



LONSDALE METAL Co. LTD

London N17 9QU

TEL: 020 8801 4221 FAX: 020 8801 1287

Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**VERTICAL SECTION THROUGH
ROOFLIGHT FRAME ECOGARD FGR-F1**

SCALE: 1:2 AT A4

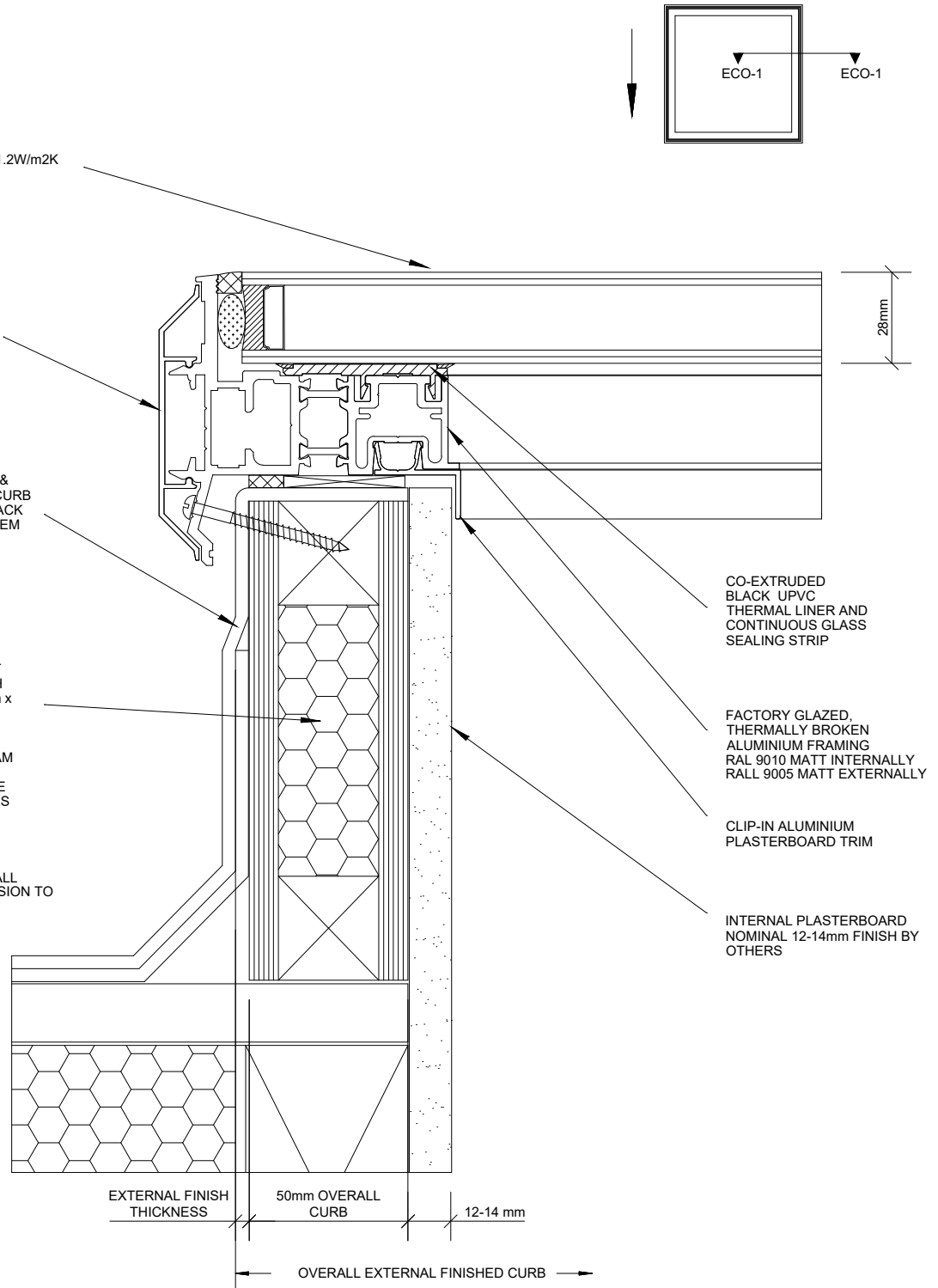
STANDARD 28MM DGU:
CENTRE PANE U VALUE 1.2W/m²K

EXTERNAL SNAP-ON
COVER SECTION
STANDARD FINISH:
RAL 7016 MATT.
OTHER RAL COLOURS
ARE AVAILABLE

EXTERNAL ROOF FINISH &
MEMBRANE UP & OVER CURB
BY OTHERS, STEPPED BACK
AS SHOWN IF FELT SYSTEM
50mm BELOW CURB TOP

OPTIONAL INSULATED
UPSTAND 50mm WIDE x
150mm MINIMUM HEIGHT
ABOVE THE ROOF FINISH
CONSTRUCTED OF 32mm x
32mm TIMBER FRAMING
WITH 9mm MARINE PLY
INTERNALLY &
EXTERNALLY & POLYFOAM
RIGID INSULATION TO
BSEN13165 BY LONSDALE
OR TO DETAIL BY OTHERS

** MINIMUM 5 DEGREE FALL
OVER SHORTEST DIMENSION TO
FACILITATE DRAINAGE **



PROJECT:

**TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT**

REV

DATE

DRAWN

VM

DATE

01/2015

DRG. No.

ECO-A1



LONSDALE METAL Co. LTD

London N17 9QU

TEL: 020 8801 4221 FAX: 020 8801 1287

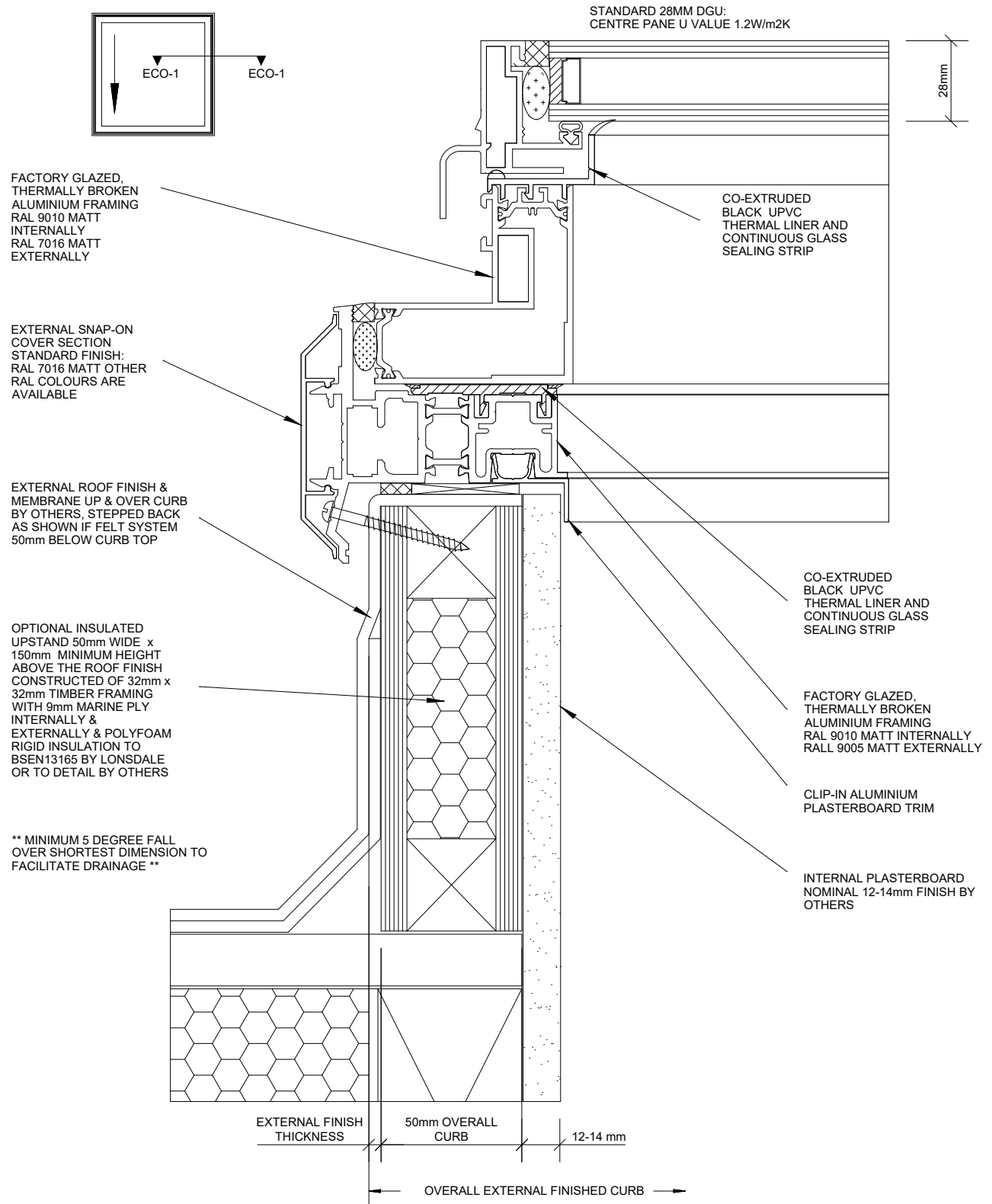
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

VERTICAL SECTION THROUGH ROOFLIGHT FRAME ECOGARD FGR-LP

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2015

DRG. No.

