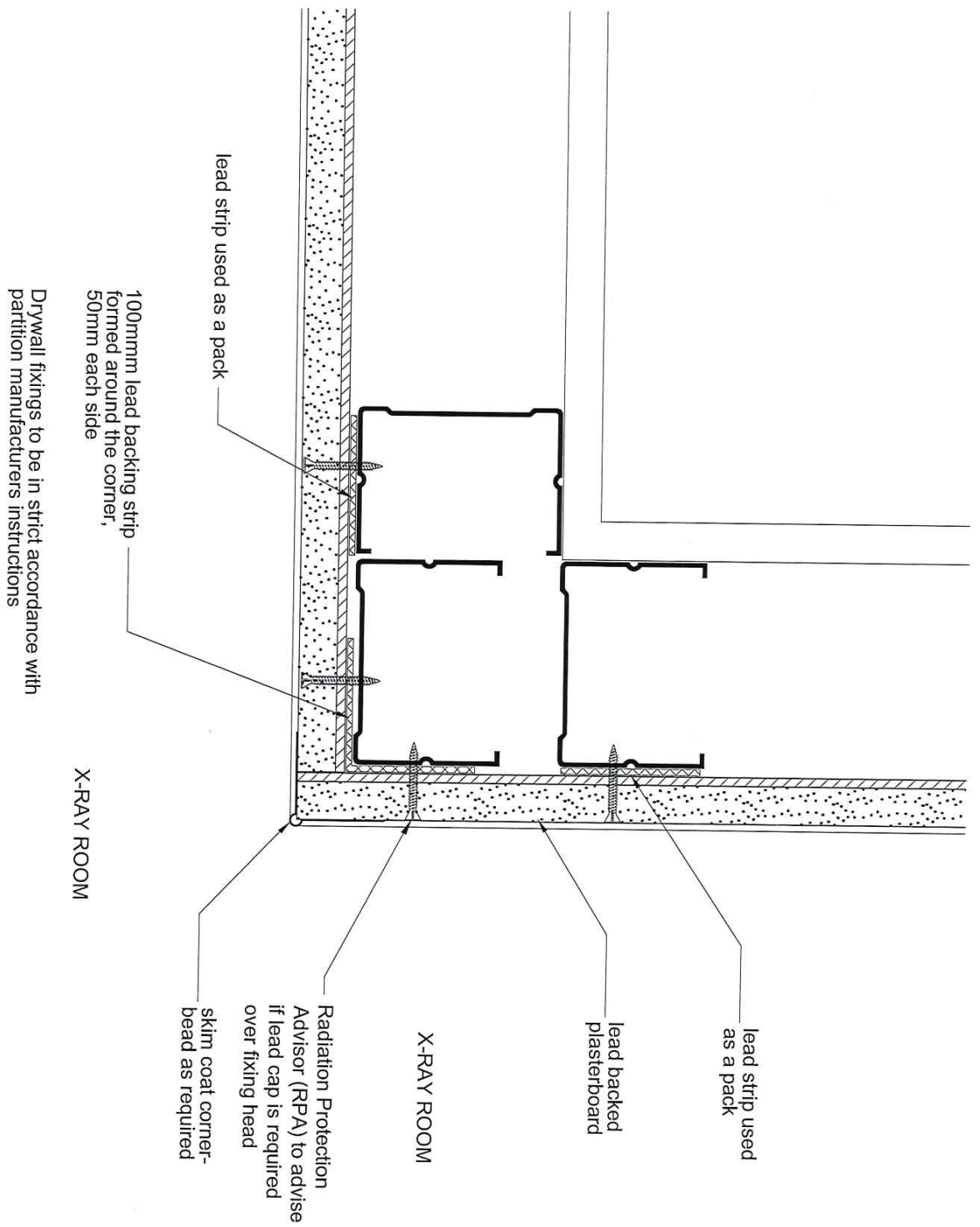


REVISION SCHEDULE:	
Rev No.	Description.
Date.	



