SJ26.12B or 174
10	K54GI
11	K54BI

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Horizontal Screen

0 min Integrity
0 min Insulation

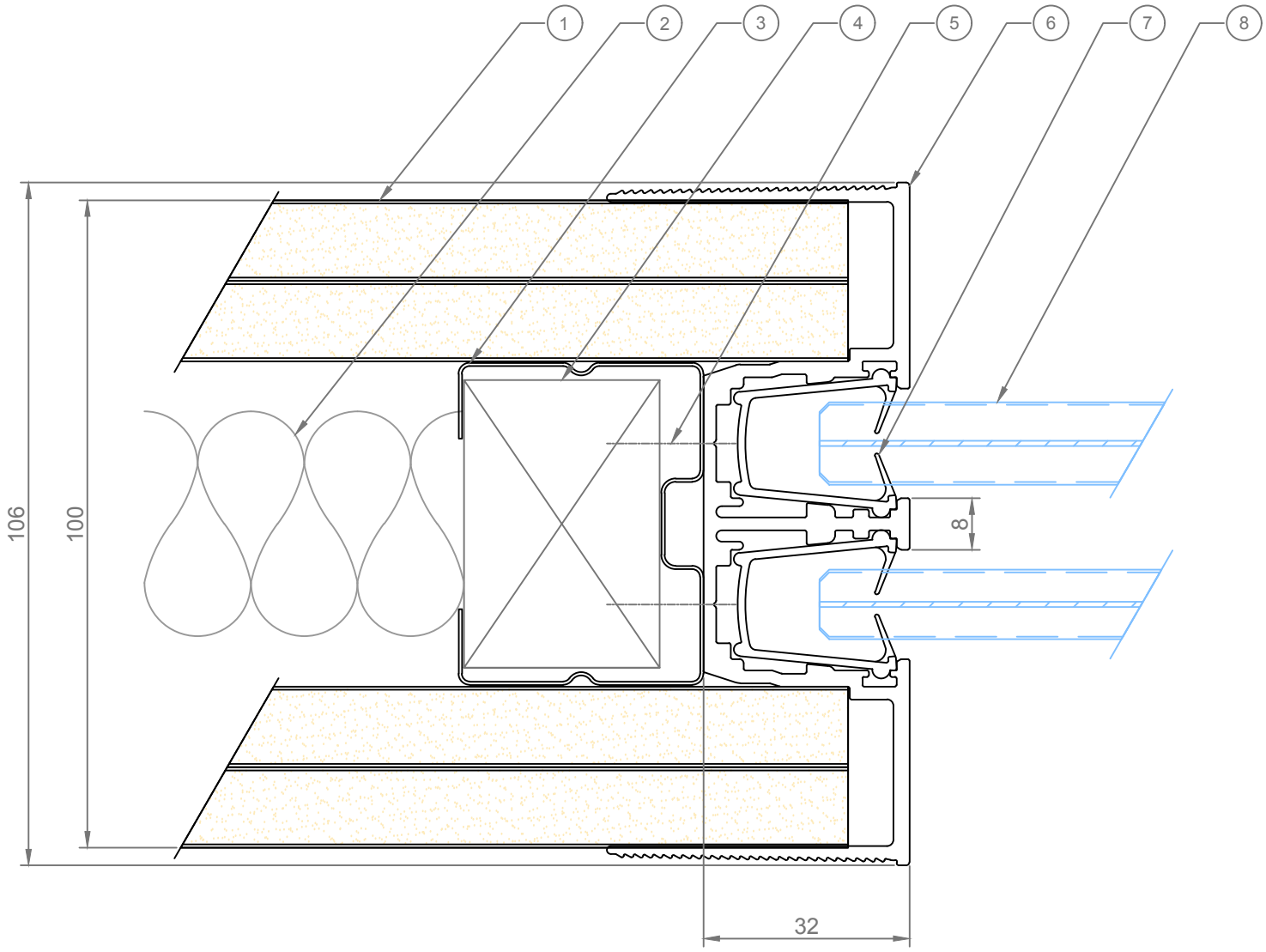
0 mm
Deflection

DRAWING NO: K54-HS-02

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2



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Polar 54

COMPONENT KEY:

1	12.5mm PLASTERBOARD
2	881S50
3	853
4	331
5	SUITABLE STRUCTURAL FIXING
6	K54TJ100
7	SJ20
8	10-14.8mm (CFT or A/Lam) GLASS

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Horizontal Screen

0 min Integrity
0 min Insulation

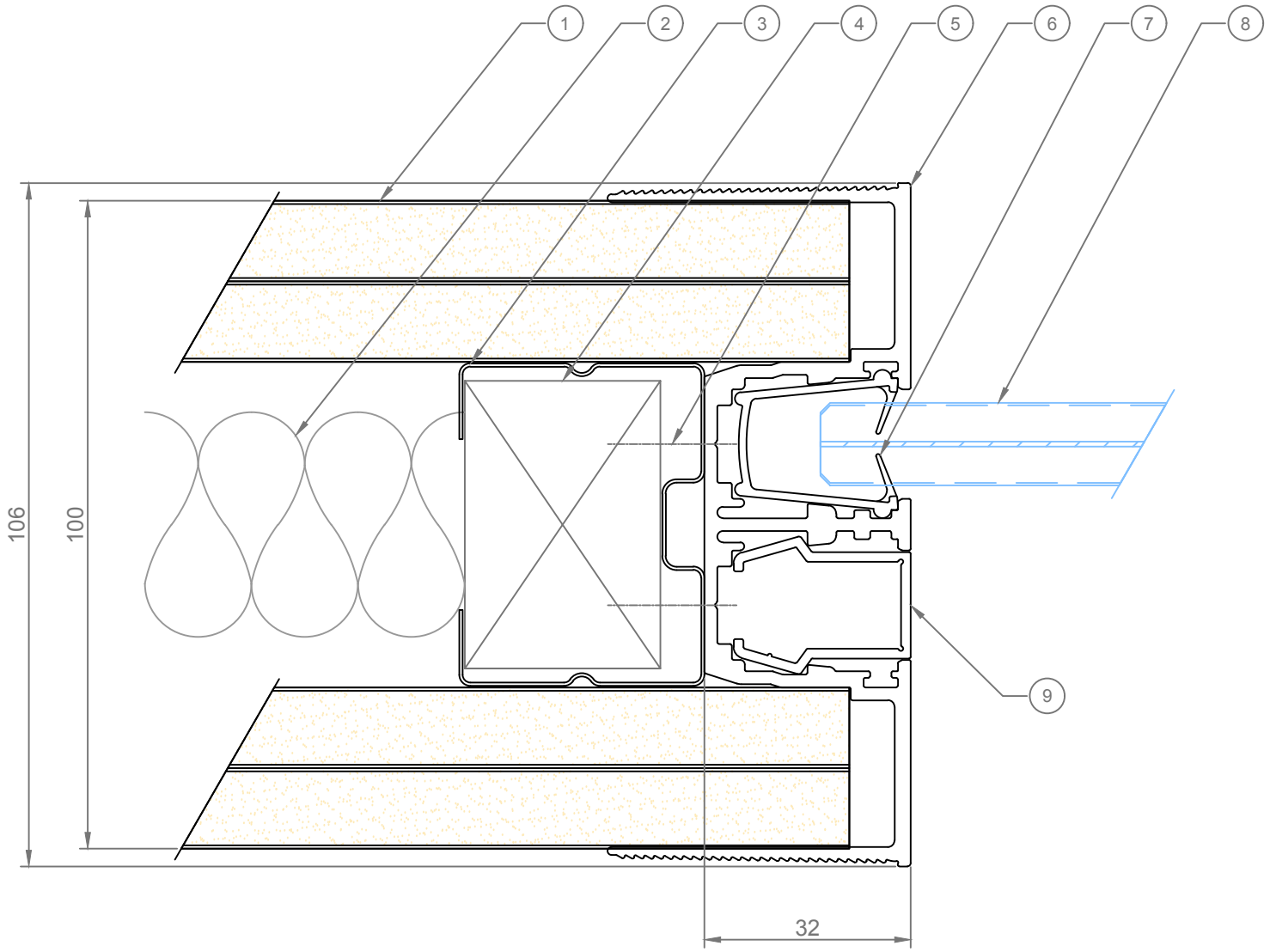
0 mm
Deflection

DRAWING NO: K54-HS-03

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2



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Polar 54

COMPONENT KEY:

1	12.5mm PLASTERBOARD
2	881S50
3	853
4	331
5	SUITABLE STRUCTURAL FIXING
6	K54TJ100
7	SJ20
8	10-14.8mm (CFT or A/Lam) GLASS
9	K54GI

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Single Offset Glazed

Horizontal Screen

0 min Integrity
0 min Insulation

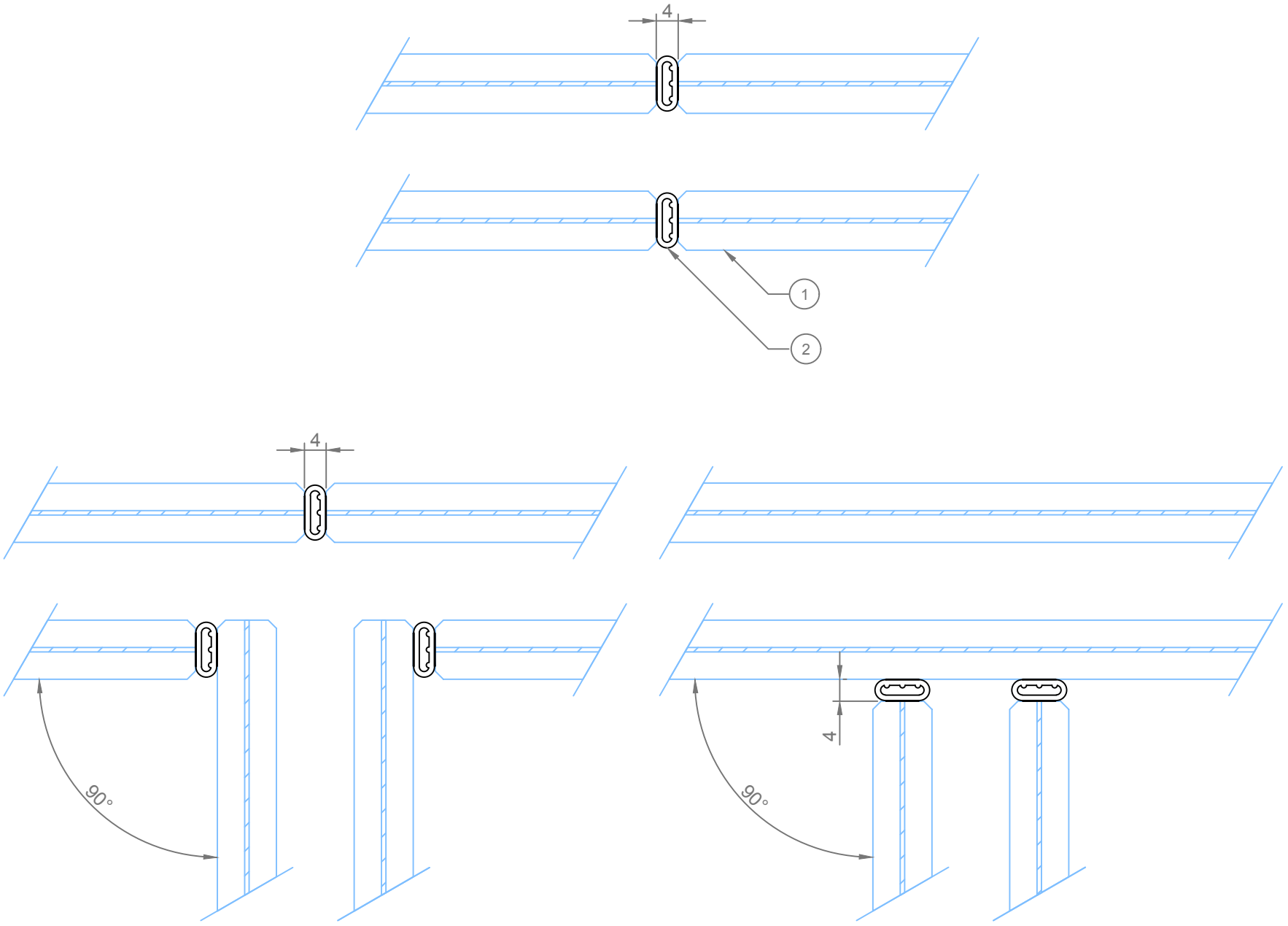
0 mm
Deflection

DRAWING NO: K54-HS-04

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2



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Polar 54

COMPONENT KEY:

