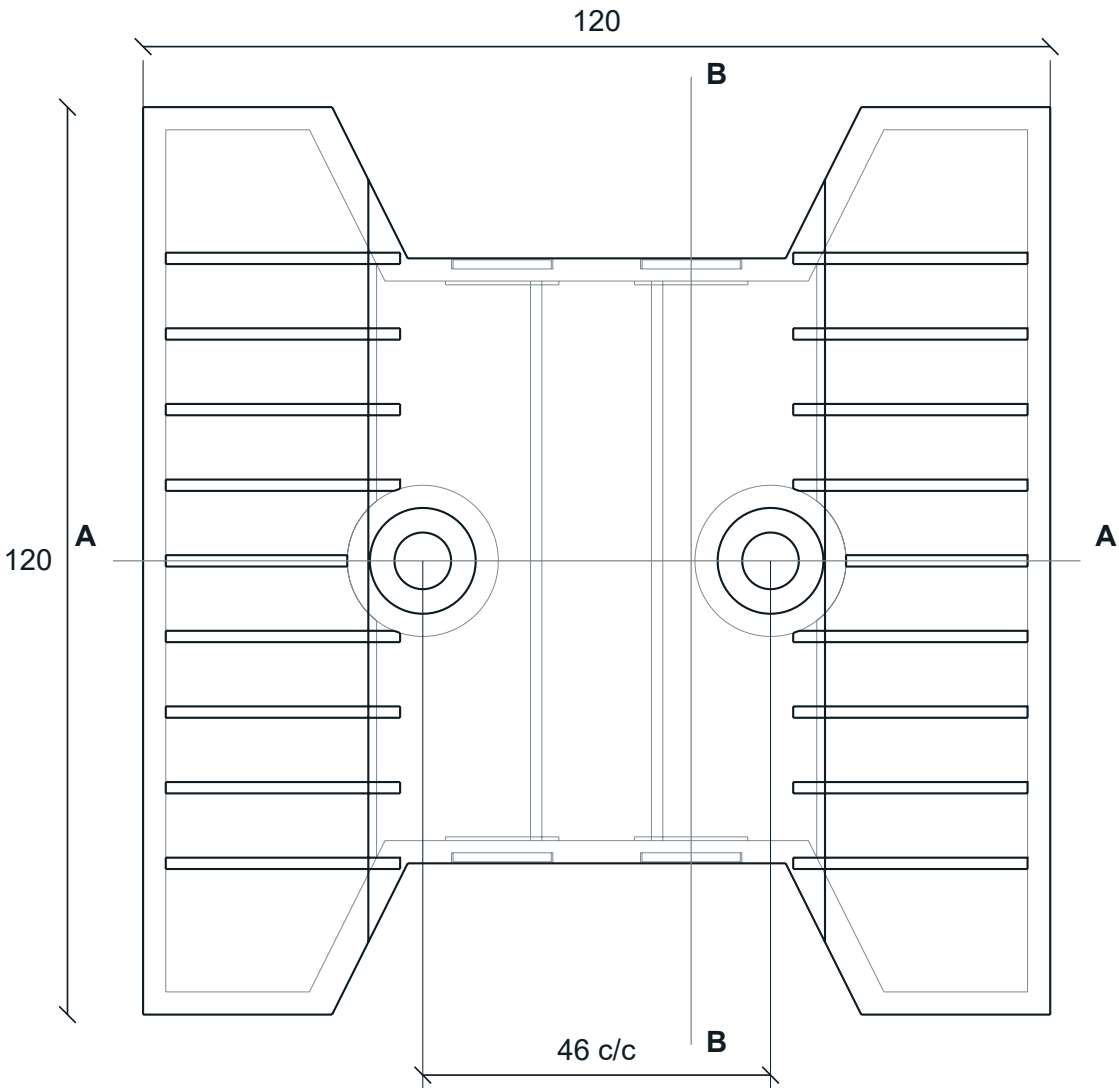


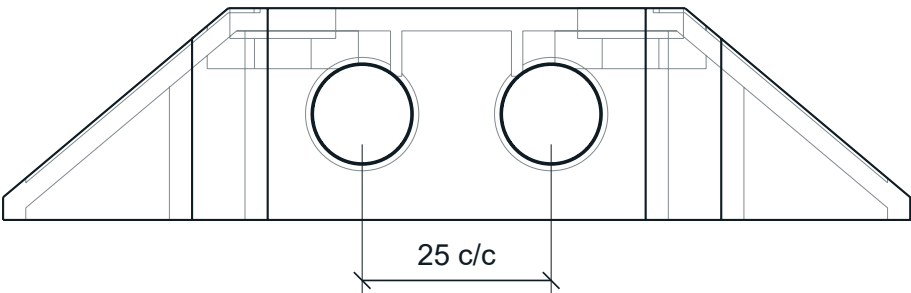
PASSIVE ROAD STUD / ALUMINIUM

TI-D3-AL-R03 / General arrangement

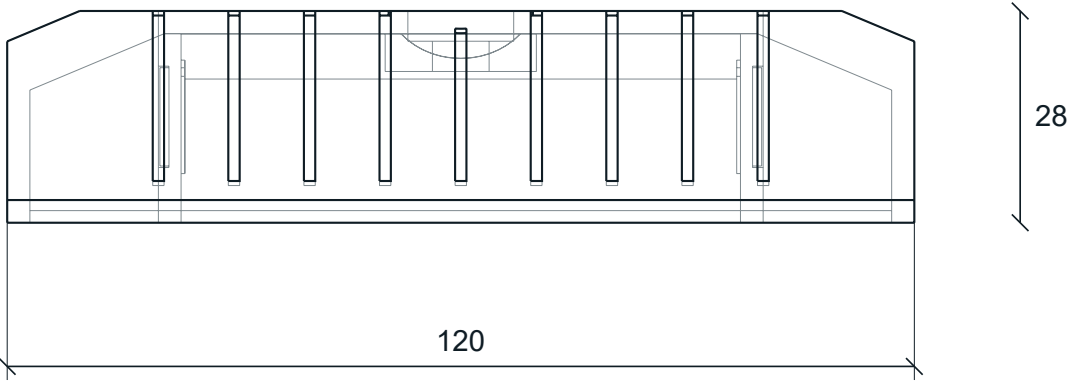
TOP / 1:1



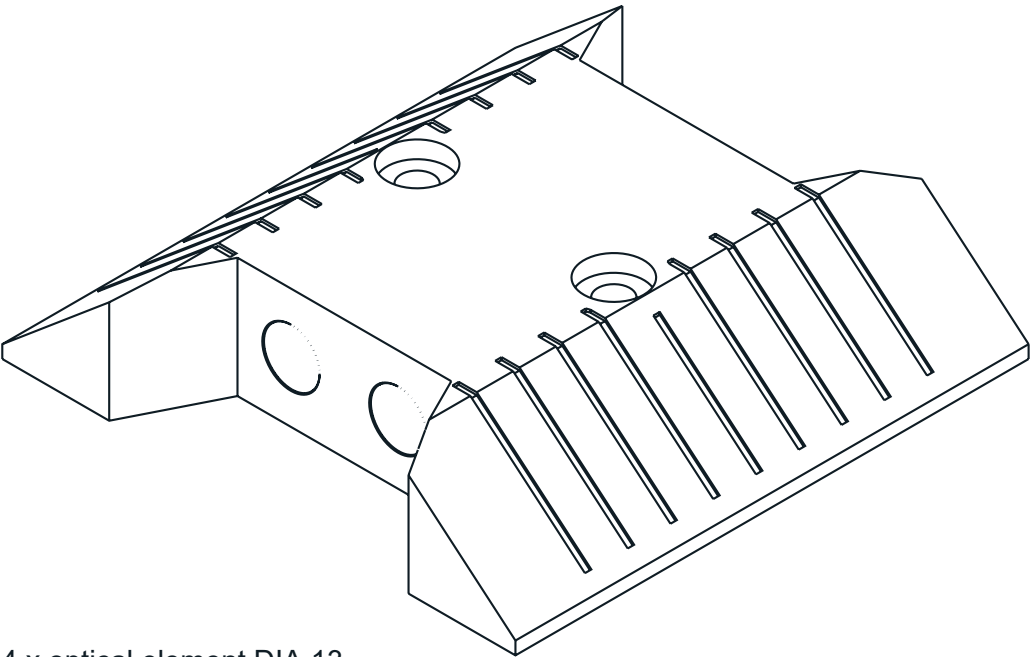
FRONT / 1:1



SIDE / 1:1



ISOMETRIC / 4:5



4 x optical element DIA 13