ECO-A1V



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London N17 9QU

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DRAWING TITLE:

VERTICAL SECTION THROUGH
ROOFLIGHT FRAME AT TOP WITH 5
DEGREE PITCH ECOGARD FGR-F1

SCALE: 1:2 AT A4

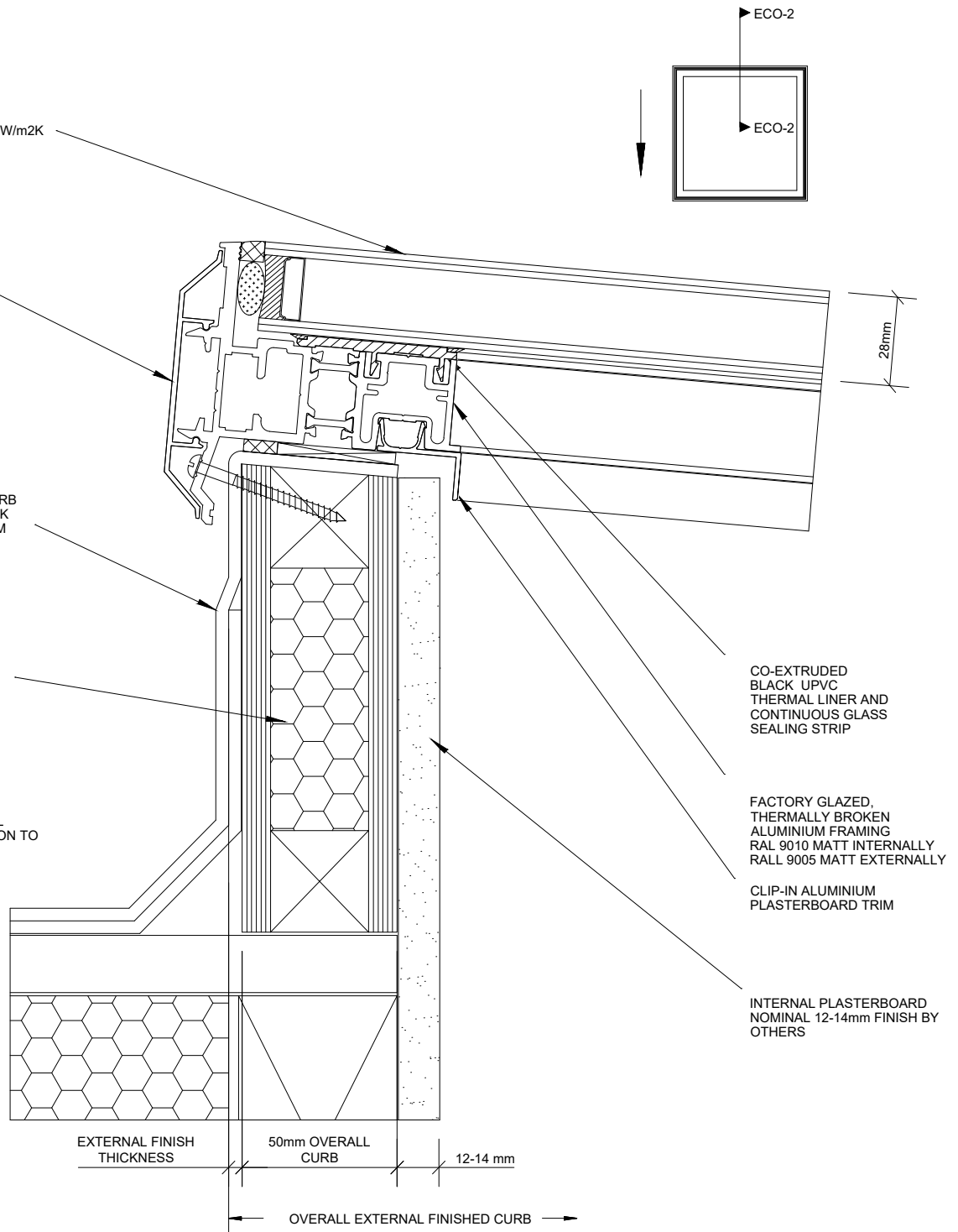
STANDARD 28MM DGU:
CENTRE PANE U VALUE 1.2W/m²K

EXTERNAL SNAP-ON
COVER SECTION
STANDARD FINISH:
RAL 7016 MATT. OTHER
RAL COLOURS ARE
AVAILABLE

EXTERNAL ROOF FINISH &
MEMBRANE UP & OVER CURB
BY OTHERS, STEPPED BACK
AS SHOWN IF FELT SYSTEM
50mm BELOW CURB TOP

OPTIONAL INSULATED
UPSTAND 50mm WIDE x
150mm MINIMUM HEIGHT
ABOVE THE ROOF FINISH
CONSTRUCTED OF 32mm x
32mm TIMBER FRAMING
WITH 9mm MARINE PLY
INTERNALLY &
EXTERNALLY & POLYFOAM
RIGID INSULATION TO
BSEN13165 BY LONSDALE
OR TO DETAIL BY OTHERS

** MINIMUM 5 DEGREE FALL
OVER SHORTEST DIMENSION TO
FACILITATE DRAINAGE **



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

LMS

DATE

01/2015

DRG. No.

ECO-A2



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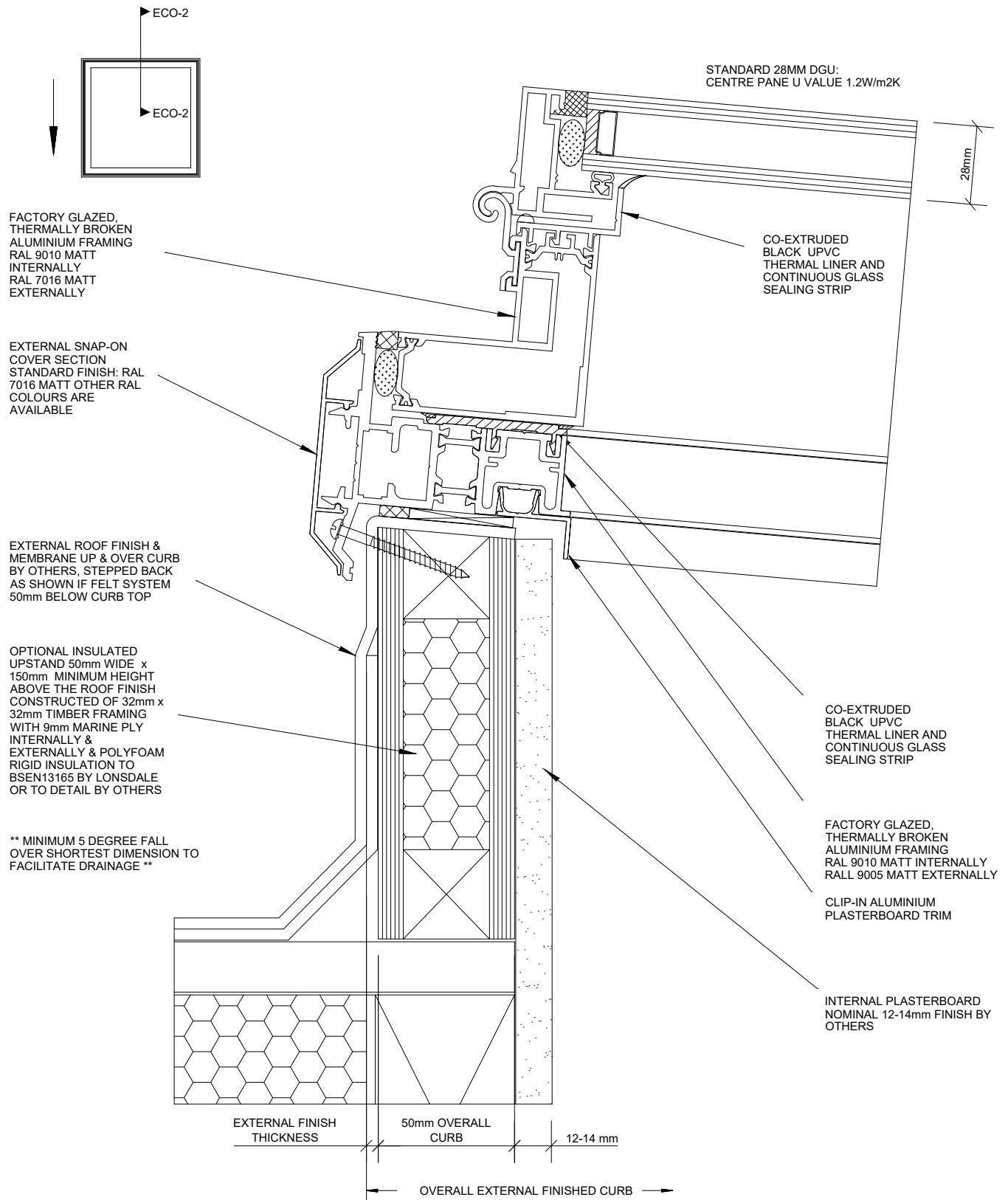
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

VERTICAL SECTION THROUGH
ROOFLIGHT FRAME AT TOP WITH 5
DEGREE PITCH ECOGARD FGR-LP

SCALE: 1:2 AT A4



PROJECT:

**TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT**

REV

DATE

DRAWN

LMS

DATE

01/2015

DRG. No.

ECO-A2V



LONSDALE METAL Co. LTD

London N17 9QU

TEL: 020 8801 4221 FAX: 020 8801 1287

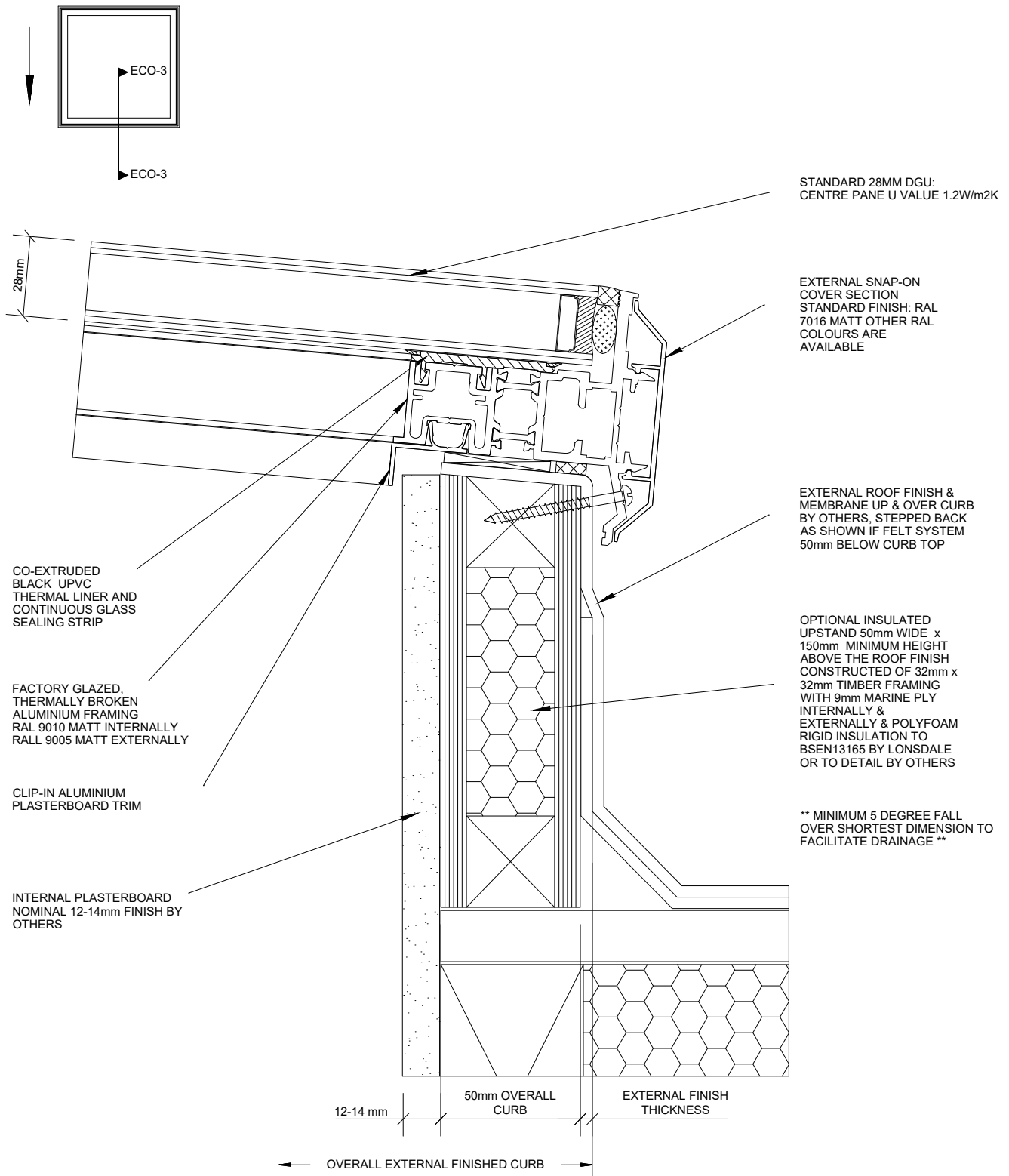
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

VERTICAL SECTION THROUGH
ROOFLIGHT FRAME ECOGARD FGR-F1
AT BOTTOM WITH 5 DEGREE PITCH

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2015

DRG. No.