1	10-14.8 mm (CFT or A/Lam) GLASS
2	SJ34

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Glazing Joints

0 min Integrity
0 min Insulation

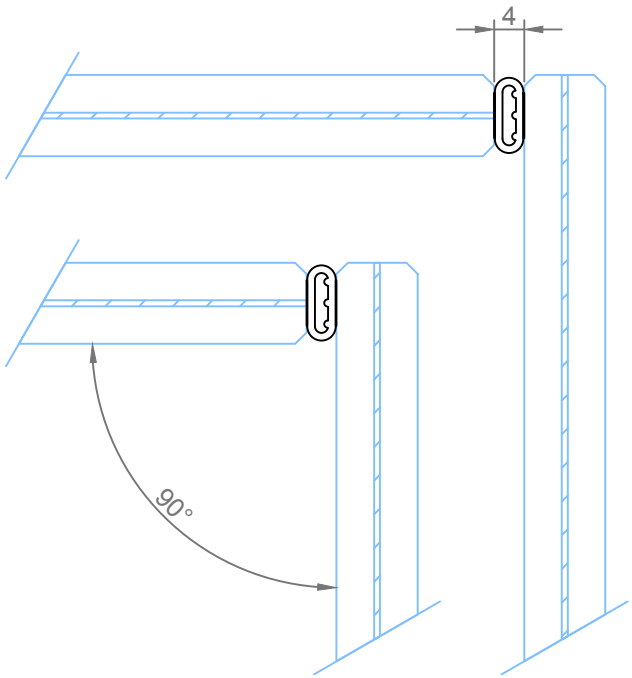
0 mm
Deflection

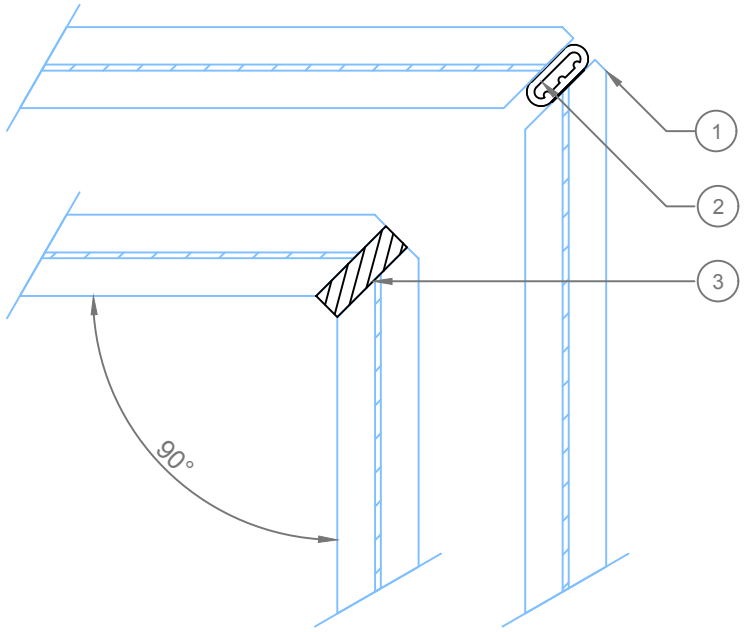
DRAWING NO: K54-HS-05

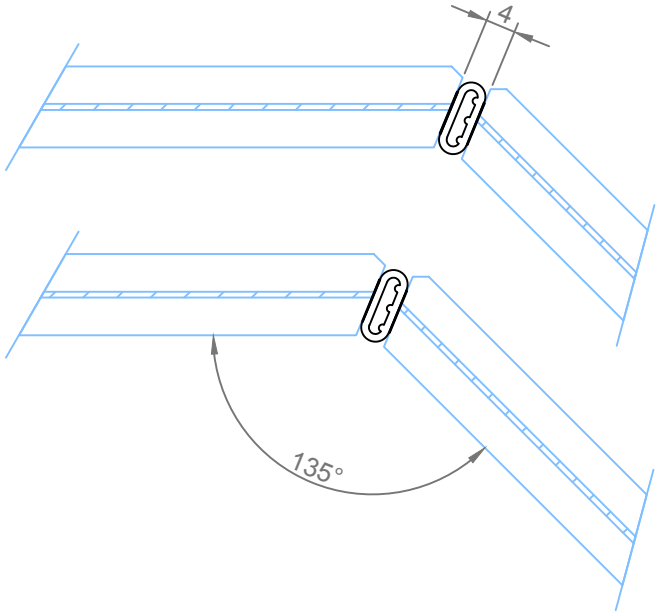
DATE: 13/09/19

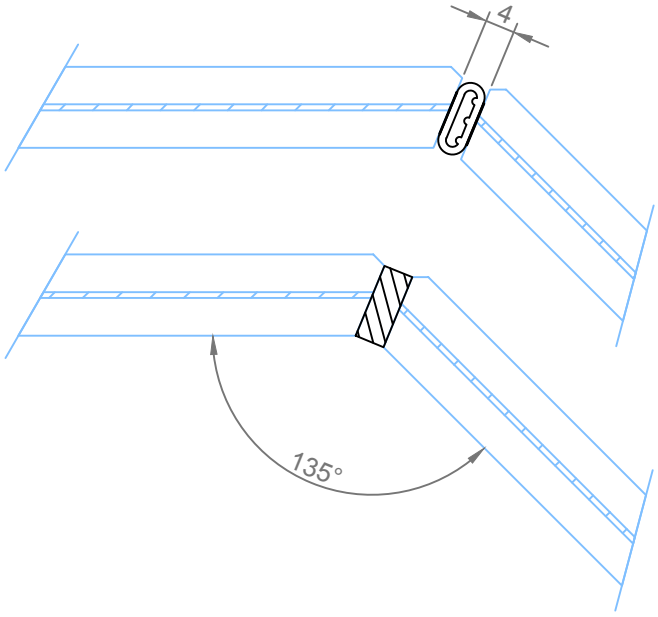
SCALE: 1:1

ISSUE NO: 2









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Polar 54

COMPONENT KEY:

1	10-14.8 mm (CFT or A/Lam) GLASS
2	SJ34
3	SILICONE JOINT

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Glazing Joints

0 min Integrity
0 min Insulation

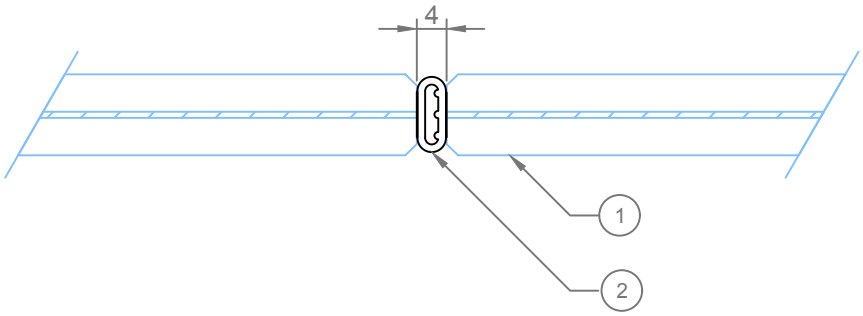
0 mm
Deflection

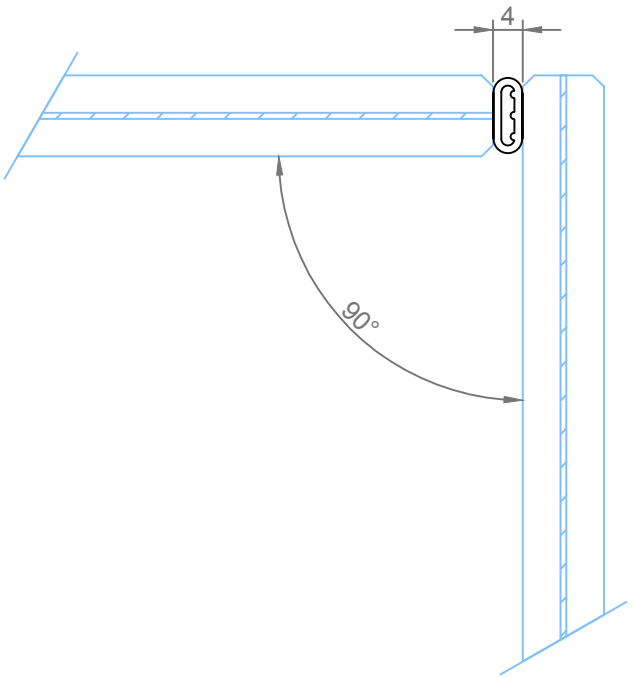
DRAWING NO: K54-HS-06

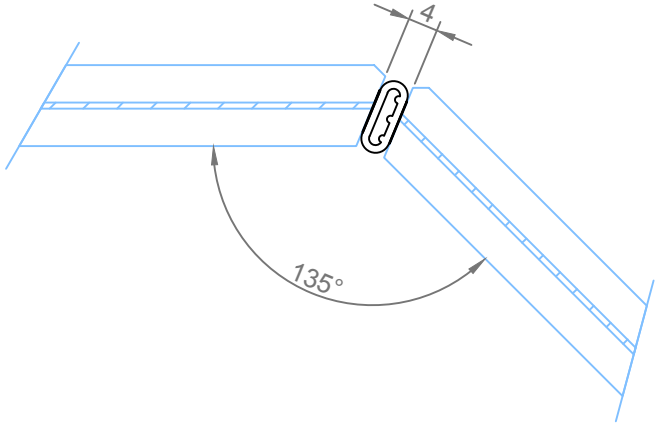
DATE: 13/09/19

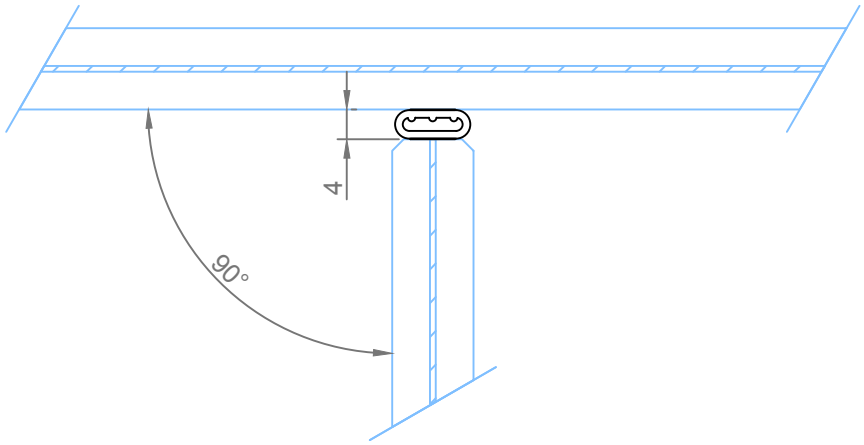
SCALE: 1:1

ISSUE NO: 2









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Polar 54

COMPONENT KEY:

1	10-14.8 mm (CFT or A/Lam) GLASS
2	SJ34

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Glazing Joints

0 min Integrity
0 min Insulation

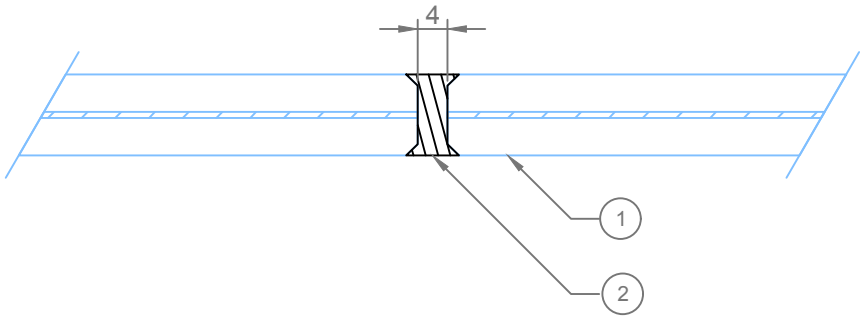
0 mm
Deflection

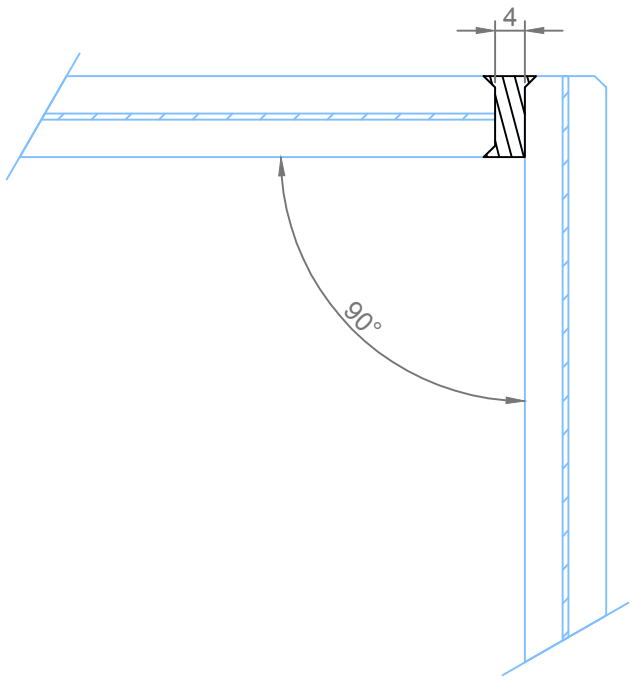
DRAWING NO: K54-HS-07

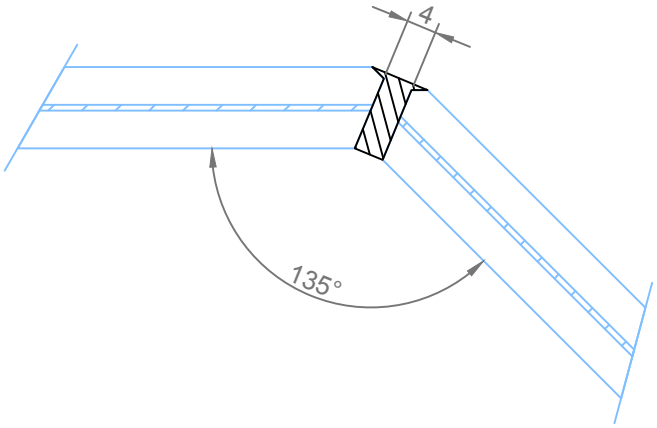
DATE: 13/09/19

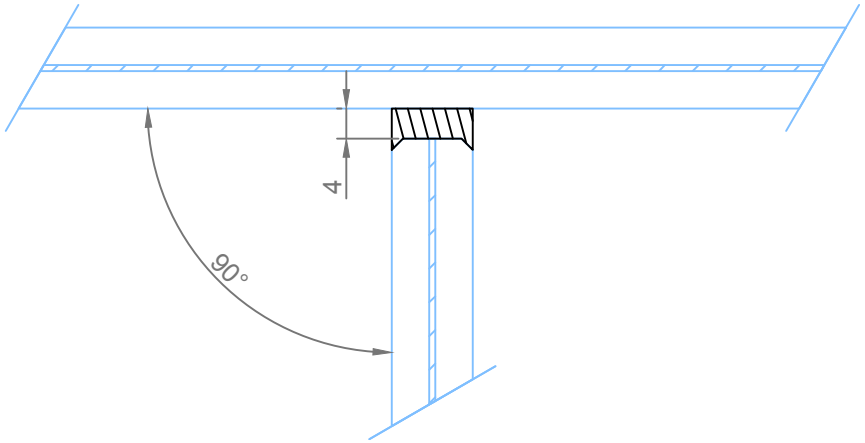
SCALE: 1:1

ISSUE NO: 2









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Polar 54

COMPONENT KEY:

1	10-14.8 mm (CFT or A/Lam) GLASS
2	SILICONE JOINT

NOTES:

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Glazing Joints

0 min Integrity
0 min Insulation

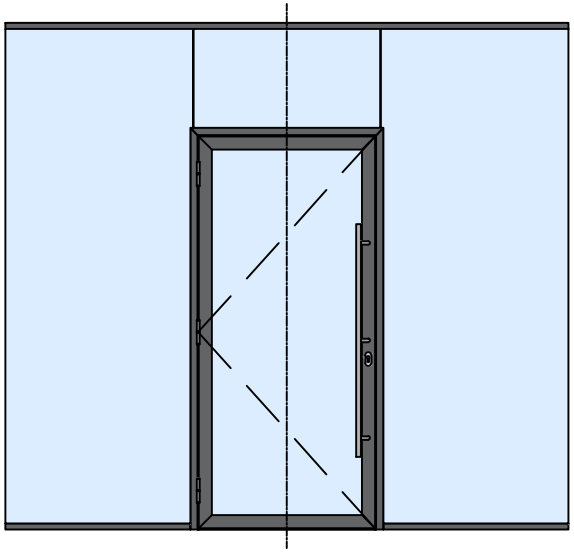
0 mm
Deflection

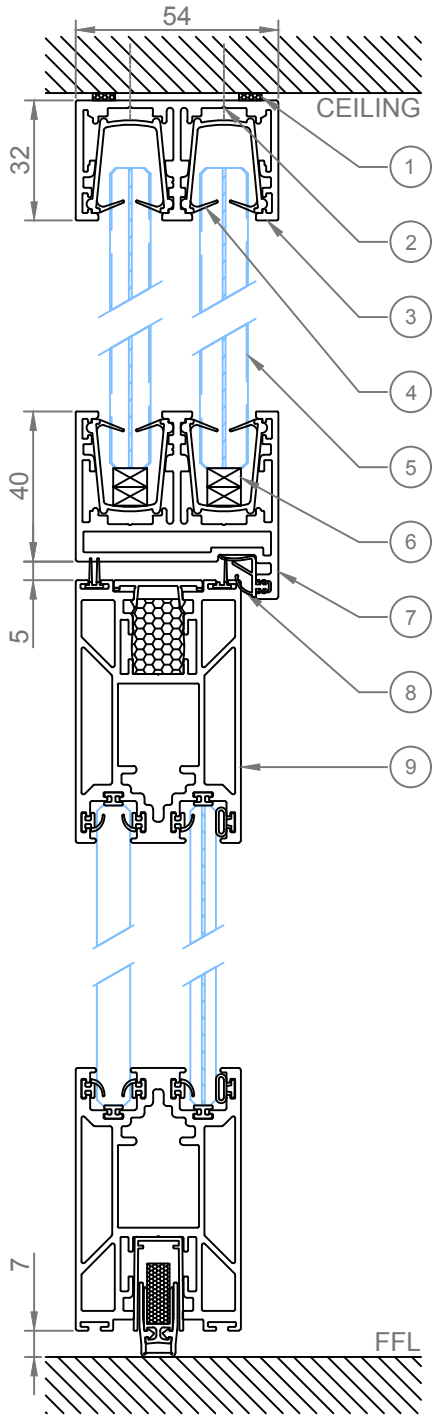
DRAWING NO: K54-HS-08

DATE: 13/09/19

SCALE: 1:1

ISSUE NO: 2





Maximum overpanel height is based on it being no more than 25% of the actual door height.		
	Minimum	Maximum
Overpanel Height	200mm	600mm
Door Height	1981mm	2400mm
Overall Height	2300mm	3000mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	10-14.8mm (CFT or A/Lam) GLASS
6	PSUN PACKERS
7	K54DF
8	K54DS
9	44mm SONIK DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Vertical Sonik Door