2 x fixing bore DIA 7.5

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Four optical elements, two fixing bores.



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General arrangement

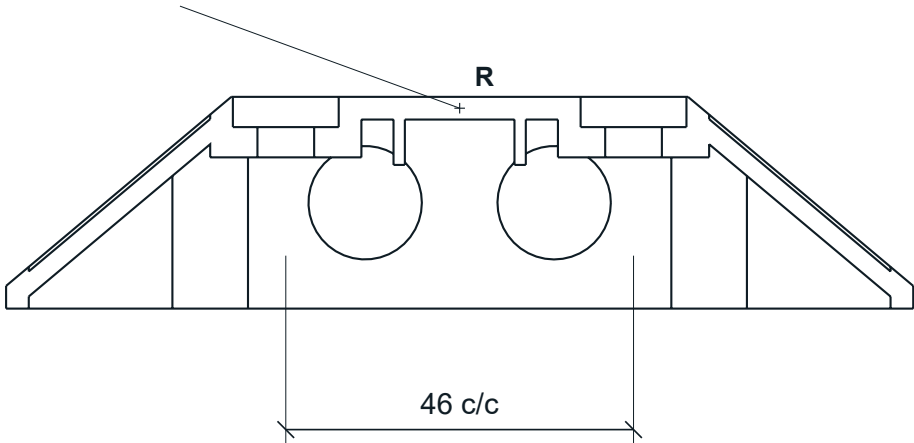
DRAWING TI-D3-AL-R03	REVISION R03	SCALE As shown	SHEET 1/3
DATE 2026-10-09	UNIT mm	PAPER A3	LANGUAGE EN