ECO-A3



LONSDALE METAL Co. LTD

London N17 9QU

TEL: 020 8801 4221 FAX: 020 8801 1287

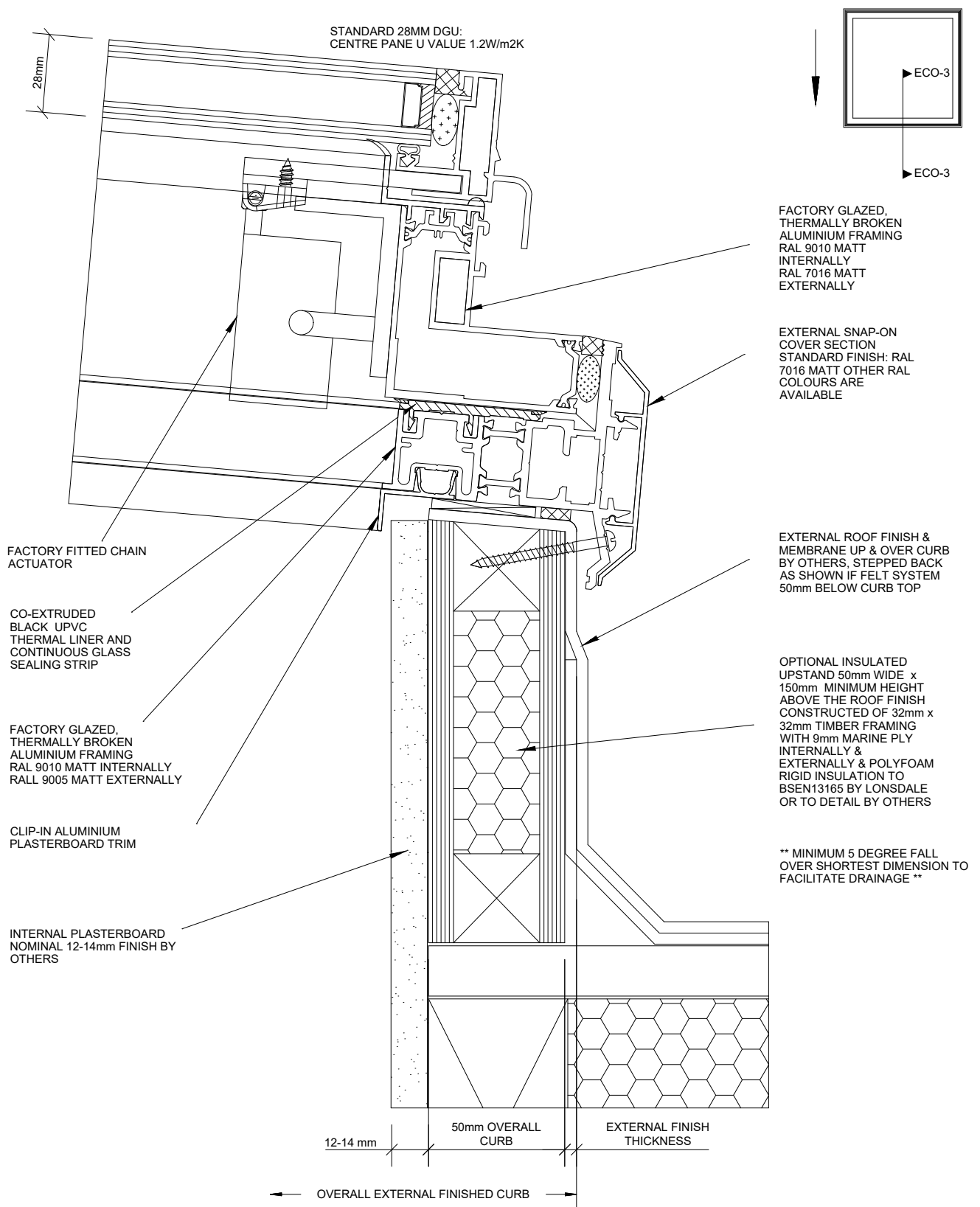
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

VERTICAL SECTION THROUGH
ROOFLIGHT FRAME ECOGARD FGR-LP
AT BOTTOM WITH 5 DEGREE PITCH

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2015

DRG. No.

ECO-A3V



LONSDALE METAL Co. LTD

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DRAWING TITLE:

VERTICAL SECTION THROUGH
ROOFLIGHT FRAME ECOGARD FGR-F1
ADAPTED CILL FOR WIDER CURBS

SCALE: 1:2 AT A4

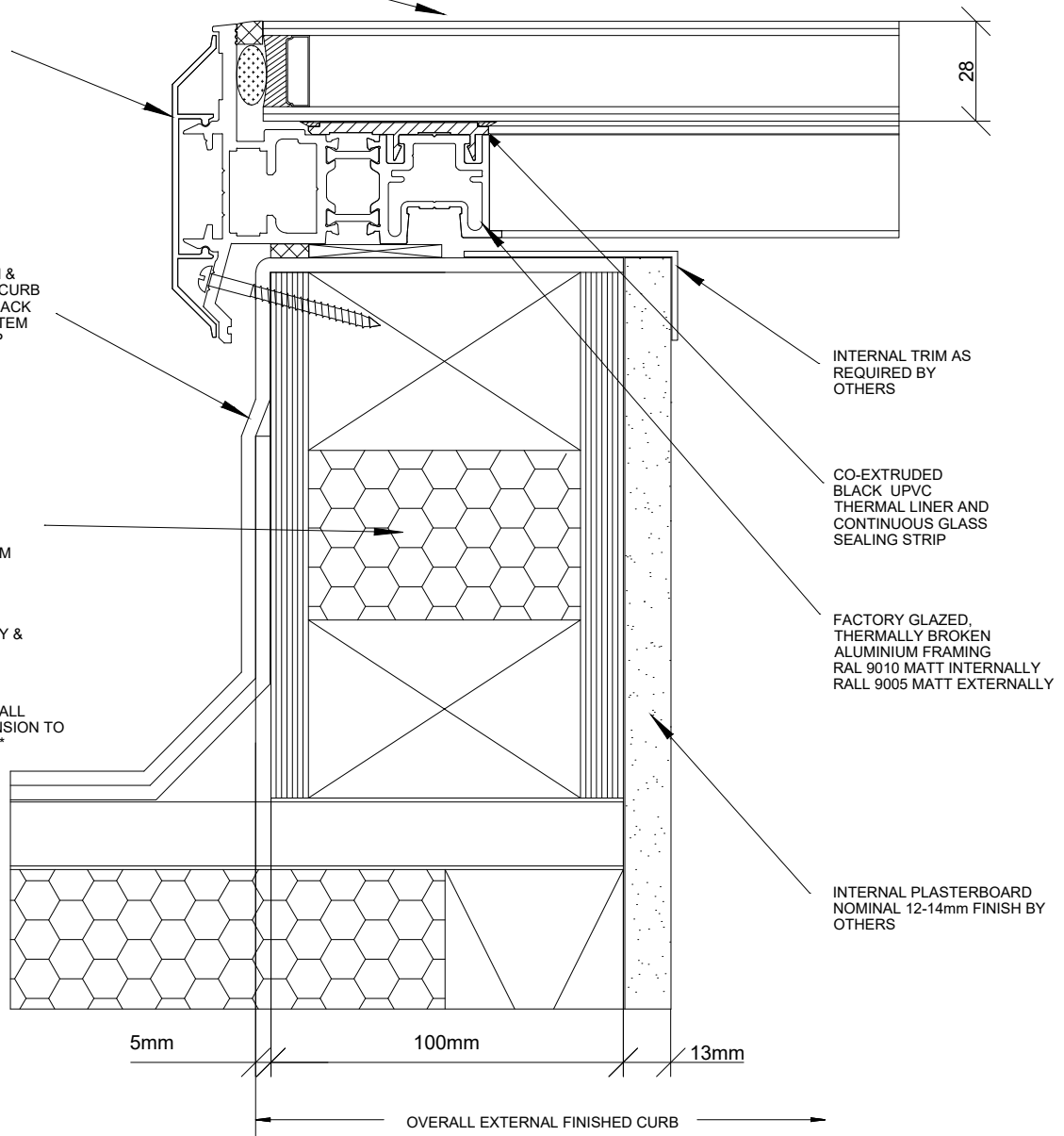
STANDARD 28MM DGU:
CENTRE PANE U VALUE 1.2W/m²K

EXTERNAL SNAP-ON
COVER SECTION
STANDARD FINISH: RAL
7016 MATT OTHER RAL
COLOURS ARE
AVAILABLE

EXTERNAL ROOF FINISH &
MEMBRANE UP & OVER CURB
BY OTHERS, STEPPED BACK
AS SHOWN IF FELT SYSTEM
50mm BELOW CURB TOP

100mm WIDE OVERALL
TIMBER INSULATED
UPSTAND CURB MINIMUM
150mm ABOVE ROOF
FINISH CONSTRUCTED
FROM 75 x 50 TIMBER
FRAMING WITH 12mm
MARINE PLY INTERNALLY &
EXTERNALLY

** MINIMUM 5 DEGREE FALL
OVER SHORTEST DIMENSION TO
FACILITATE DRAINAGE **



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

LMS

DATE

01/2015

DRG. No.