0 min Integrity
0 min Insulation

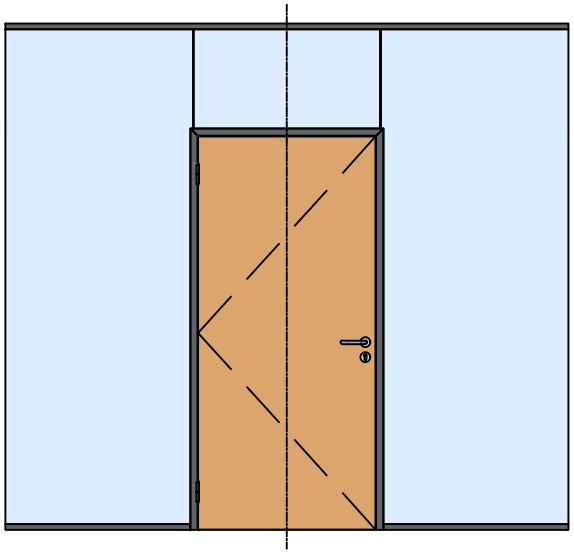
0 mm
Deflection

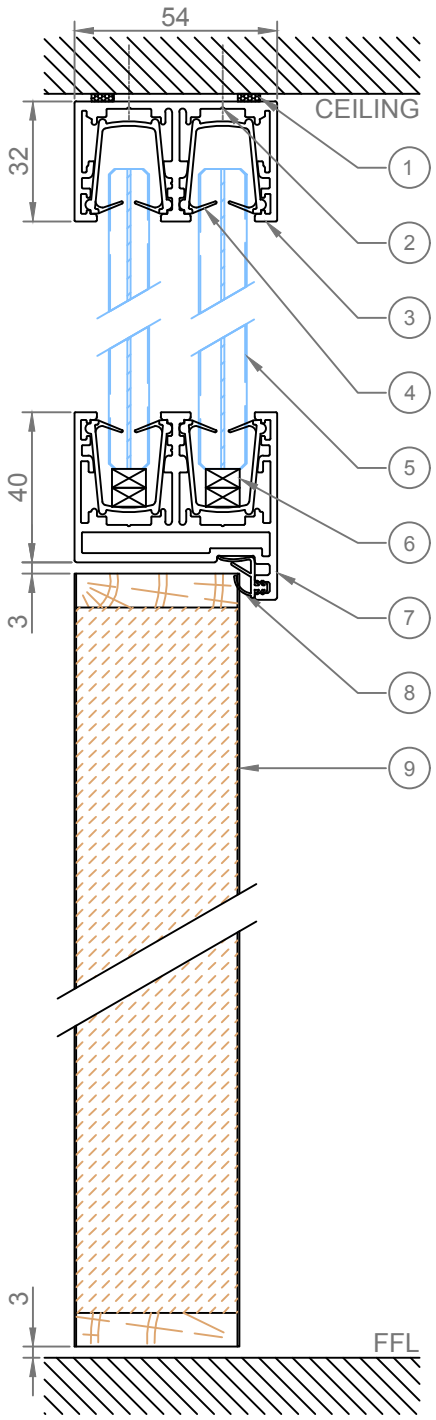
DRAWING NO: K54-VD-01

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





	Minimum	Maximum
Overpanel Height	200mm	662mm
Door Height	1981mm	2400mm
Overall Height	2300mm	3000mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	10-14.8mm (CFT or A/Lam) GLASS
6	PSUN PACKERS
7	K54DF
8	K54DS
9	44mm TIMBER DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Vertical Timber Door

0 min Integrity
0 min Insulation

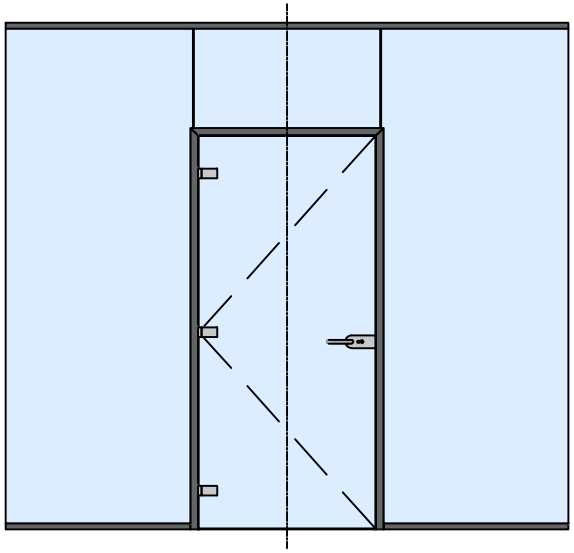
+/- 0 mm
Deflection

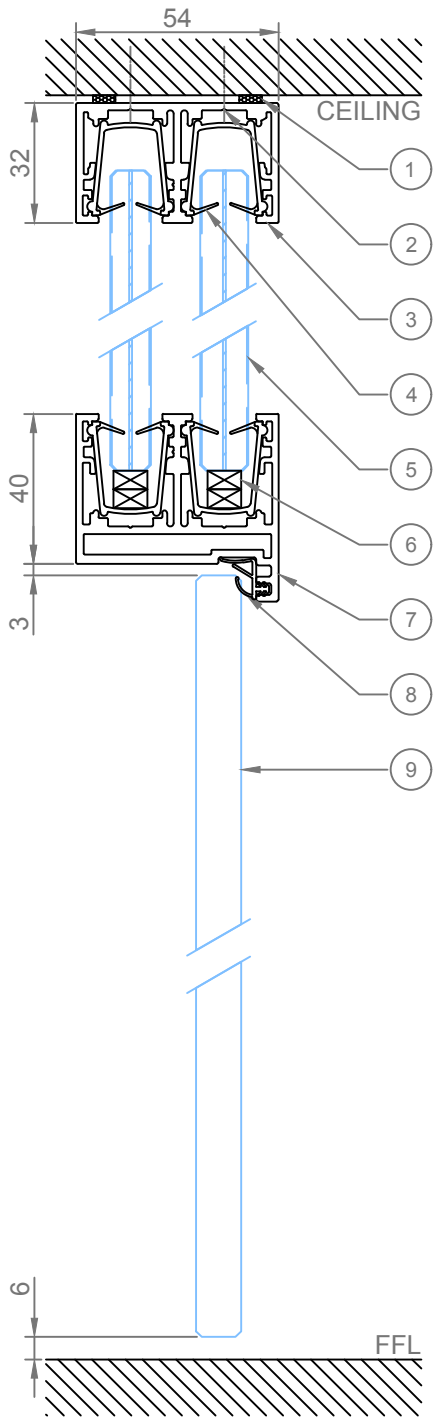
DRAWING NO: K54-VD-02

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





	Minimum	Maximum
Overpanel Height	200mm	662mm
Door Height	1981mm	2400mm
Overall Height	2300mm	3000mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	10-14.8mm (CFT or A/Lam) GLASS
6	PSUN PACKERS
7	K54DF
8	K54DS
9	10-12mm CFT GLASS DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Vertical Glass Door

0 min Integrity
0 min Insulation

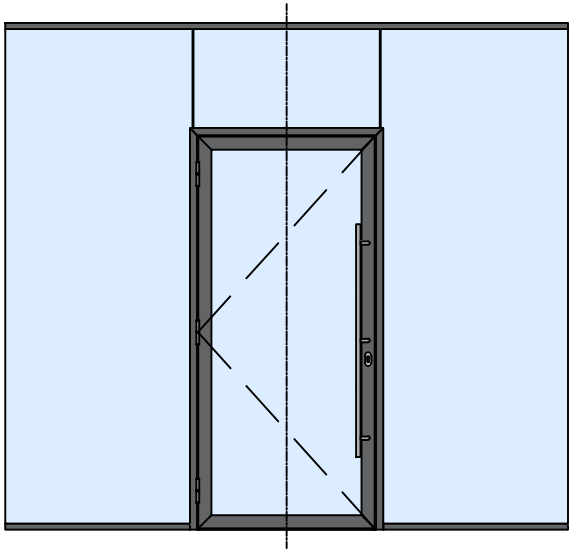
0 mm
Deflection

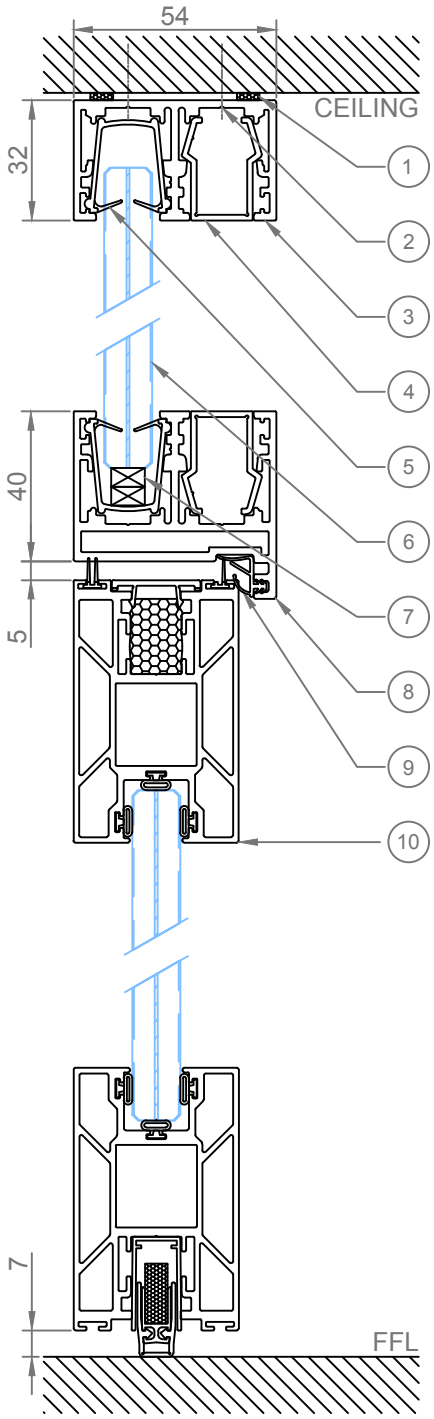
DRAWING NO: K54-VD-03

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





Maximum overpanel height is based on it being no more than 25% of the actual door height.		
	Minimum	Maximum
Overpanel Height	200mm	600mm
Door Height	1981mm	2400mm
Overall Height	2300mm	3000mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	K54GI
5	SJ20
6	10-14.8mm (CFT or A/Lam) GLASS
7	PSUN PACKERS
8	K54DF
9	K54DS
10	44mm SONIK DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Vertical Sonik Door