PASSIVE ROAD STUD / ALUMINIUM

TI-D3-AL-R03 / Sections and external profiles

A-A / Y=0 / 1:1

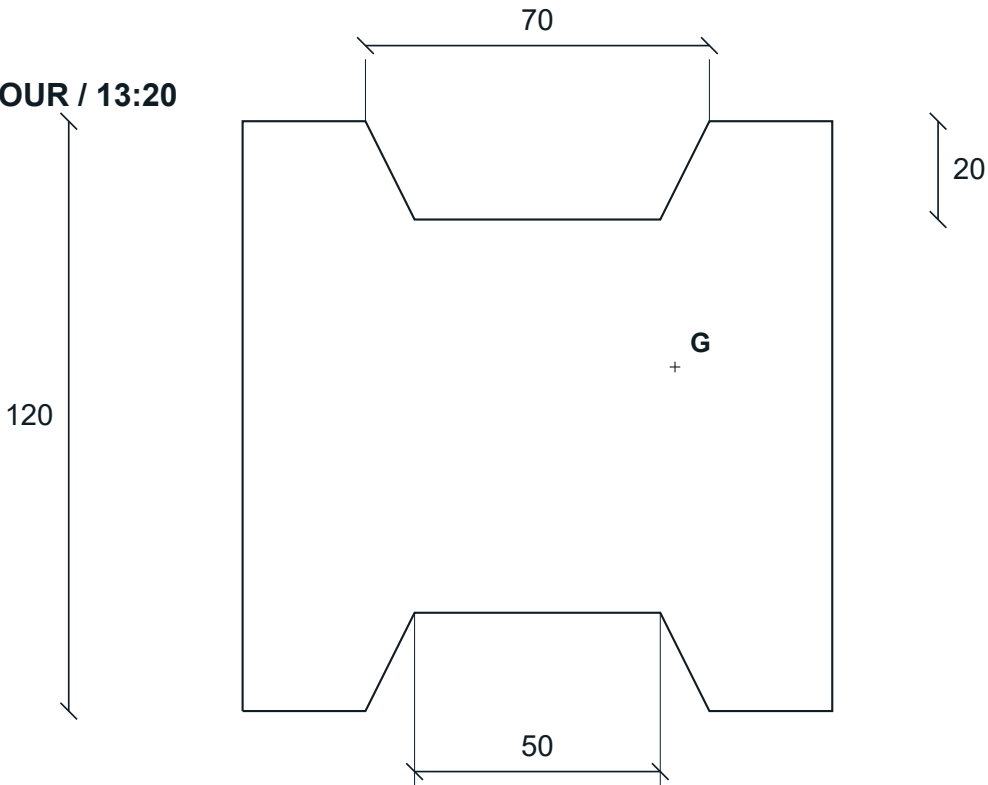
R: roof 3 at X=0, Y=0



2 x DIA 7.5 through; DIA 14 counterbore

Counterbore depth 4 at fixing centre

PLAN CONTOUR / 13:20



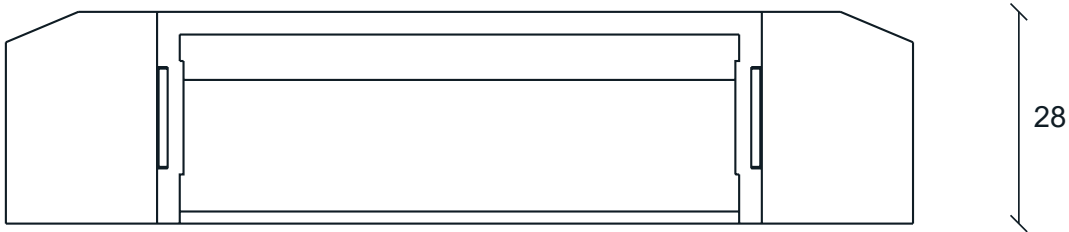
G: grooved roof 2.4 at X=28, Y=10

Fixing row 60 from either full-width edge

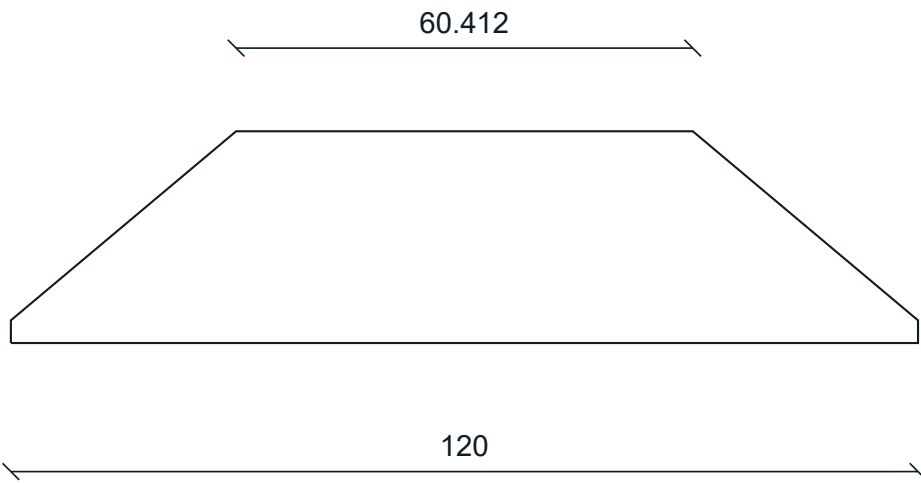
Section A-A passes through both fixing bores.

Section B-B passes through the optical centres.

B-B / X=12.5 / 1:1



RAMP PROFILE / 1:1



Ramp 50 deg from vertical / 40 deg from horizontal

Wing edge 3 high; total height 28

Shoulders X=+/-35 and +/-25; recess Y=+/-40



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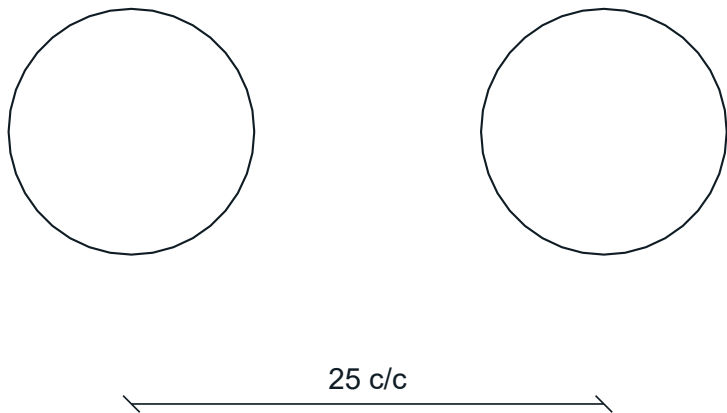