ECO-A4



LONSDALE METAL Co. LTD

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TEL: 020 8801 4221 FAX: 020 8801 1287

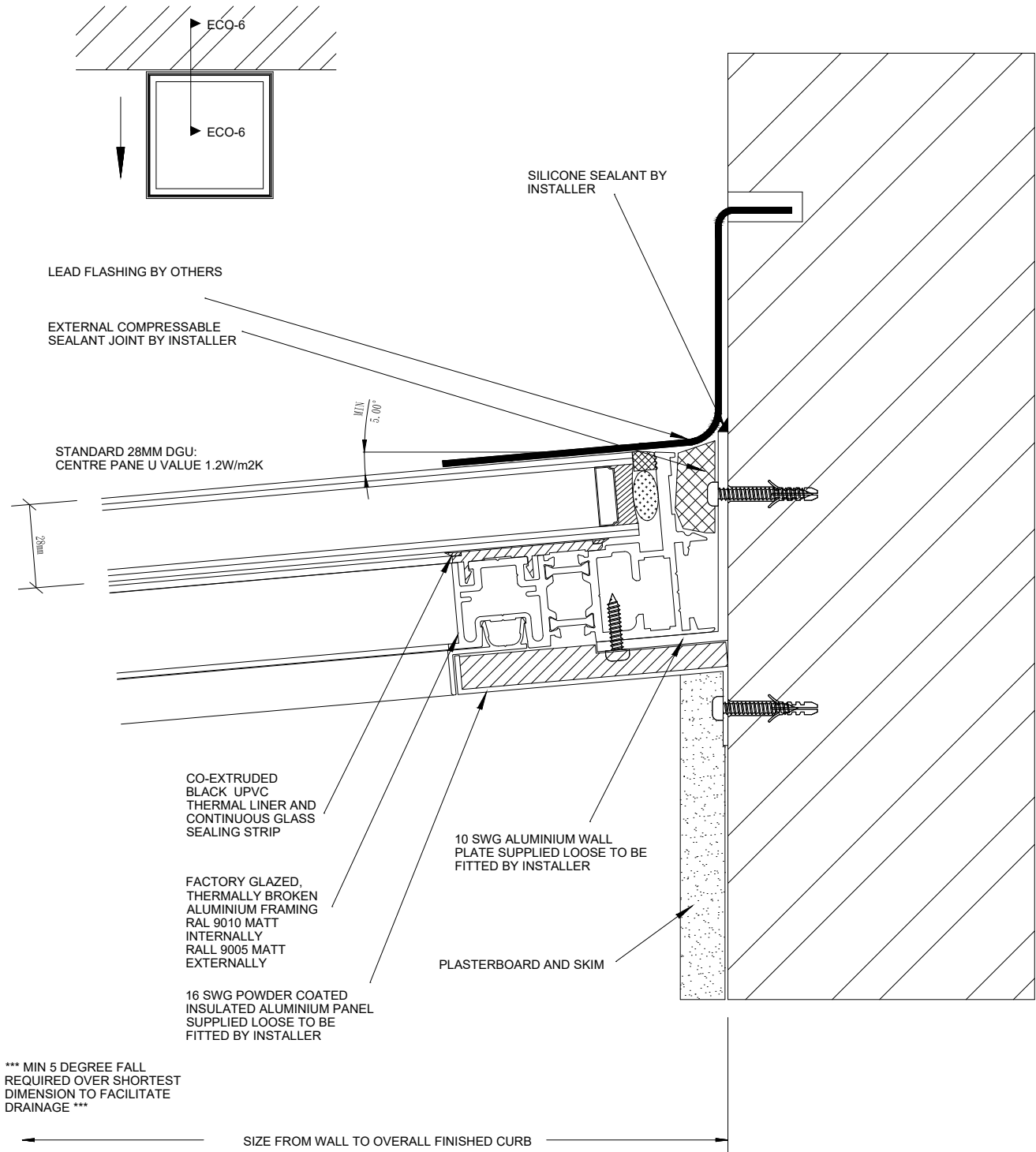
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**VERTICAL SECTION THROUGH
ROOFLIGHT ECOGARD FGR-F1 TOP WALL
JUNCTION AT 5 DEGREE PITCH**

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

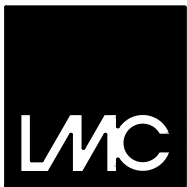
VM

DATE

01/2019

DRG. No.

ECO-A6 - 1



LONSDALE METAL Co. LTD

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TEL: 020 8801 4221 FAX: 020 8801 1287

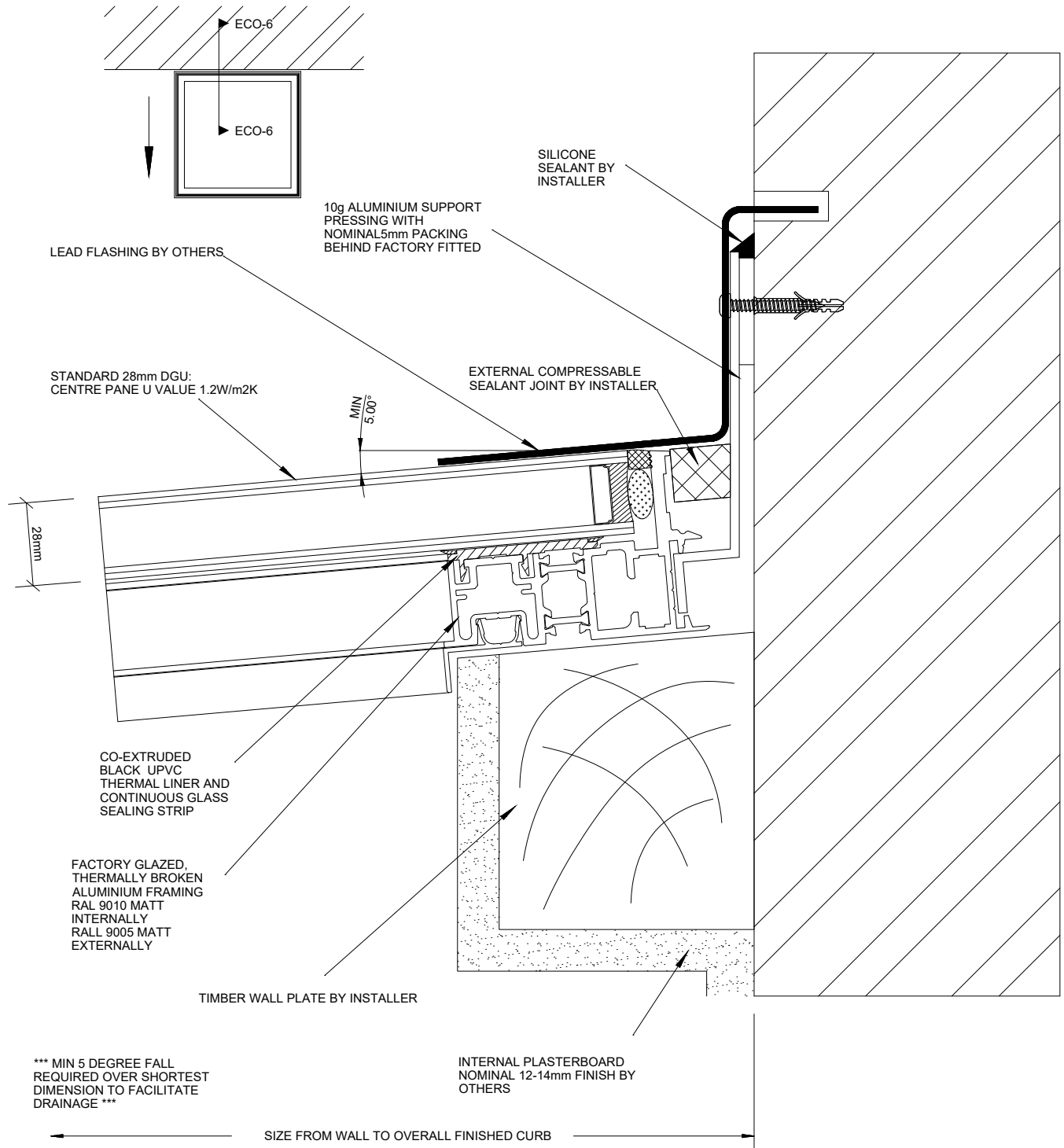
Email: info@lonsdalemetal.co.uk

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DRAWING TITLE:

**VERTICAL SECTION THROUGH
ROOFLIGHT ECOGARD FGR-F1 TOP WALL
JUNCTION AT 5 DEGREE PITCH**

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2019

DRG. No.

ECO-A6 - 2



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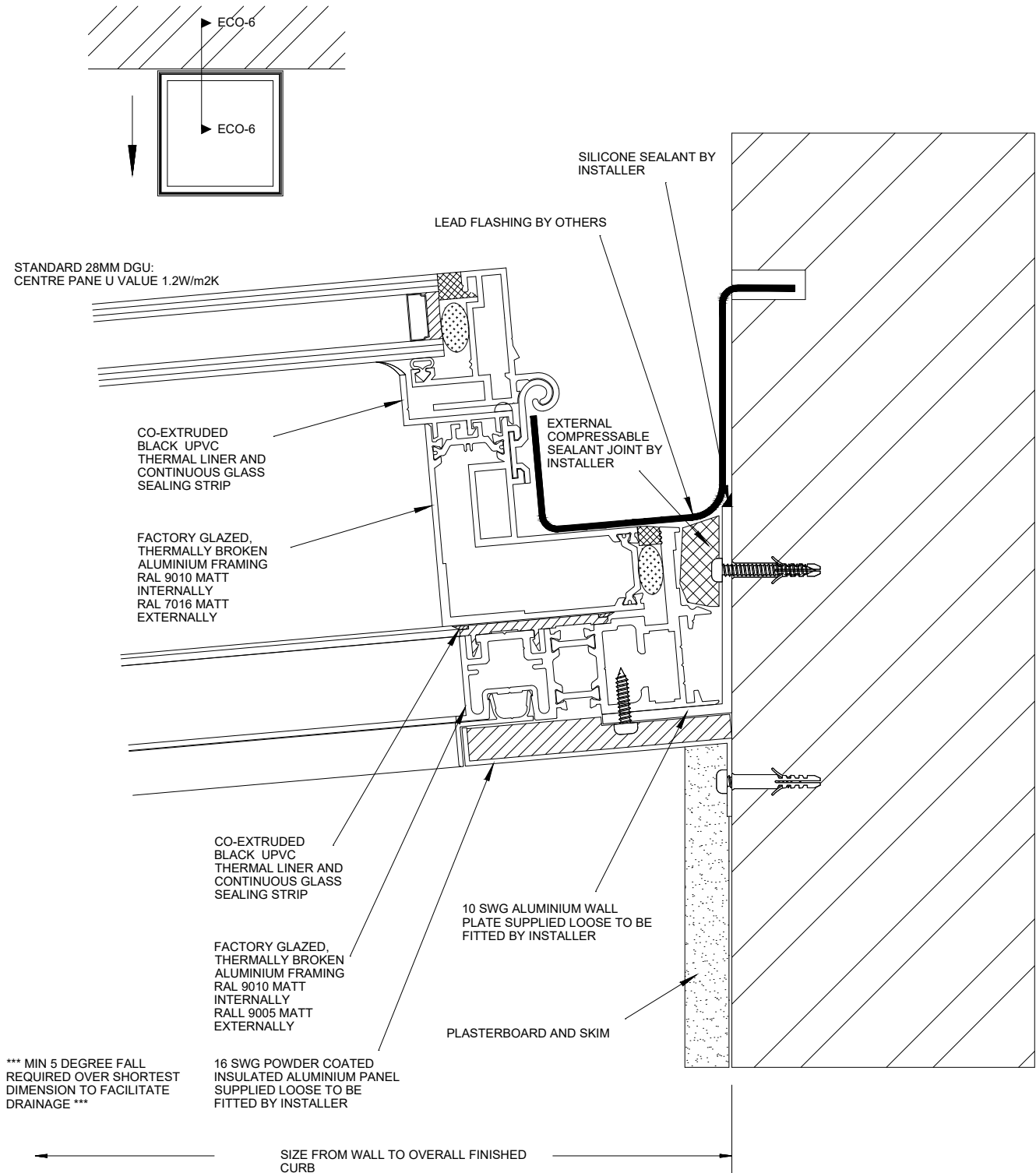
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**VERTICAL SECTION THROUGH
ROOFLIGHT ECOGARD FGR-F1 WITH VENT
TOP WALL JUNCTION**

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

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DATE

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DRG. No.