0 min Integrity
0 min Insulation

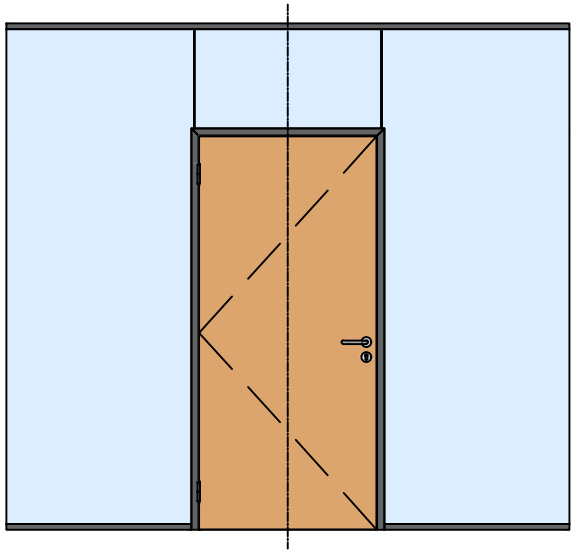
0 mm
Deflection

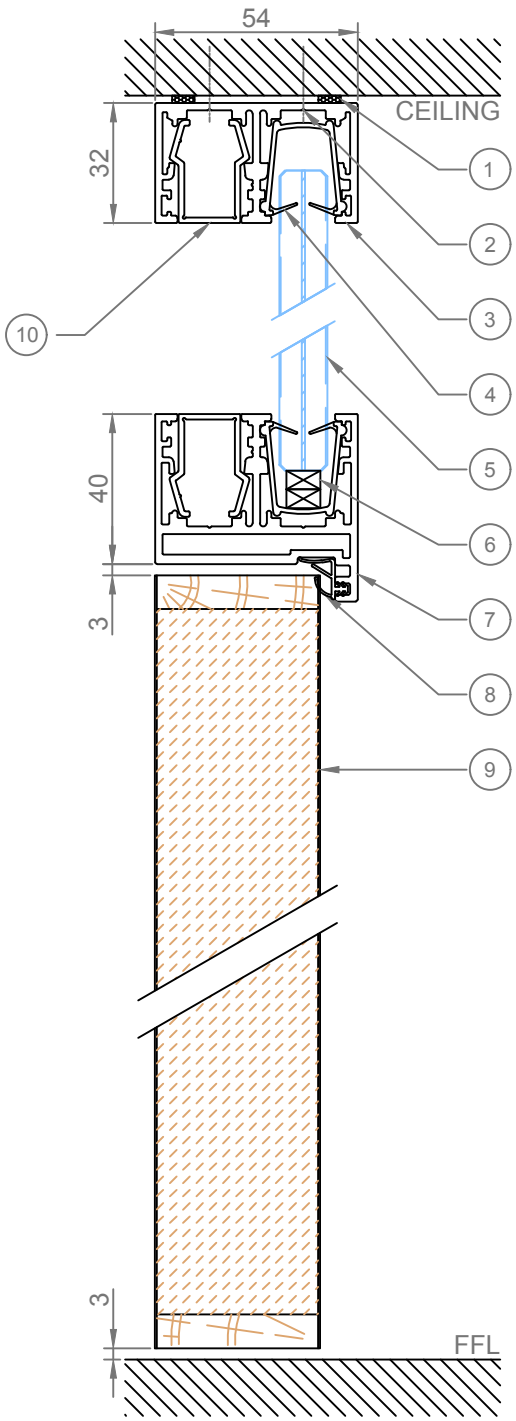
DRAWING NO: K54-VD-04

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





	Minimum	Maximum
Overpanel Height	200mm	662mm
Door Height	1981mm	2400mm
Overall Height	2300mm	3000mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	10-14.8mm (CFT or A/Lam) GLASS
6	PSUN PACKERS
7	K54DF
8	K54DS
9	44mm TIMBER DOOR
10	K54GI

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Vertical Timber Door

0 min Integrity
0 min Insulation

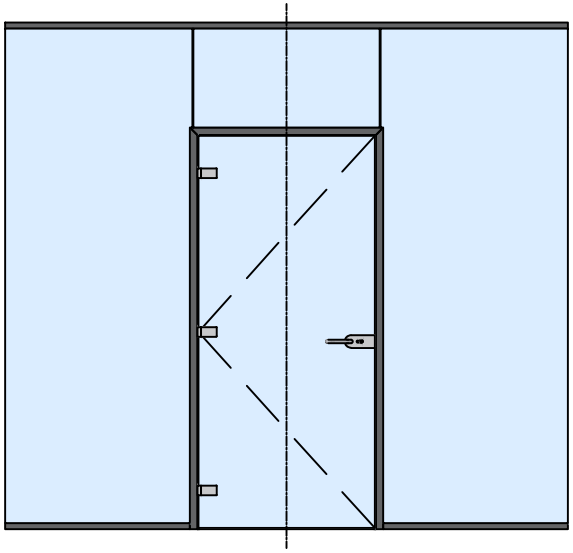
0 mm
Deflection

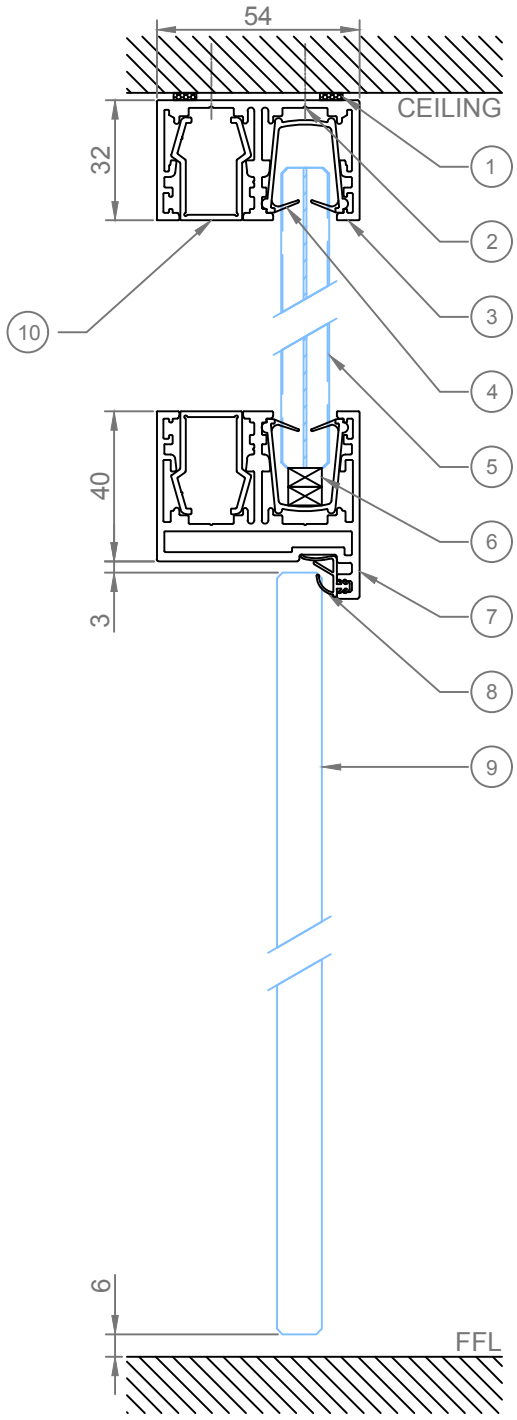
DRAWING NO: K54-VD-05

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





	Minimum	Maximum
Overpanel Height	200mm	662mm
Door Height	1981mm	2400mm
Overall Height	2300mm	3000mm

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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	10-14.8mm (CFT or A/Lam) GLASS
6	PSUN PACKERS
7	K54DF
8	K54DS
9	10-12mm CFT GLASS DOOR
10	K54GI

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Offset Single Glazed

Vertical Glass Door

0 min Integrity
0 min Insulation

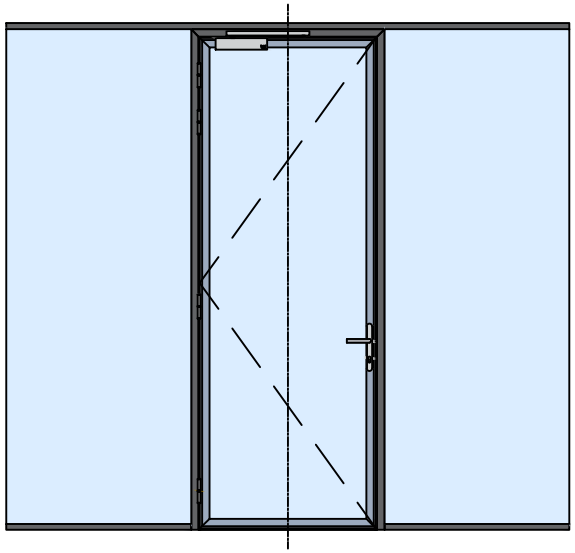
0 mm
Deflection

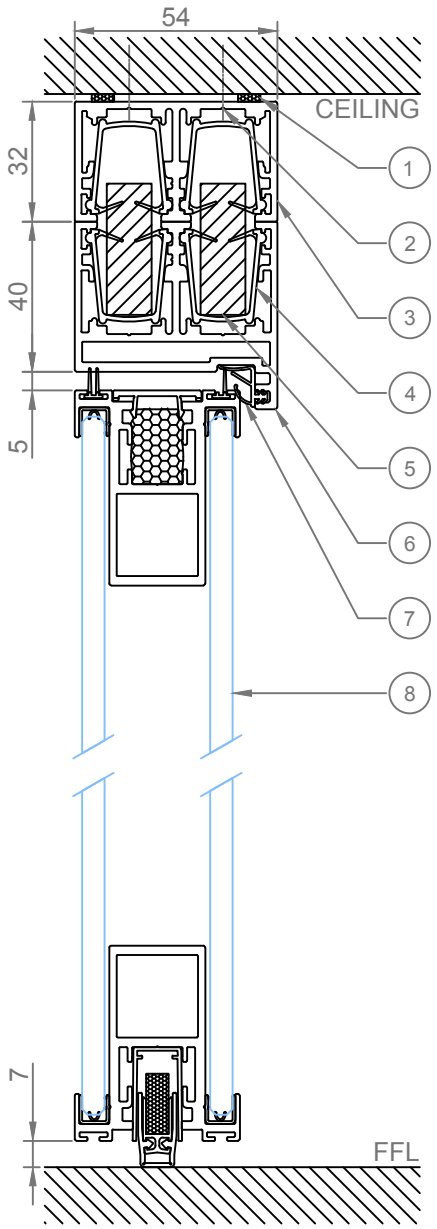
DRAWING NO: K54-VD-06

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	SJ69
6	K54DF
7	K54DS
8	44mm SONIK DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Vertical Sonik Door

0 min Integrity
0 min Insulation

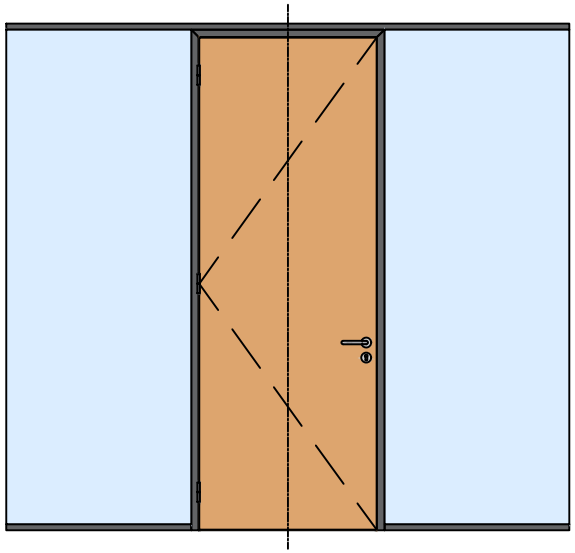
+/- 0 mm
Deflection

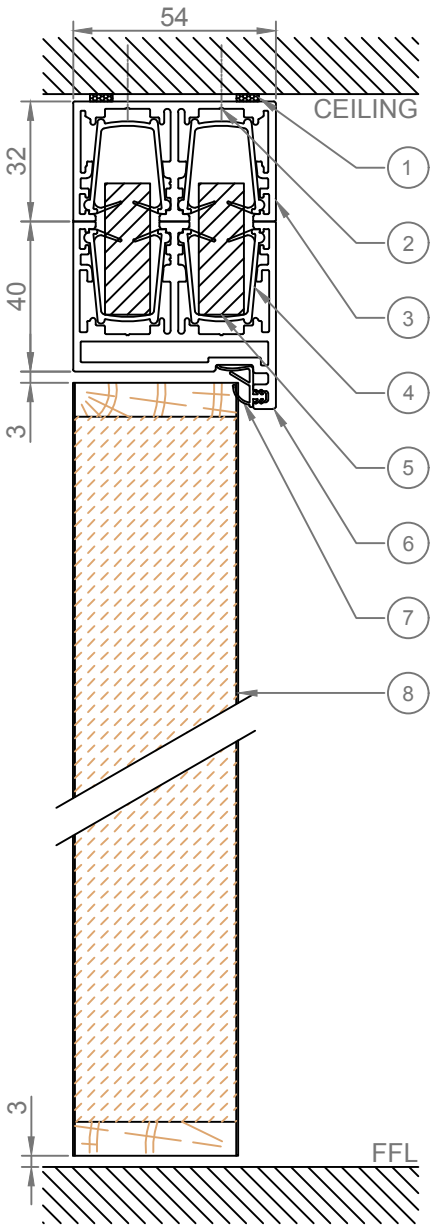
DRAWING NO: K54-VD-07

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	SJ69
6	K54DF
7	K54DS
8	44mm TIMBER DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Vertical Timber Door