Sections and external profiles

DRAWING	REVISION	SCALE	SHEET
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DATE	UNIT	PAPER	LANGUAGE
2026-10-09	mm	A3	EN

PASSIVE ROAD STUD / ALUMINIUM

TI-D3-AL-R03 / Optical and fixing details

OPTICAL PAIR / 5:2



DIA 13 each; 4 elements total

OPTICAL / HOUSING DIMENSIONS

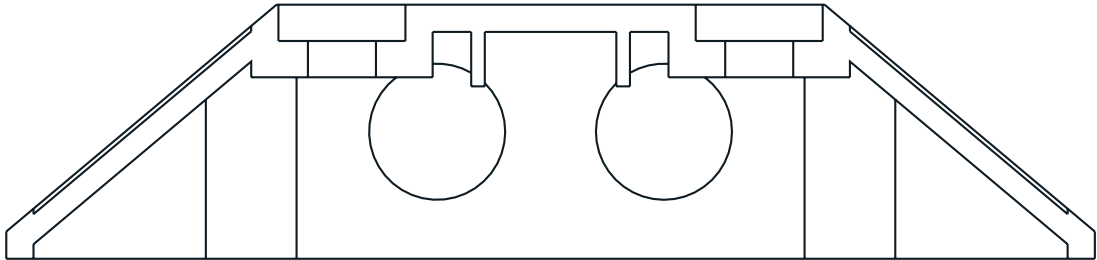
Optical mounting datum Z	14
Optical plane (deg)	90
Optical thickness	1.2
Face inset	0.2
Pocket diameter	13.4
Pocket depth	1.4
Backing diameter	15
Backing depth	3.5
Roof R / X=0, Y=0	3
Roof G / X=28, Y=10	2.4
Rib width / height	1.5 / 6

All linear dimensions in mm. Detail dimensions apply symmetrically.

Optical element seats against pocket backing; radial clearance 0.2.

Two fixing positions. Fixing hardware supplied to project specification.