ECO-A6V - 1



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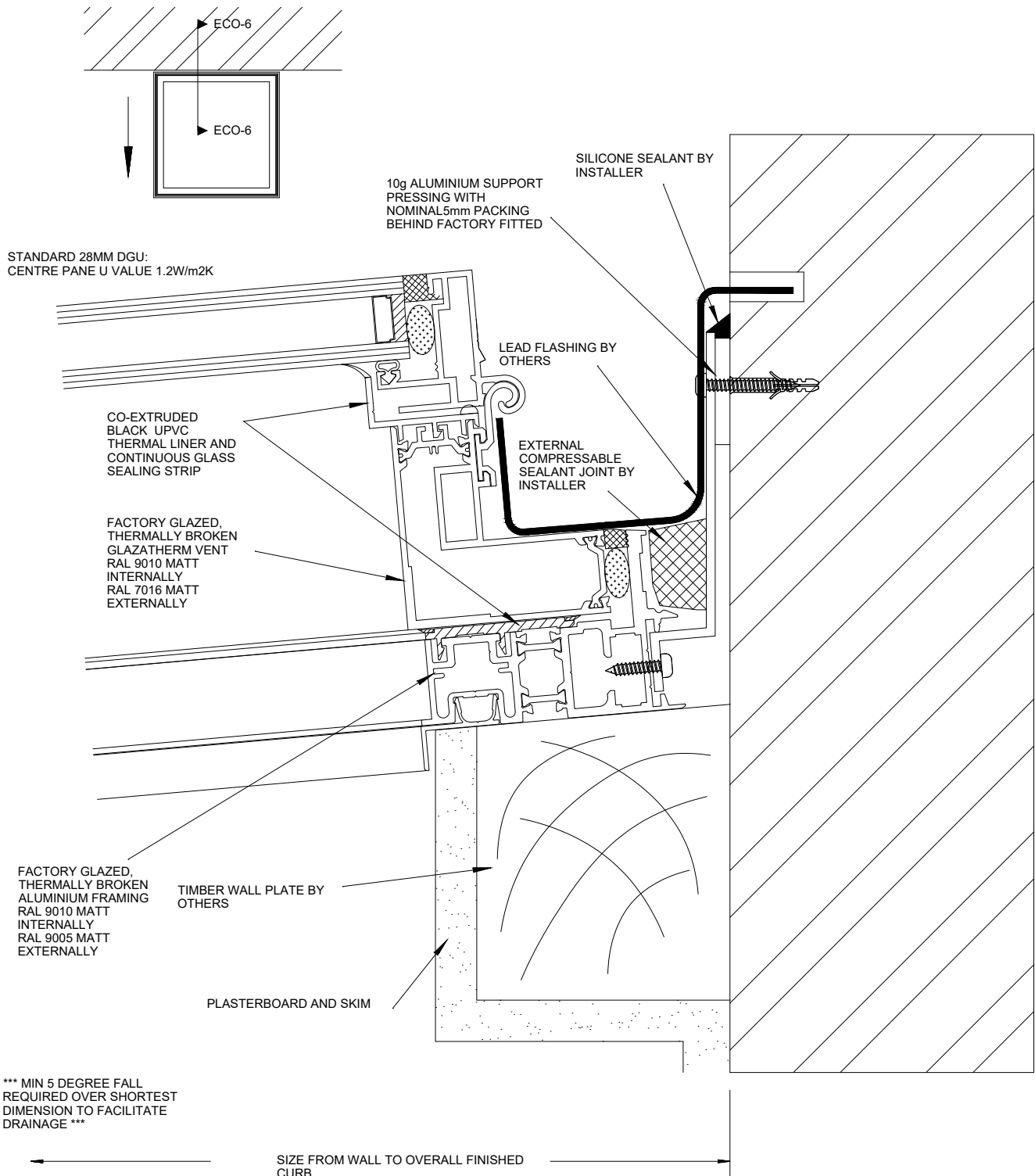
Email: info@lonsdalemetal.co.uk

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DRAWING TITLE:

**VERTICAL SECTION THROUGH
ROOFLIGHT ECOGARD FGR-F1 WITH VENT
TOP WALL JUNCTION**

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

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DRG. No.

ECO-A6V - 2



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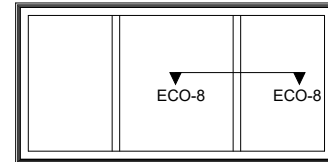
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**VERTICAL SECTION THROUGH A SINGLE
INTERMEDIATE RAFTER ECOGARD FGR-F1**

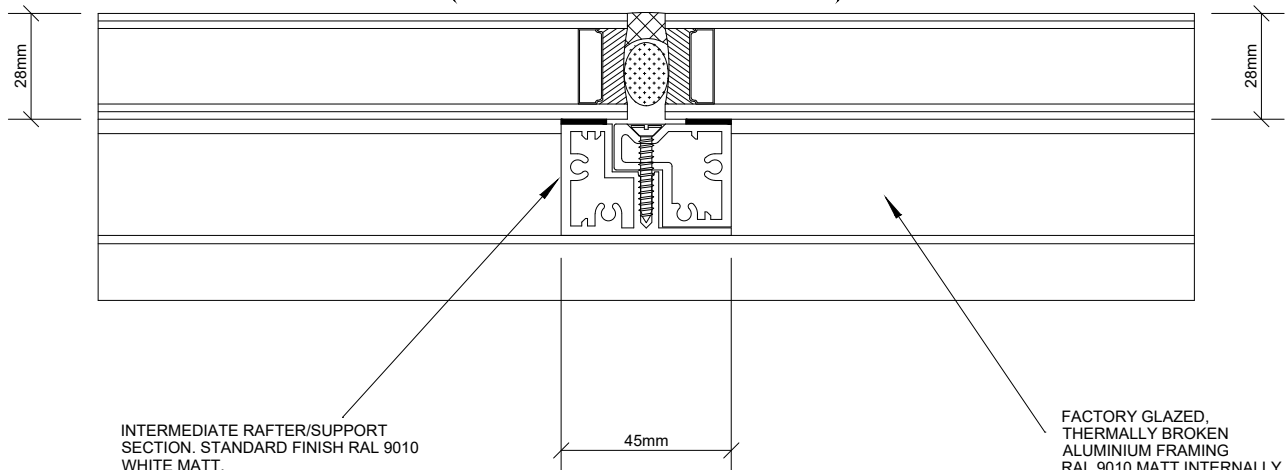
SCALE: 1:2 AT A4



STANDARD 28MM DGU:
CENTRE PANE U VALUE 1.2W/m²K

STANDARD 28MM DGU:
CENTRE PANE U VALUE 1.2W/m²K

8mm
BLACK
SILICONE
JOINT



INTERMEDIATE RAFTER/SUPPORT
SECTION. STANDARD FINISH RAL 9010
WHITE MATT.

FACTORY GLAZED,
THERMALLY BROKEN
ALUMINIUM FRAMING
RAL 9010 MATT INTERNALLY
RAL 9005 MATT EXTERNALLY
(REFER TO DRAWING
ECO-A1)

PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2019

DRG. No.

ECO-A8



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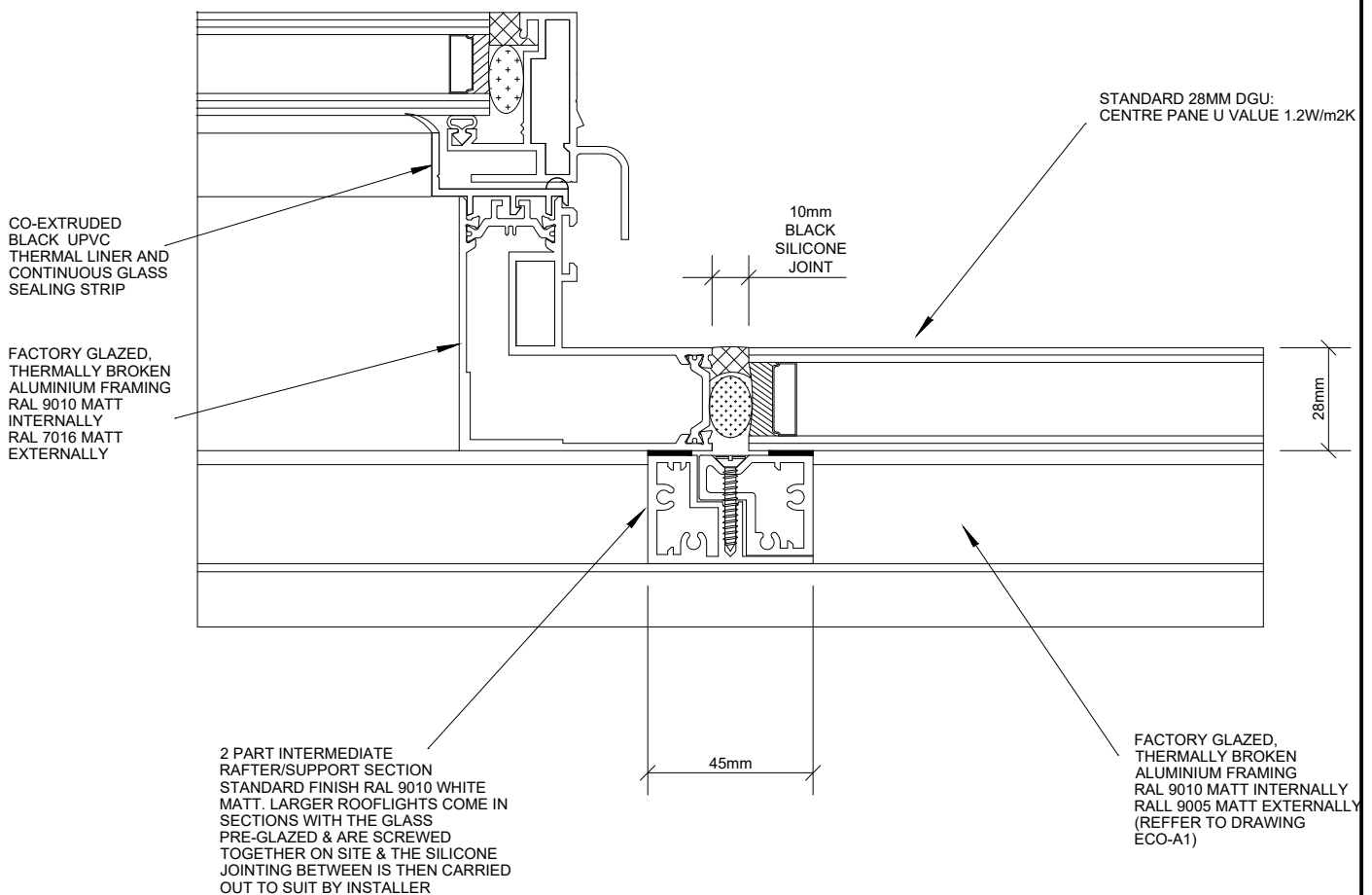
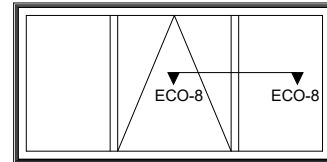
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**VERTICAL SECTION THROUGH
ECOGARD FGR-F1 INTERMEDIATE
RAFTER WITH VENT**