0 min Integrity
0 min Insulation

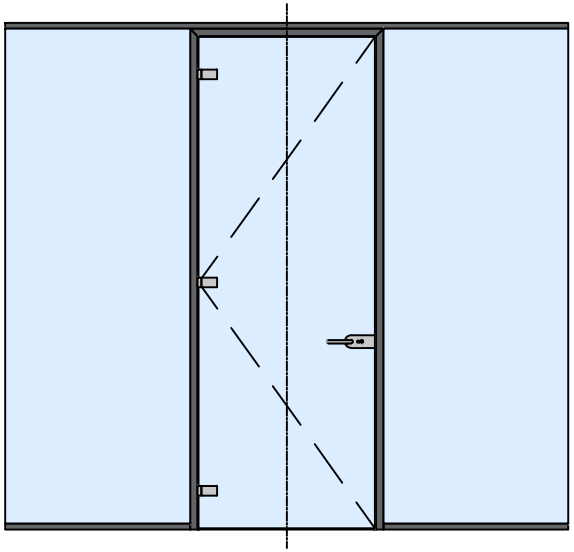
+/-
0 mm
Deflection

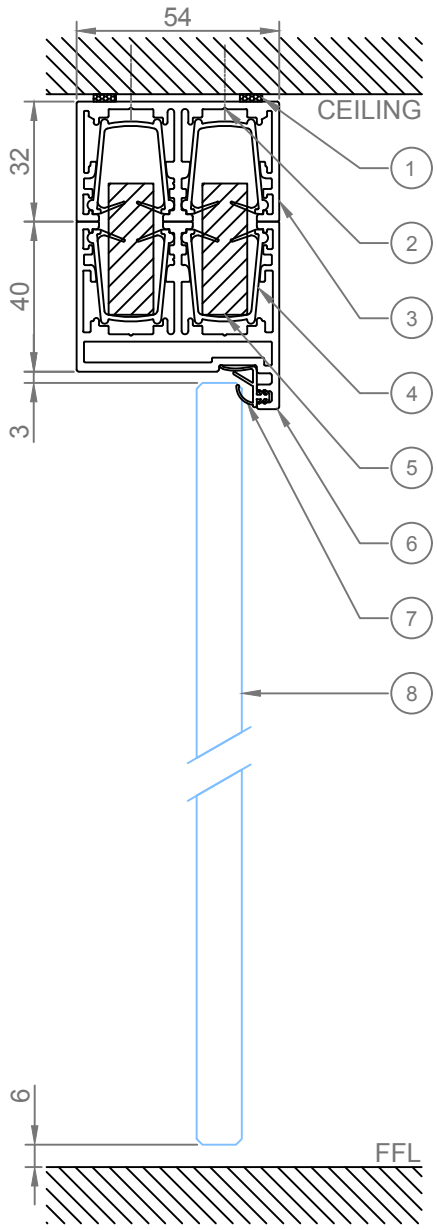
DRAWING NO: K54-VD-08

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	342 FOAM
2	SUITABLE STRUCTURAL FIXING
3	K54HT
4	SJ20
5	SJ69
6	K54DF
7	K54DS
8	10-12mm CFT GLASS DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Vertical Glass Door

0 min Integrity
0 min Insulation

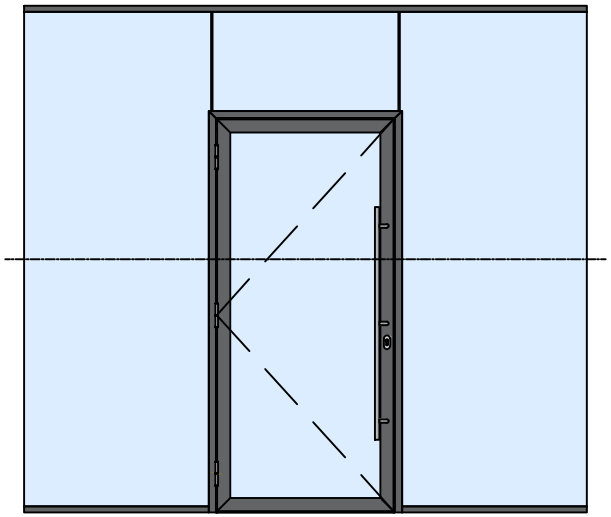
+/- 0 mm
Deflection

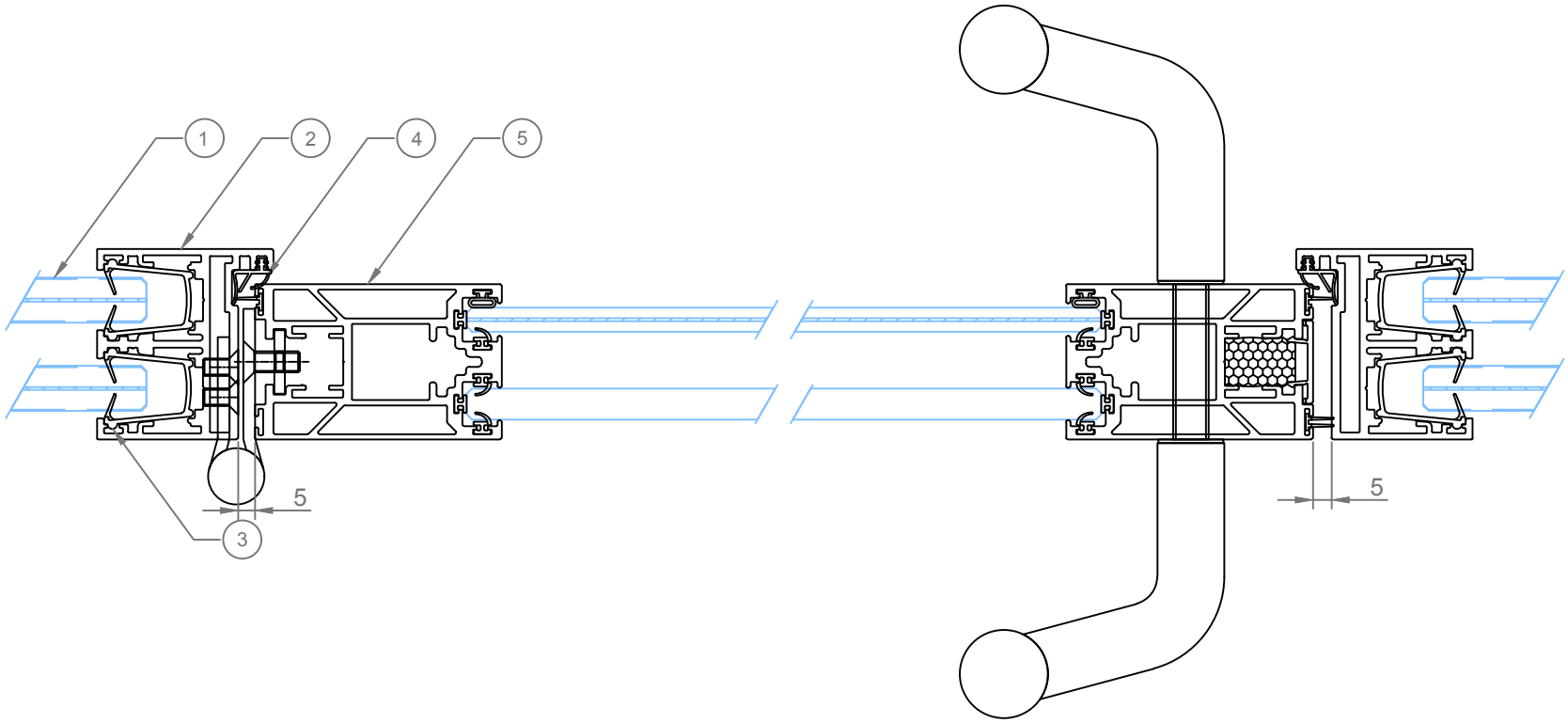
DRAWING NO: K54-VD-09

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	10-14.8mm (CFT or A/Lam) GLASS
2	K54DF
3	SJ20
4	K54DS
5	44mm SONIK DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Horizontal Sonik Door