FIXING SECTION / 6:5



DIA 14 seat / DIA 20 backing boss

Seat depth 4 at centre; boss lower datum below

FIXING / SURFACE DIMENSIONS

Seat dia / centre depth	14 / 4
Boss diameter / bottom Z	20 / 20
Seat floor Z	24.000
Groove width / depth	1.5 / 0.6
Groove pitch	10
Groove X limits	26 to 57
Groove rows Y	-40 to40 / pitch 10
Recess depth	20
Shoulder X datums	+/-35 / +/-25
Ramp upper X datum	+/-30.206



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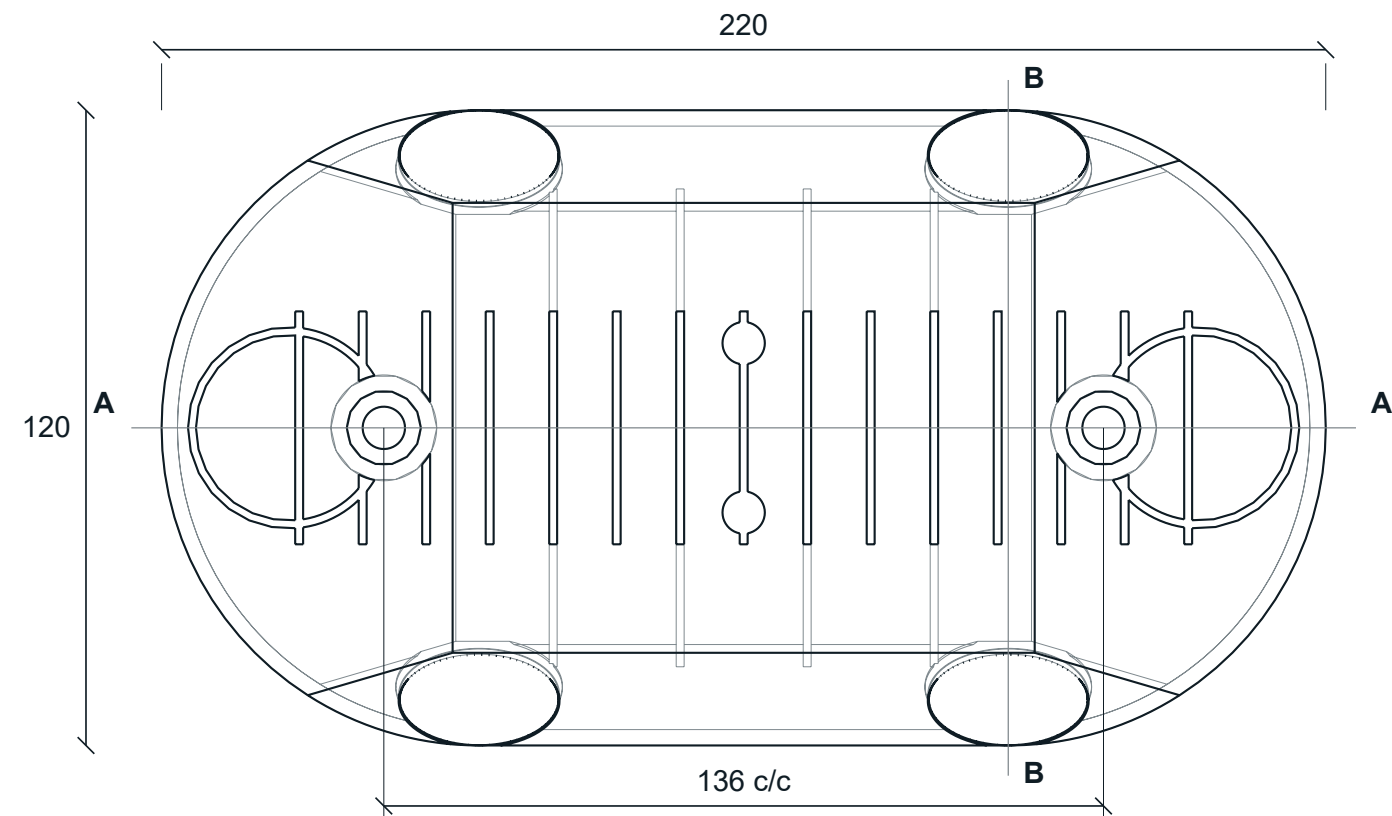
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Optical and fixing details			
DRAWING	REVISION	SCALE	SHEET
TI-D3-AL-R03	R03	As shown	3/3
DATE	UNIT	PAPER	LANGUAGE
2026-10-09	mm	A3	EN