DETAIL DESCRIPTION:

LEAD BACKED PLASTERBOARD FITTING DETAILS: 90 DEGREE EXTERNAL CORNER

DATE:	02.12.15
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO:	D01

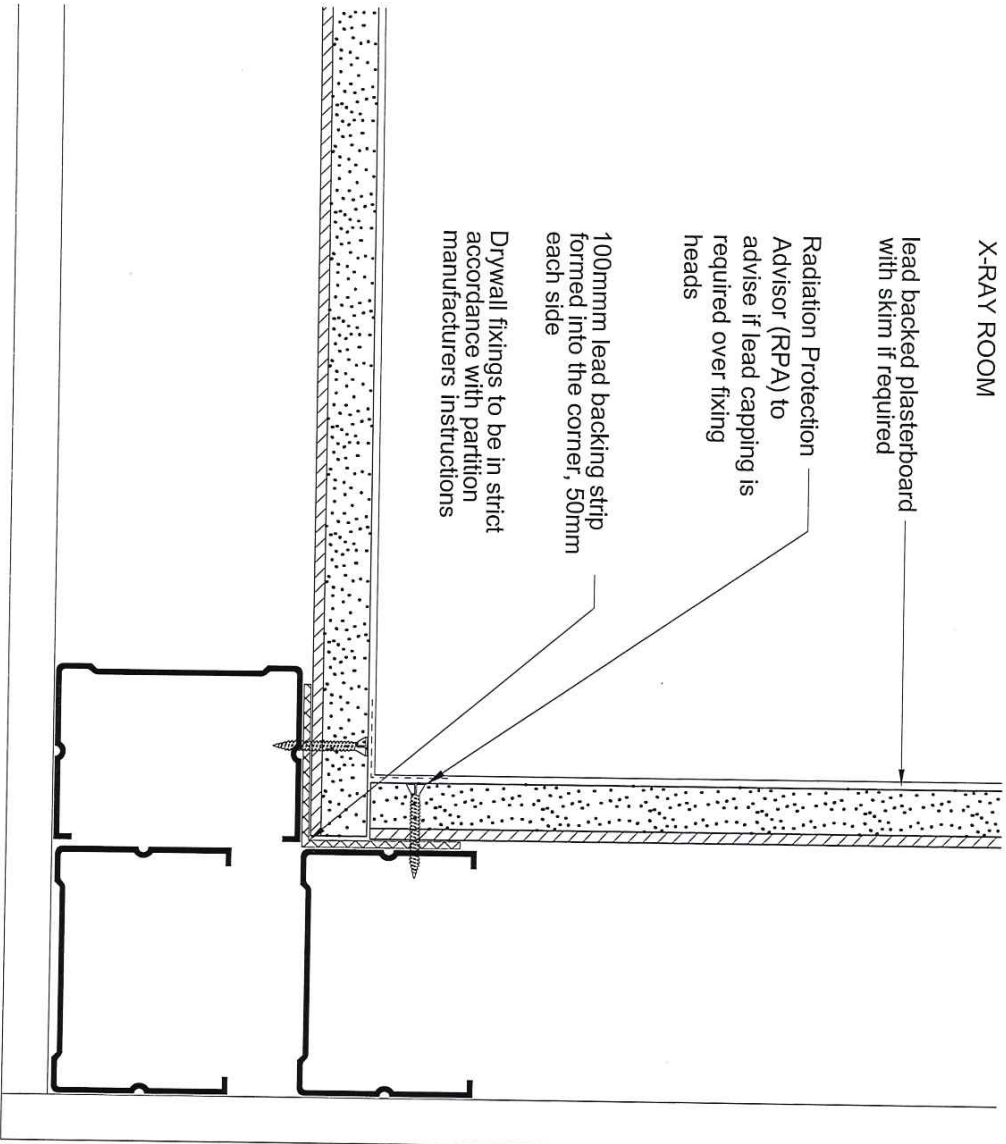
X-RAY ROOM

lead backed plasterboard
with skim if required

Radiation Protection
Advisor (RPA) to
advise if lead capping is
required over fixing
heads

100mm lead backing strip
formed into the corner, 50mm
each side

Drywall fixings to be in strict
accordance with partition
manufacturers instructions



DETAIL DESCRIPTION:

LEAD BACKED PLASTERBOARD FITTING DETAILS:

90 DEGREE INTERNAL CORNER

REVISION SCHEDULE:

Rev No.	Description.	Date.
---------	--------------	-------

DATE: 02.12.15

SCALE: 1:2

DRAWN: HAA_KT

DRAWING NO:

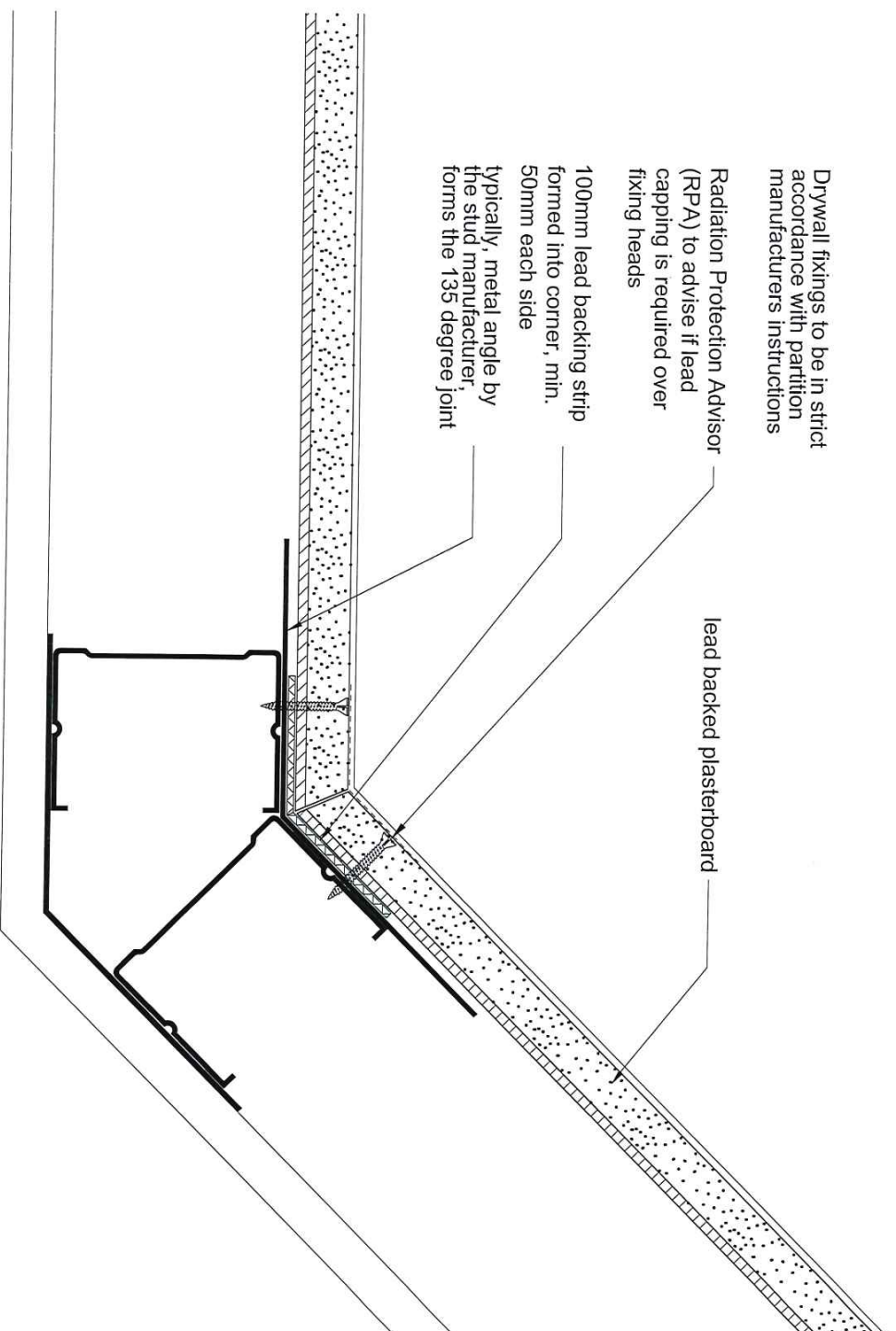
D02

X-RAY ROOM

Drywall fixings to be in strict accordance with partition manufacturers instructions