0 min Integrity
0 min Insulation

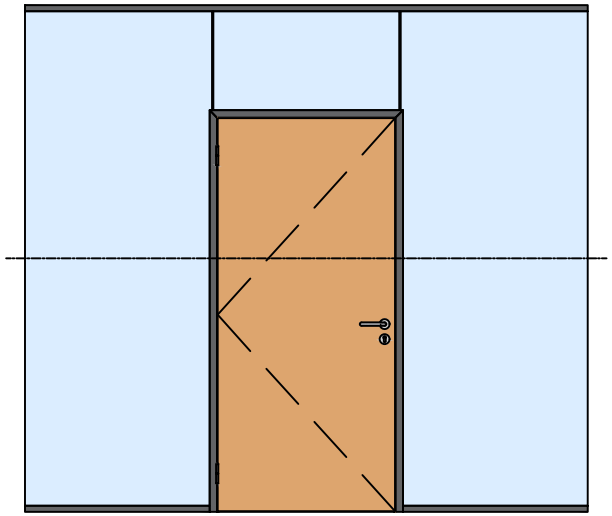
0 mm
Deflection

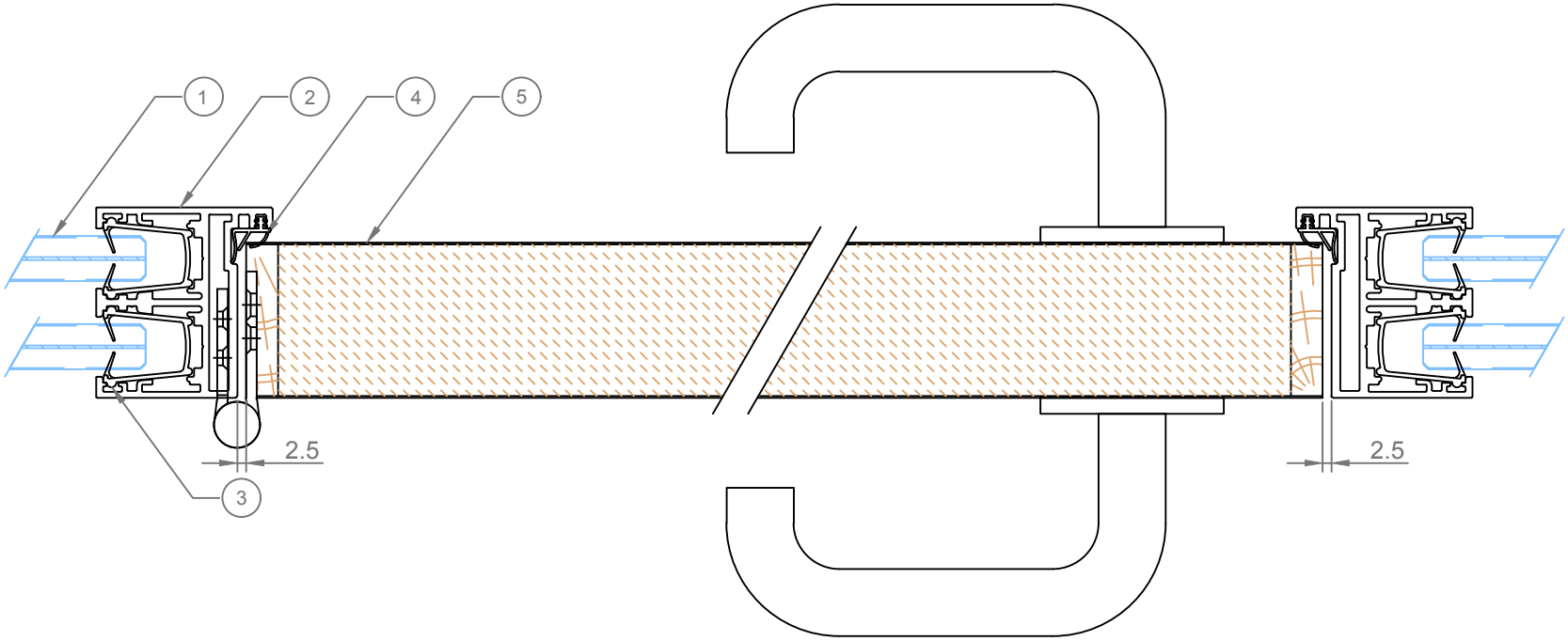
DRAWING NO: K54-HD-01

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	10-14.8mm (CFT or A/Lam) GLASS
2	K54DF
3	SJ20
4	K54DS
5	44mm TIMBER DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Horizontal Timber Door

0 min Integrity
0 min Insulation

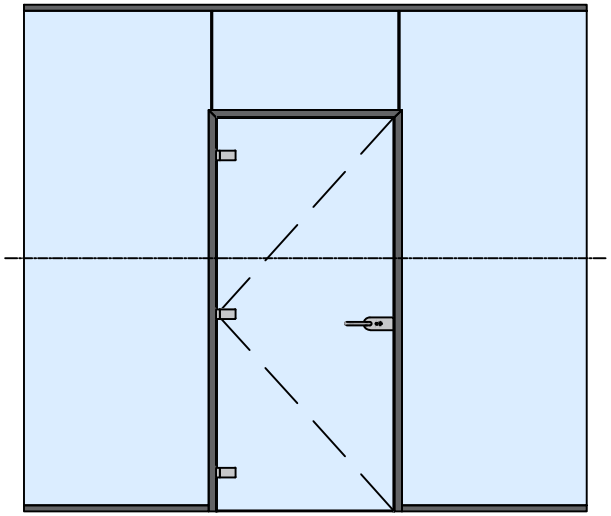
+/- 0 mm
Deflection

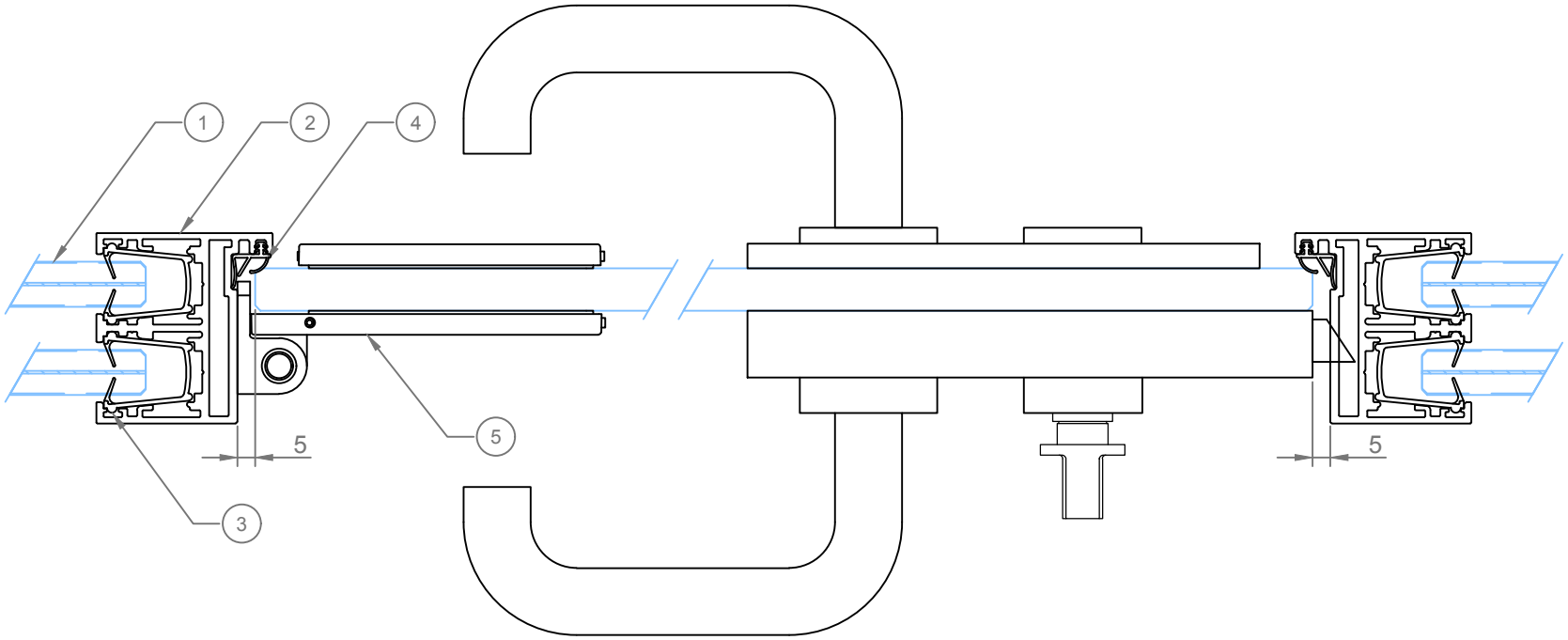
DRAWING NO: K54-HD-02

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	10-14.8mm (CFT or A/Lam) GLASS
2	K54DF
3	SJ20
4	K54DS
5	10-12mm CFT GLASS DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Horizontal Glass Door

0 min Integrity
0 min Insulation

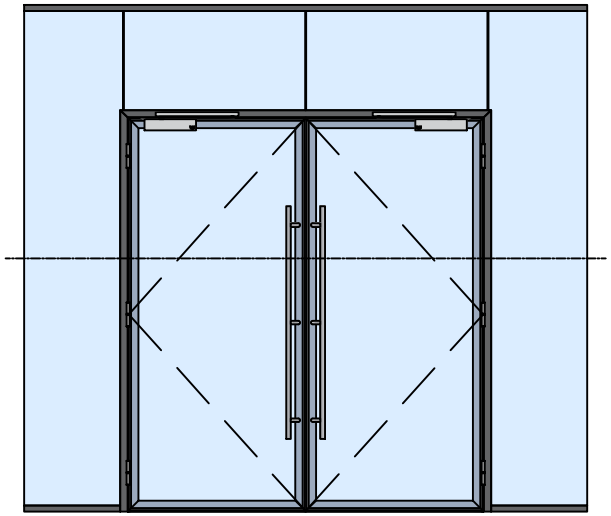
0 mm
Deflection

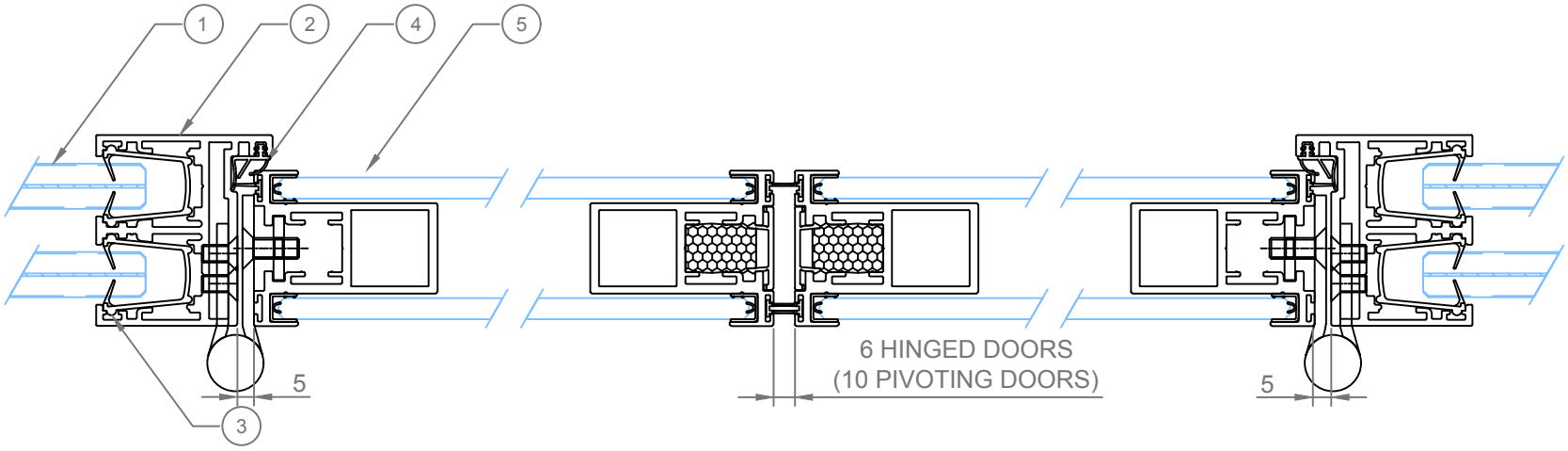
DRAWING NO: K54-HD-03

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	10-14.8mm (CFT or A/Lam) GLASS
2	K54DF
3	SJ20
4	K54DS
5	44mm SONIK DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