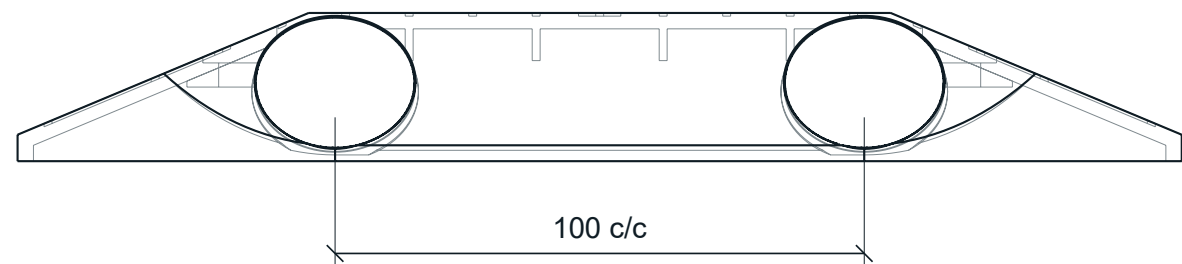
PASSIVE ROAD STUD / PPC

TI-D3-PPC-R03 / General arrangement

TOP / 7:10



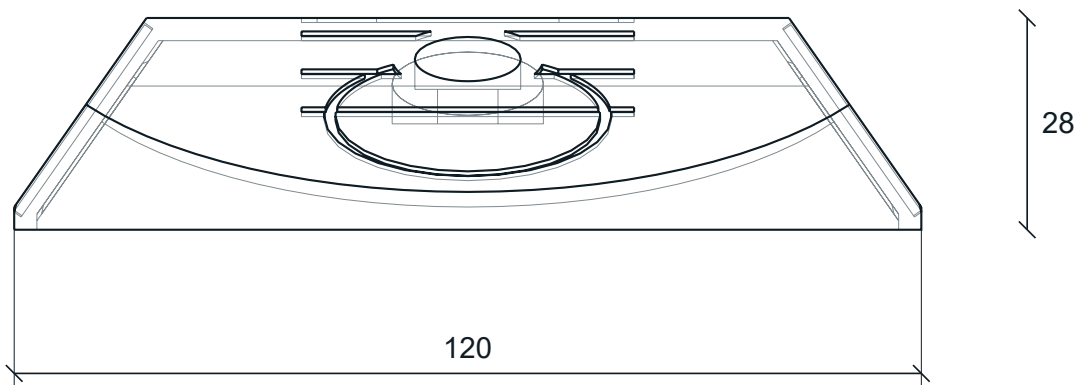
FRONT / 7:10



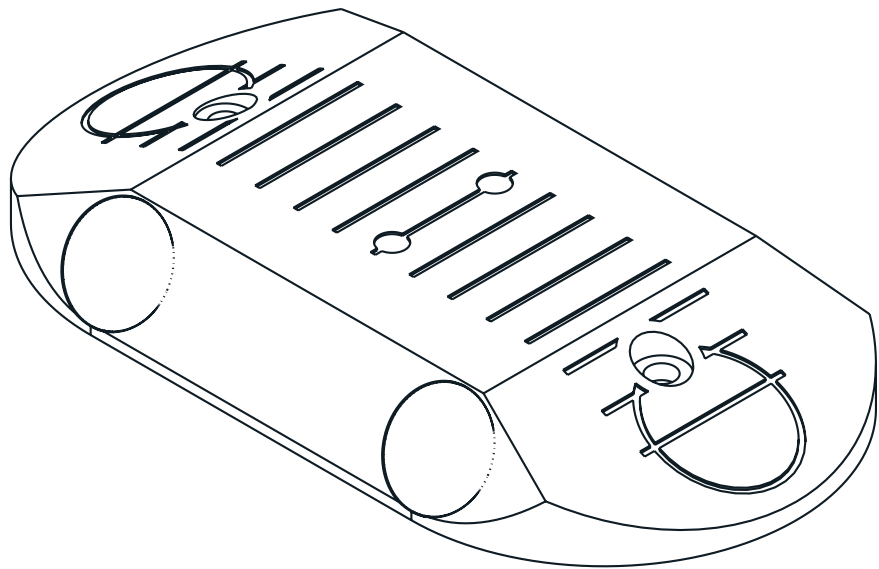
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Four optical elements, two fixing bores.