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2019

DRG. No.

ECO-A8V



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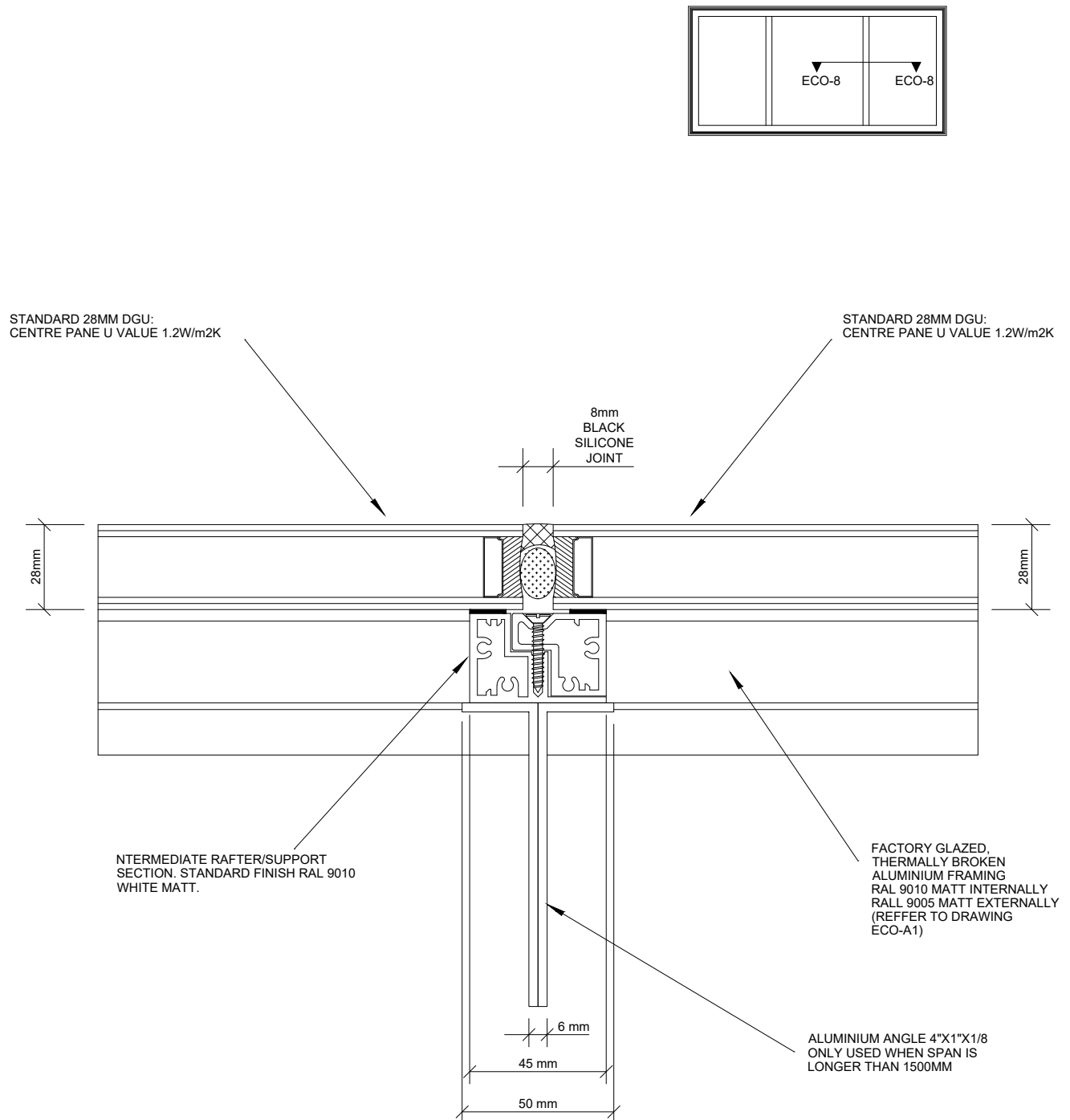
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**SECTION THROUGH A SINGLE ECOGARD
FGR-F1 INTERMEDIATE RAFTER WITH
REINFORCEMENT ANGLES**

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2019

DRG. No.

ECO-A23



LONSDALE METAL Co. LTD

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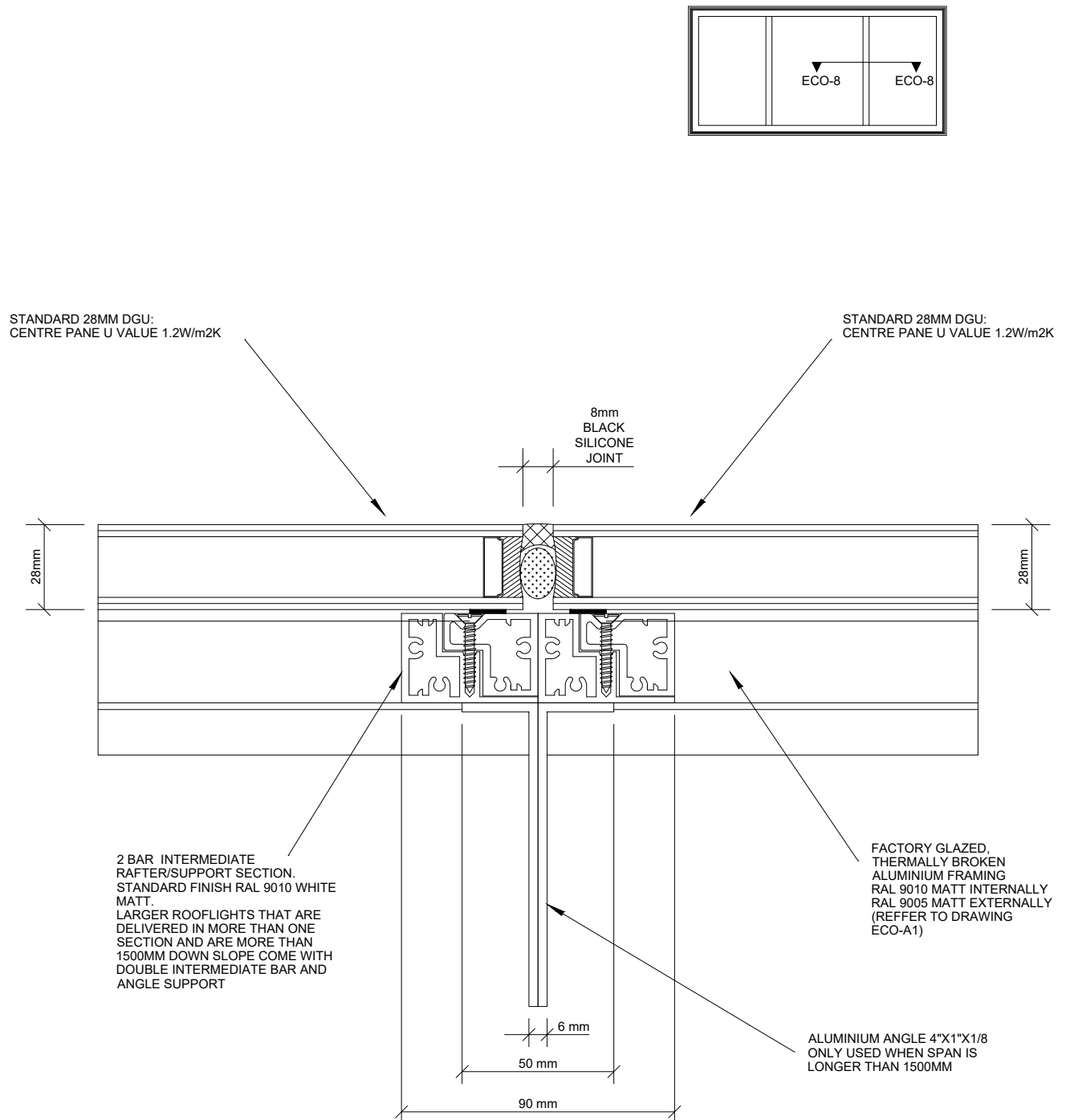
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**SECTION THROUGH ECOGARD FGR-F1
DOUBLE INTERMEDIATE RAFTER WITH
REINFORCEMENT ANGLES**

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2019

DRG. No.