Radiation Protection Advisor (RPA) to advise if lead capping is required over fixing heads

100mm lead backing strip formed into corner, min. 50mm each side
typically, metal angle by the stud manufacturer, forms the 135 degree joint



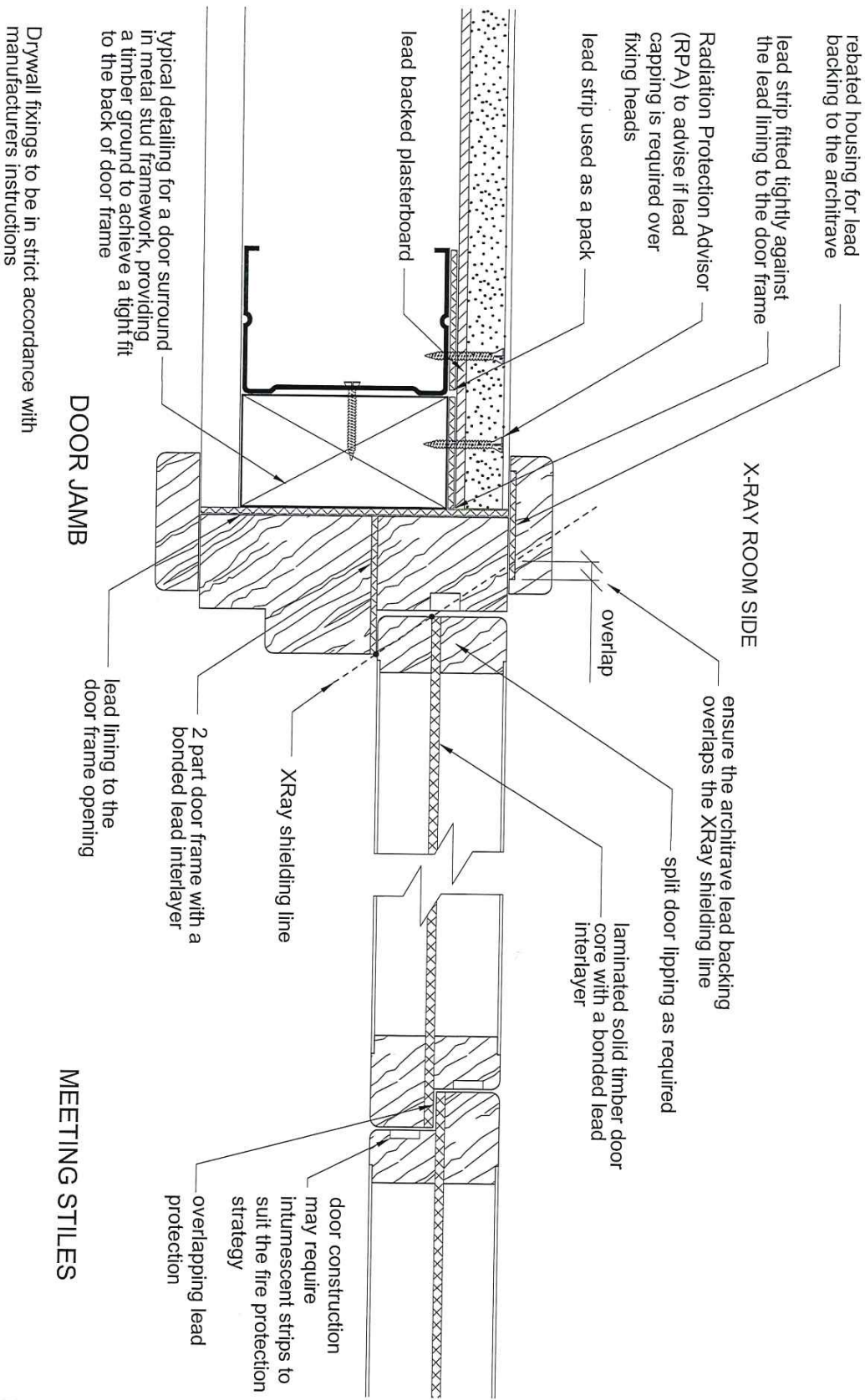
DETAIL DESCRIPTION:

LEAD BACKED PLASTERBOARD FITTING DETAILS: 135 DEGREE INTERNAL CORNER

REVISION SCHEDULE:	
Rev No	Description
Date	

DATE:	02.12.15
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO:	D04

REVISION SCHEDULE:		
Rev No.	Description.	Date.