REFER TO SONIK DOOR DESIGN GUIDE FOR MORE INFORMATION

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Horizontal Sonik Door

0 min Integrity
0 min Insulation

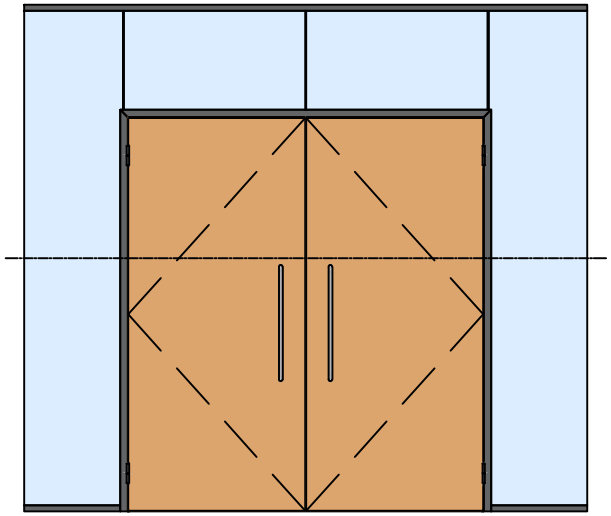
0 mm
Deflection

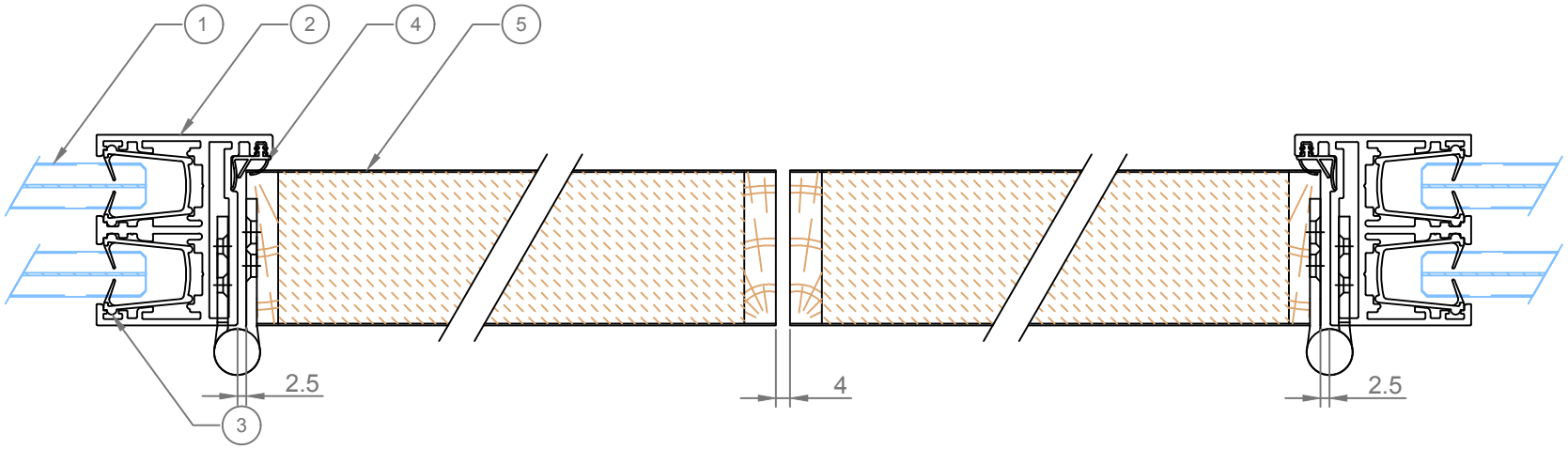
DRAWING NO: K54-HD-04

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	10-14.8mm (CFT or A/Lam) GLASS
2	K54DF
3	SJ20
4	K54DS
5	44mm TIMBER DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Horizontal Timber Door

0 min Integrity
0 min Insulation

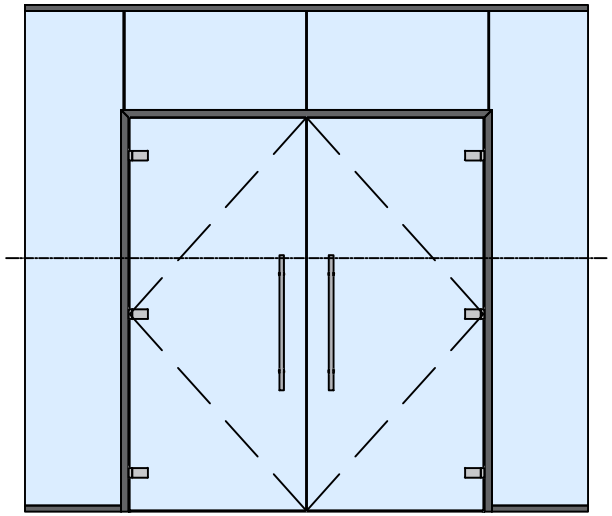
+/- 0 mm
Deflection

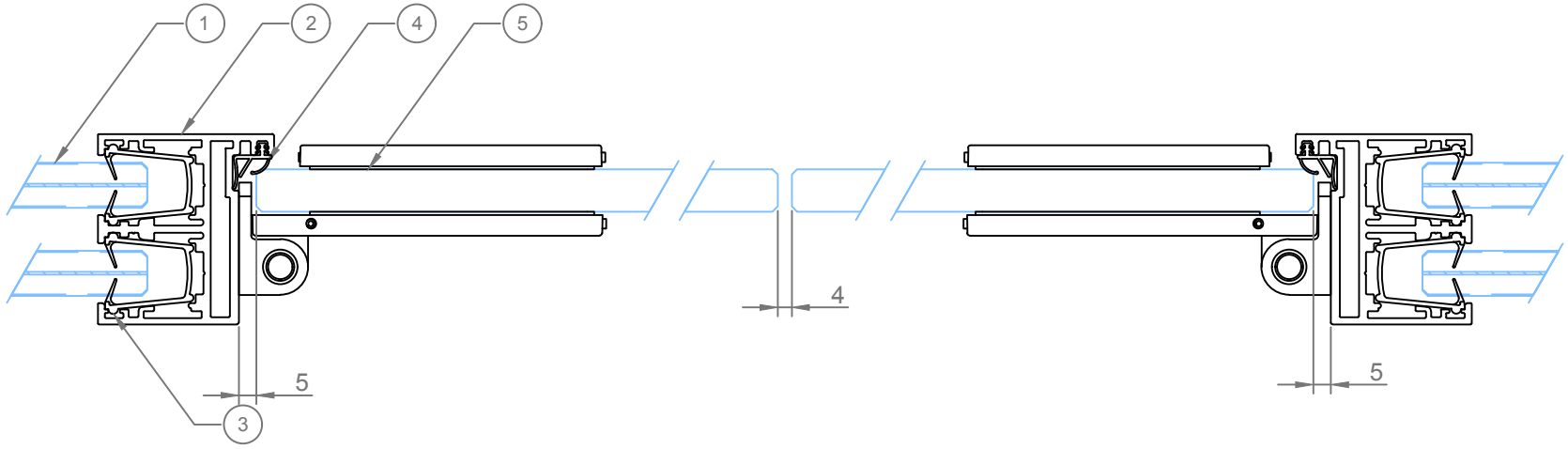
DRAWING NO: K54-HD-05

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	10-14.8mm (CFT or A/Lam) GLASS
2	K54DF
3	SJ20
4	K54DS
5	10-12mm CFT GLASS DOOR

NOTES:

OTHER IRONMONGERY OPTIONS ARE AVAILABLE

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed
Offset Single Glazed

Horizontal Glass Door

0 min Integrity
0 min Insulation

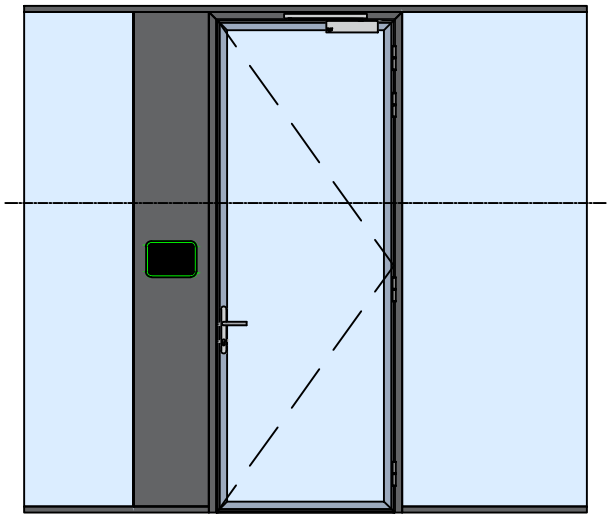
0 mm
Deflection

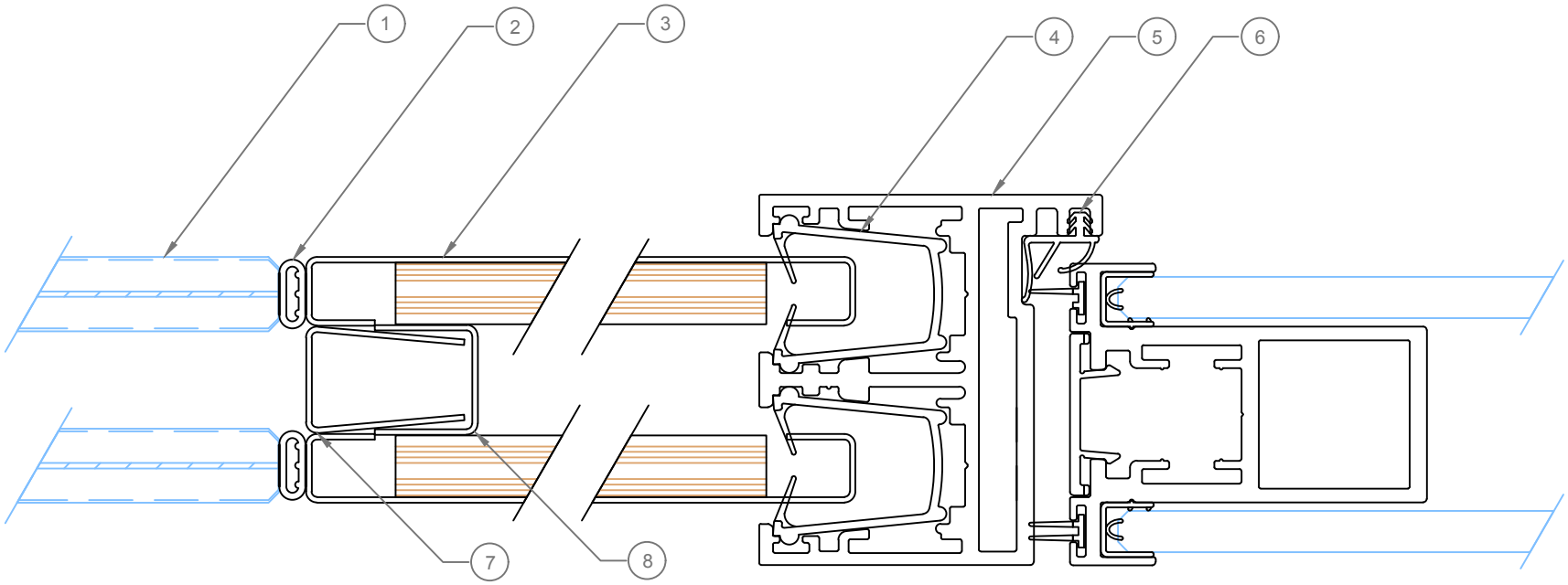
DRAWING NO: K54-HD-06

DATE: 13/09/19

SCALE: 1:2

ISSUE NO: 2





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Polar 54

COMPONENT KEY:

1	10-14.8mm (CFT or A/Lam) GLASS
2	SJ34
3	TECH PANEL (MTO)
4	SJ20
5	K54DF
6	K54DS
7	CAPPING POST (MTO)
8	SUPPORT POST (MTO)

NOTES:

TECH PANELS AND POSTS ARE MADE TO ORDER ITEMS

ALL DIMENSIONS ARE NOMINAL & IN mm

JUNCTION CATEGORY:

Double Glazed

Horizontal Tech Panel

0 min Integrity
0 min Insulation

+/- 0 mm
Deflection

DRAWING NO: K54-HD-07

DATE: 16/09/19

SCALE: 1:1

ISSUE NO: 1