ECO-A24



LONSDALE METAL Co. LTD

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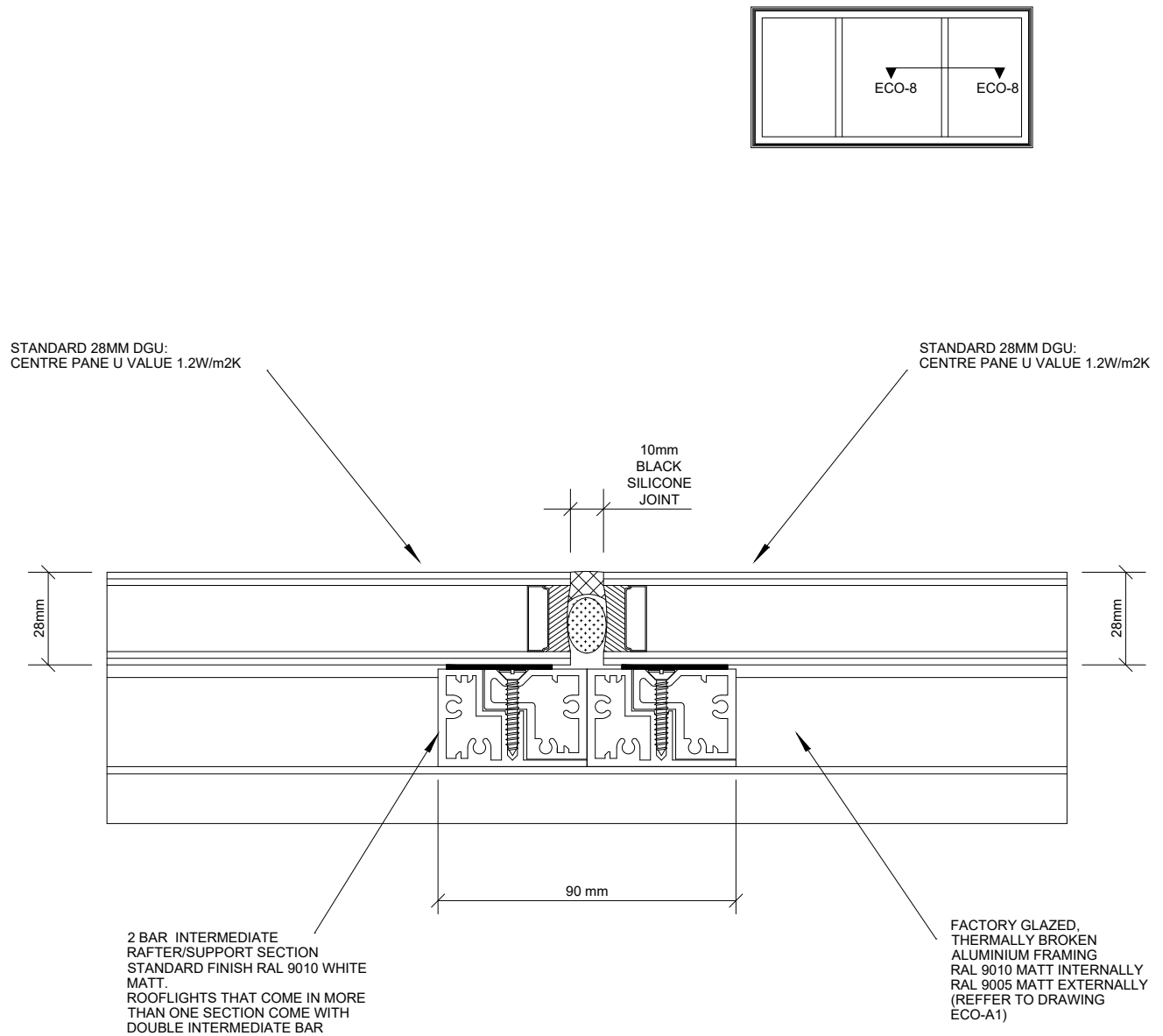
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**SECTION THROUGH ECOGARD FGR-F1
DOUBLE INTERMEDIATE RAFTER**

SCALE: 1:2 AT A4



PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

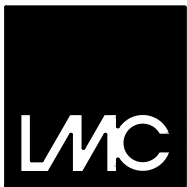
VM

DATE

01/2019

DRG. No.

ECO-A24a



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DRAWING TITLE:

**VERTICAL SECTION THROUGH
TRIPLE GLAZED ECOGARD FGR-F1
ROOFLIGHT FRAME**

SCALE: 1:2 AT A4

STANDARD 54MM DGU:
CENTRE PANE U VALUE 0.9W/m²K

EXTERNAL SNAP-ON
COVER SECTION
STANDARD FINISH: RAL
7016 GREY MATT
OTHER RAL COLOURS
ARE AVAILABLE

EXTERNAL ROOF FINISH &
MEMBRANE UP & OVER CURB
BY OTHERS, STEPPED BACK
AS SHOWN IF FELT SYSTEM
50mm BELOW CURB TOP

OPTIONAL INSULATED
UPSTAND 50mm WIDE x
150mm MINIMUM HEIGHT
ABOVE THE ROOF FINISH
CONSTRUCTED OF 32mm x
32mm TIMBER FRAMING
WITH 9mm MARINE PLY
INTERNALLY &
EXTERNALLY & POLYFOAM
RIGID INSULATION TO
BSEN13165 BY LONSDALE
OR TO DETAIL BY OTHERS

** MINIMUM 5 DEGREE FALL
OVER SHORTEST DIMENSION TO
FACILITATE DRAINAGE **

CO-EXTRUDED
BLACK UPVC
THERMAL LINER AND
CONTINUOUS GLASS
SEALING STRIP

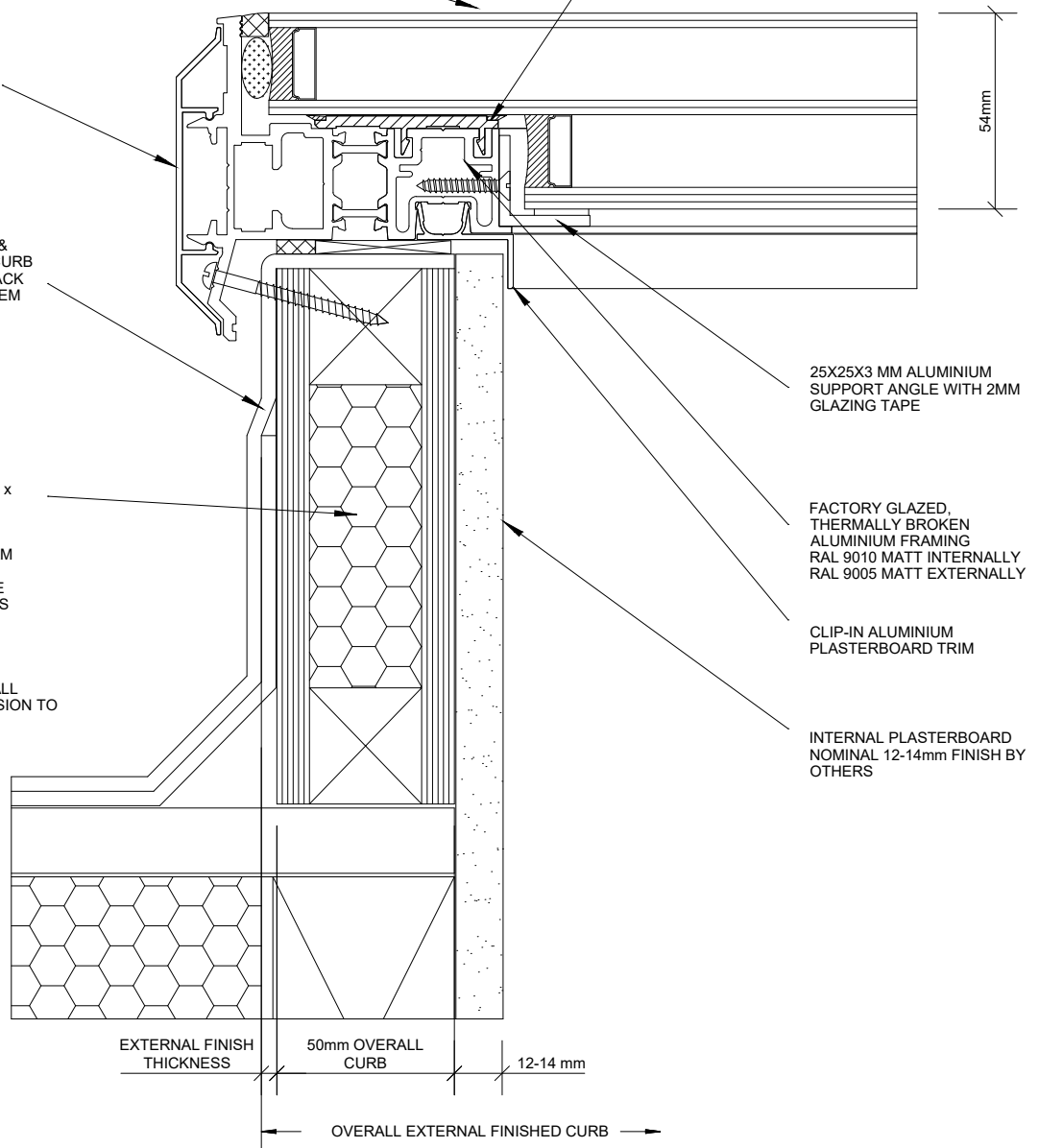
ECO-9 ECO-9

25X25X3 MM ALUMINIUM
SUPPORT ANGLE WITH 2MM
GLAZING TAPE

FACTORY GLAZED,
THERMALLY BROKEN
ALUMINIUM FRAMING
RAL 9010 MATT INTERNALLY
RAL 9005 MATT EXTERNALLY

CLIP-IN ALUMINIUM
PLASTERBOARD TRIM

INTERNAL PLASTERBOARD
NOMINAL 12-14mm FINISH BY
OTHERS



PROJECT:

**TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT**

REV

DATE

DRAWN

VM

DATE

01/2019

DRG. No.

ECO-A9



LONSDALE METAL Co. LTD

London N17 9QU

TEL: 020 8801 4221 FAX: 020 8801 1287

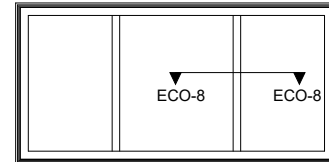
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

**SECTION THROUGH ECOGARD FGR-F1
INTERMEDIATE WALK-ON RAFTER**

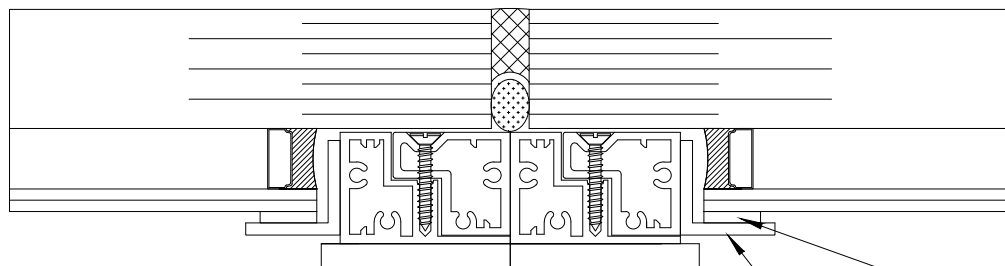
SCALE: 1:2 AT A4



HEAT SOAKED AND TOUGHENED
LAMINATED OUTER PANE, 16MM
ARGON CAVITY, SUPER LOW-E
TOUGHENED INNER PANE

HEAT SOAKED AND TOUGHENED
LAMINATED OUTER PANE, 16MM
ARGON CAVITY, SUPER LOW-E
TOUGHENED INNER PANE

10mm
BLACK
SILICONE
JOINT



GLAZING TAPE

25X25X3 ALUMINIUM ANGLE

TO BE SET AT
300MM C/C
THROUGHOUT THE
LENGTH

M8 AZ-70

50X100X6.35 ALUMINIUM
ANGLE

M8 AZ-70

21.8

50

**UNIFORM DISTRIBUTED
LOAD MAX 2500 N/m²**

**CONCENTRATED LOAD
MAX 2000 N**

PROJECT:

TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT

REV

DATE

DRAWN

VM

DATE

01/2019

DRG. No.