SIDE / 1:1



ISOMETRIC / 3:5



4 x optical element DIA 30

2 x fixing bore DIA 8



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General arrangement

DRAWING TI-D3-PPC-R03	REVISION R03	SCALE As shown	SHEET 1/3
DATE 2026-10-09	UNIT mm	PAPER A3	LANGUAGE EN

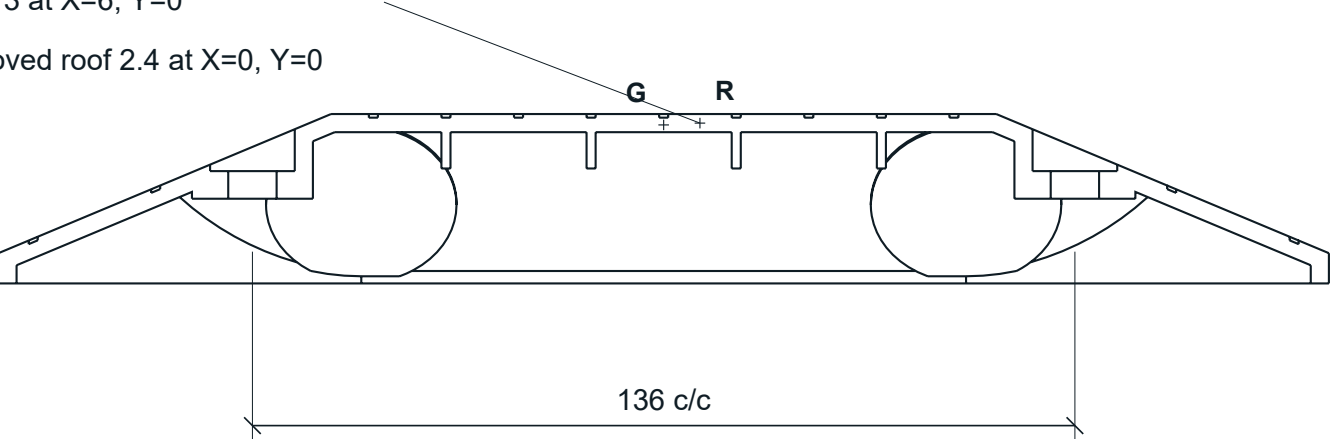
PASSIVE ROAD STUD / PPC

TI-D3-PPC-R03 / Sections and external profiles

A-A / Y=0 / 4:5

R: roof 3 at X=6, Y=0

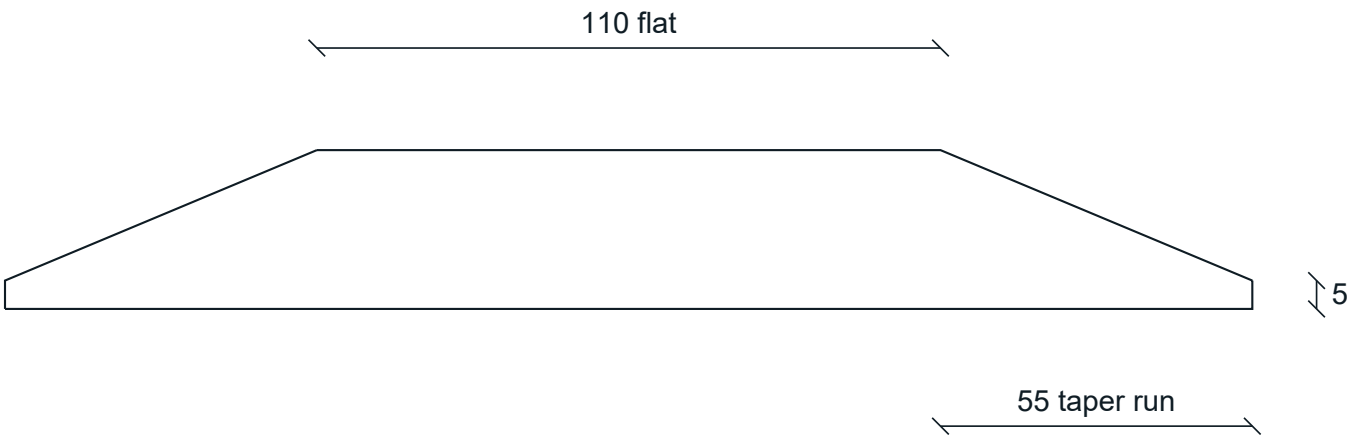
G: grooved roof 2.4 at X=0, Y=0



2 x DIA 8 through; DIA 14 counterbore

Counterbore depth 4 at fixing centre

LONGITUDINAL PROFILE / 3:4



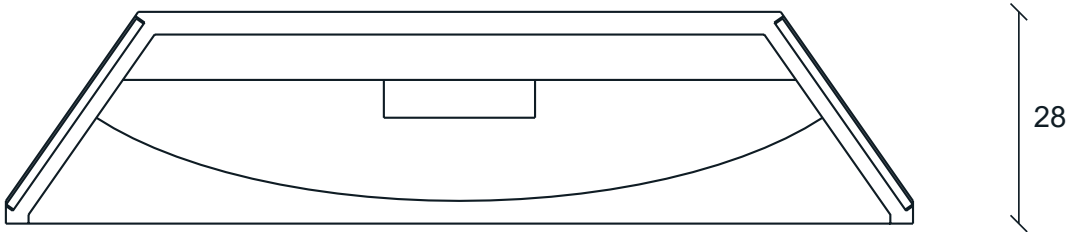
End 5 high; centre 28 high; rise 23 over run 55

Symmetric about X=0 and Y=0.