ECO-A25



LONSDALE METAL Co. LTD

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www.lonsdalemetal.co.uk

DRAWING TITLE:

**VERTICAL SECTION THROUGH
WALK-ON OUTER ECOGARD FGR-F1
ROOFLIGHT FRAME**

SCALE: 1:2 AT A4

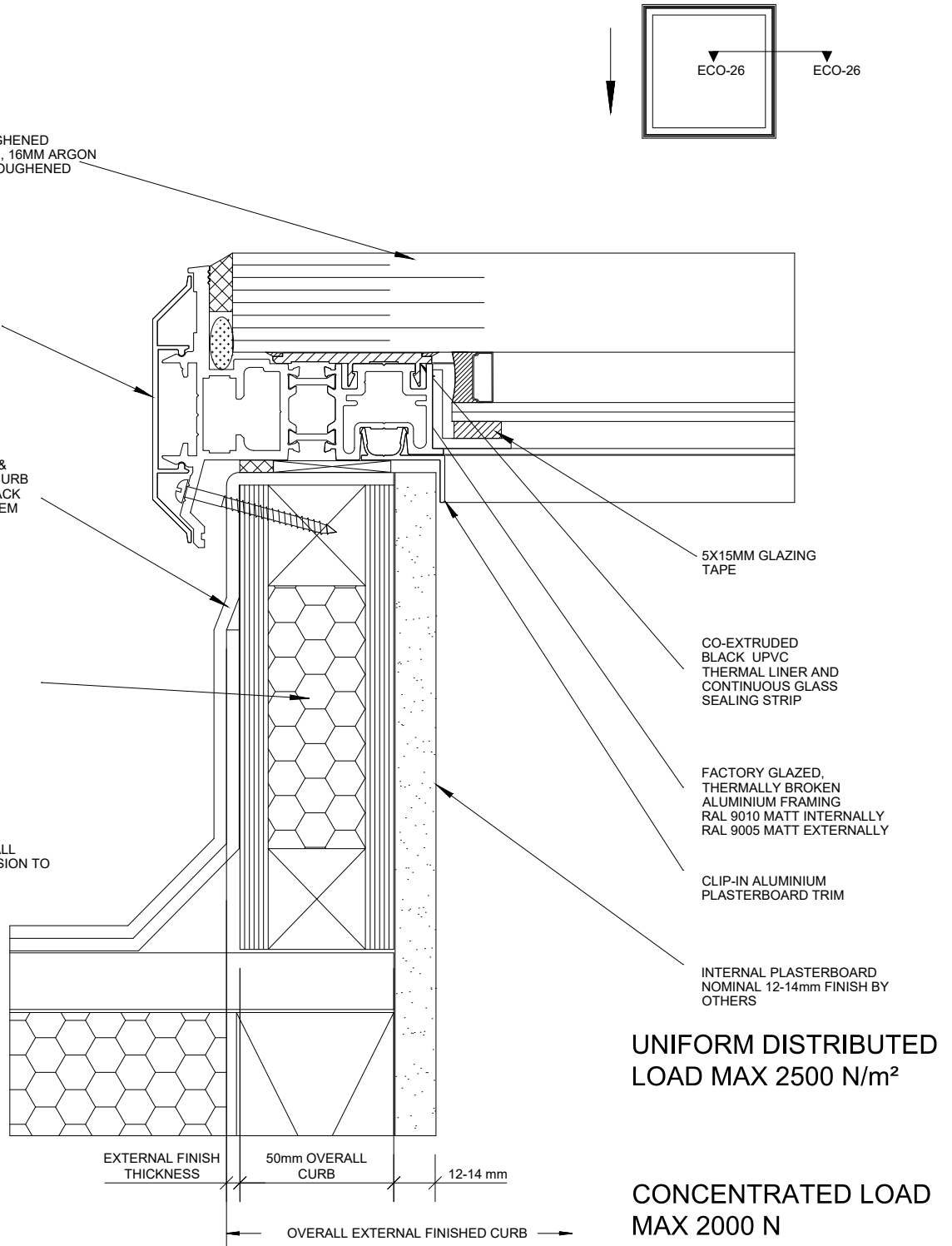
HEAT SOAKED AND TOUGHENED
LAMINATED OUTER PANE, 16MM ARGON
CAVITY, SUPER LOW-E TOUGHENED
INNER PANE

EXTERNAL SNAP-ON
COVER SECTION
STANDARD FINISH: RAL
7016 MATT OTHER RAL
COLOURS ARE
AVAILABLE

EXTERNAL ROOF FINISH &
MEMBRANE UP & OVER CURB
BY OTHERS, STEPPED BACK
AS SHOWN IF FELT SYSTEM
50mm BELOW CURB TOP

UPSTAND 50mm WIDE x
150mm MINIMUM HEIGHT
ABOVE THE ROOF FINISH
BY OTHERS

** MINIMUM 5 DEGREE FALL
OVER SHORTEST DIMENSION TO
FACILITATE DRAINAGE **



PROJECT:

**TECHNICAL CATALOGUE DETAIL
ECOGARD ROOFLIGHT**

REV

DATE

DRAWN

VM

DATE

01/2019

DRG. No.

ECO-A26



LONSDALE METAL Co. LTD

London N17 9QU

TEL: 020 8801 4221 FAX: 020 8801 1287

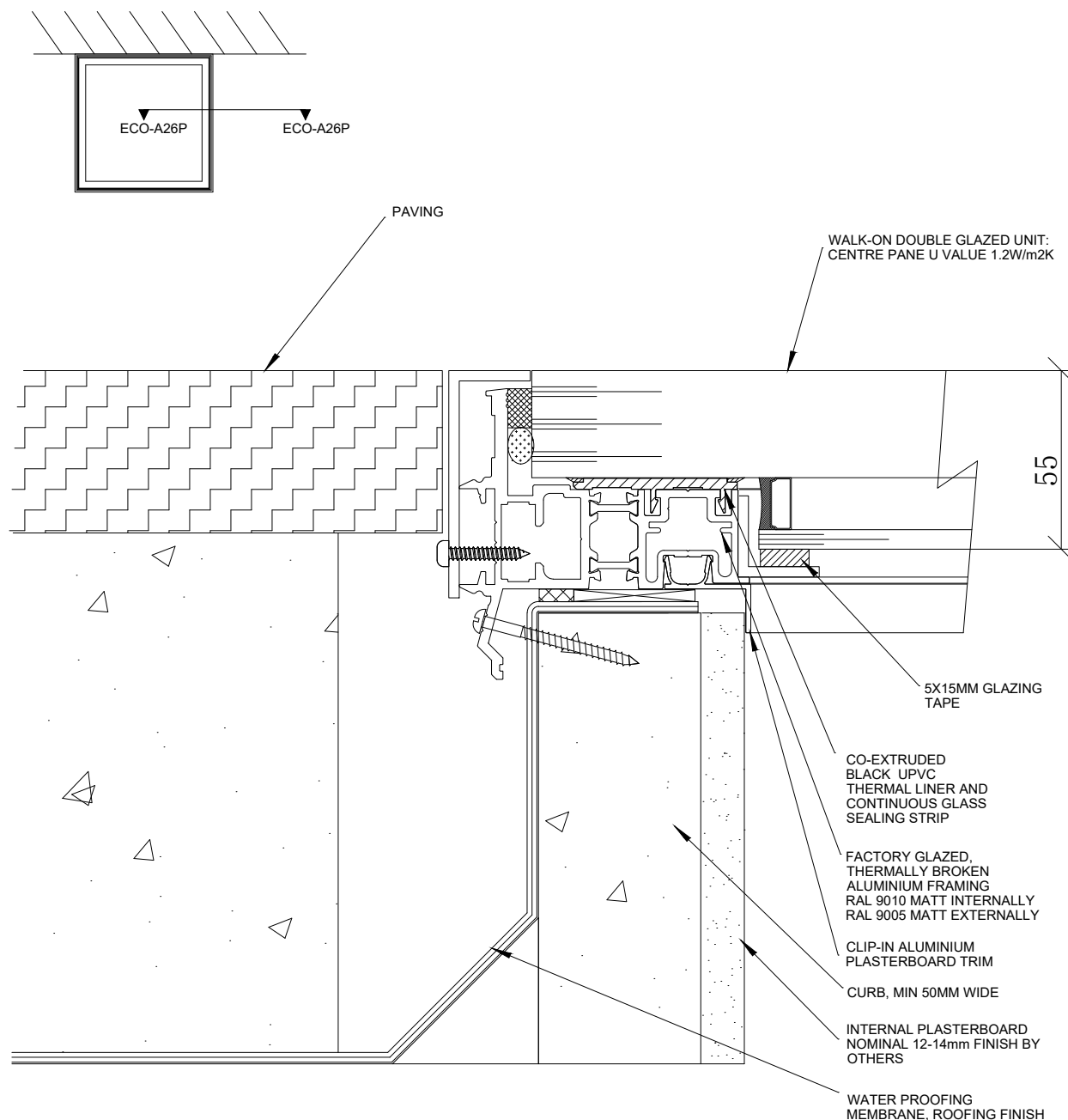
Email: info@lonsdalemetal.co.uk

www.lonsdalemetal.co.uk

DRAWING TITLE:

VERTICAL SECTION THROUGH
WLAK-ON ECOGARD ROOFLIGHT SIDE
DETAIL

SCALE: 1:2 AT A4



CONCENTRATED LOAD MUST NOT EXCEED 3600 N AND UNIFORM
DISTRIBUTED LOAD MUST NOT EXCEED 5000 N/m²

PROJECT: TECHNICAL CATALOGUE DETAIL ECOGARD ROOFLIGHT	REV	DATE		DRAWN	VM
				DATE	11/2019
				DRG. No.	ECO-A26P