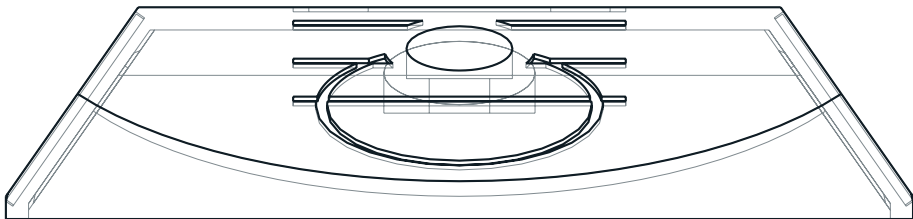
Section A-A passes through both fixing bores.

Section B-B passes through the optical centres.

B-B / X=50 / 1:1



TRANSVERSE / OPTIC PROFILE



Optical mounting plane 55 deg from horizontal

Side edge 3 high; top half-width 42.495

Capsule end radius 60; end centres X=+/-50

Fixing roof Z=22.564 at X=+/-68



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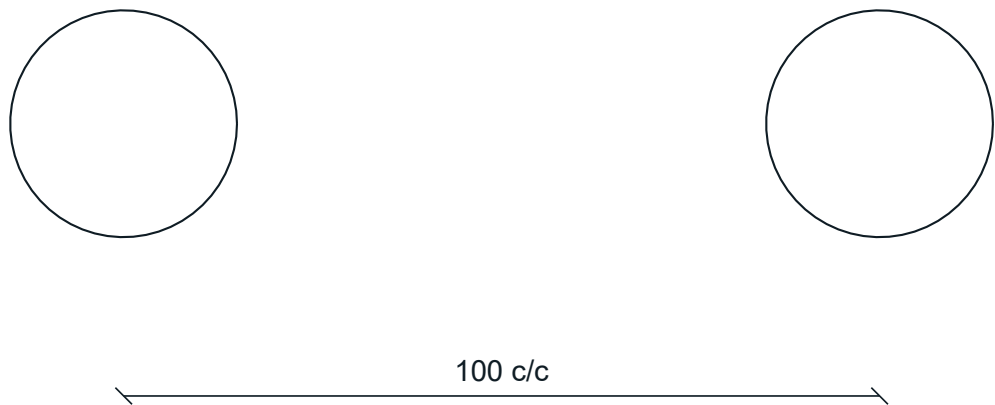
Sections and external profiles

DRAWING TI-D3-PPC-R03	REVISION R03	SCALE As shown	SHEET 2/3
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PASSIVE ROAD STUD / PPC

TI-D3-PPC-R03 / Optical and fixing details

OPTICAL PAIR / 1:1



DIA 30 each; 4 elements total

OPTICAL / HOUSING DIMENSIONS

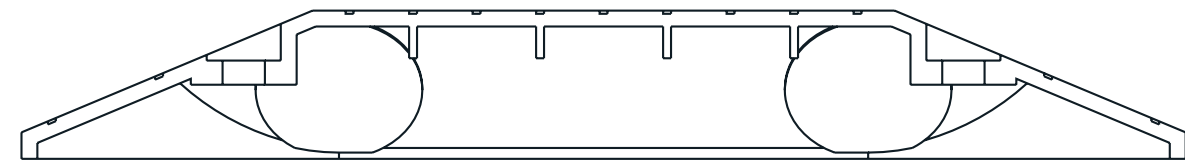
Optical mounting datum Z	15
Optical plane (deg)	55
Optical thickness	1.2
Face inset	0.3
Pocket diameter	30.4
Pocket depth	1.5
Backing diameter	31.5
Backing depth	3.5
Roof R / X=6, Y=0	3
Roof G / X=0, Y=0	2.4
Rib width / height	1.5 / 6

All linear dimensions in mm. Detail dimensions apply symmetrically.

Optical element seats against pocket backing; radial clearance 0.2.

Two fixing positions. Fixing hardware supplied to project specification.

FIXING SECTION / 7:10



DIA 14 seat / DIA 20 backing boss

Seat depth 4 at centre; boss lower datum below

FIXING / SURFACE DIMENSIONS

Seat dia / centre depth	14 / 4
Boss diameter / bottom Z	20 / 14
Seat floor Z	18.564
Groove width / depth	1.5 / 0.6
Groove pitch	12
Groove Y limits	+/-22
End ring centres X	+/-86
End ring radii	19 / 17.5
Centre relief radius	4
Centre relief Y	+/-16



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Optical and fixing details			
DRAWING	REVISION	SCALE	SHEET
TI-D3-PPC-R03	R03	As shown	3/3
DATE	UNIT	PAPER	LANGUAGE
2026-10-09	mm	A3	EN