DETAIL DESCRIPTION:

LEAD BACKED PLASTERBOARD FITTING DETAILS: TYPICAL TIMBER DOOR JAMB & MEETING STILES

DATE:	02.12.15
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO:	D05

Drywall fixings to be in strict accordance with manufacturers instructions

Radiation Protection Adv
(RPA) to advise if lead
capping is required over
fixing heads

50mm lead strip
- at board joints,
25mm each side

lead faced, 12.5mm ply patress; approximately 600mm wide and 300mm high, to fit between the metal studs

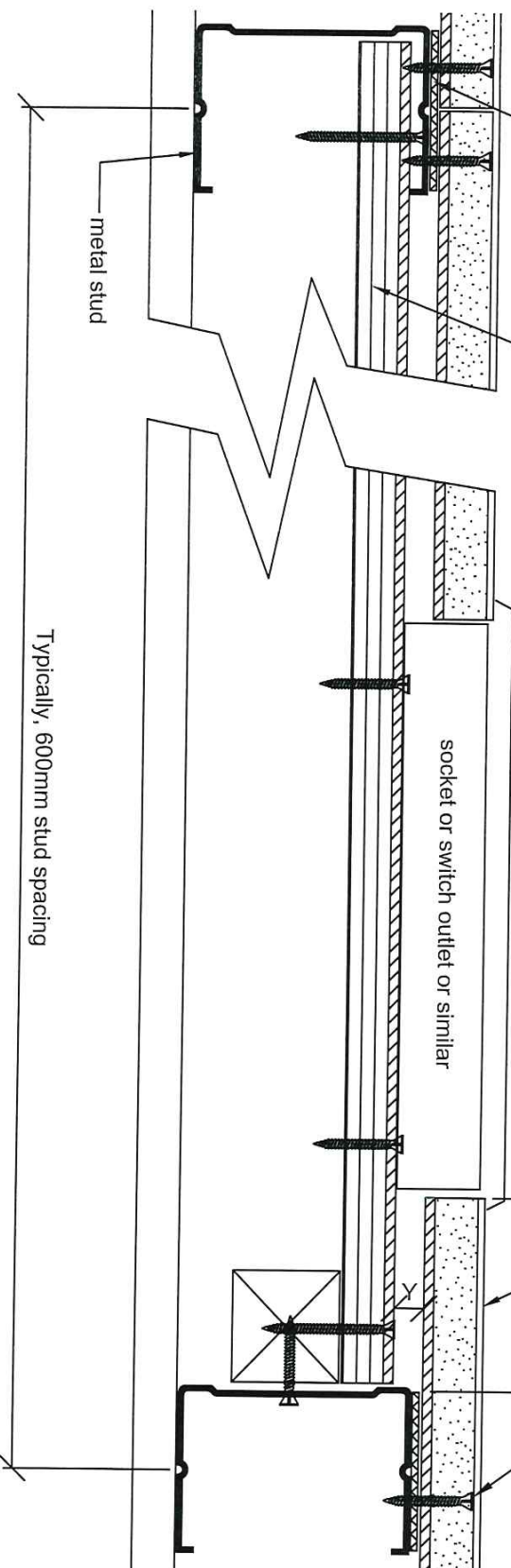
lead backed _____
plasterboard

5Y

socket or switch outlet or similar

– metal stud

Typically, 600mm stud spacing



DETAIL DESCRIPTION:



LEAD BACKED PLASTERBOARD FITTING DETAILS:
TYPICAL ELECTRICAL OUTLET OR SWITCH

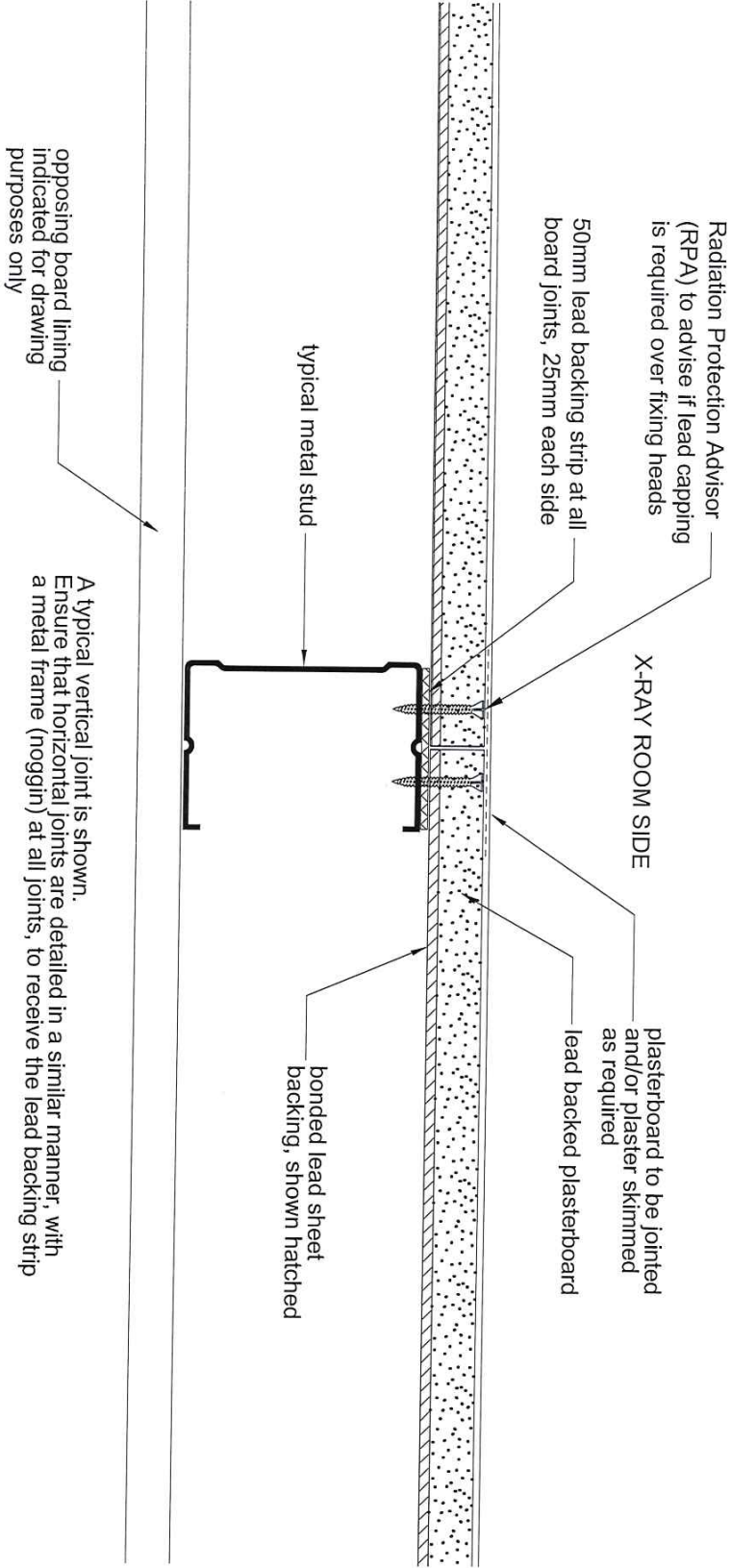
D06A

A typical metal stud partition construction: lined on the X-Ray side with lead backed plasterboard.

The thickness of the lead protection is to be determined by the appointed Radiation Protection Advisor (RPA).

If two layers of board are required for fire/acoustic purposes, the lead backed board should be the first layer to be applied to the stud framing.

Drywall fixings to be in strict accordance with partition manufacturers instructions



DETAIL DESCRIPTION:

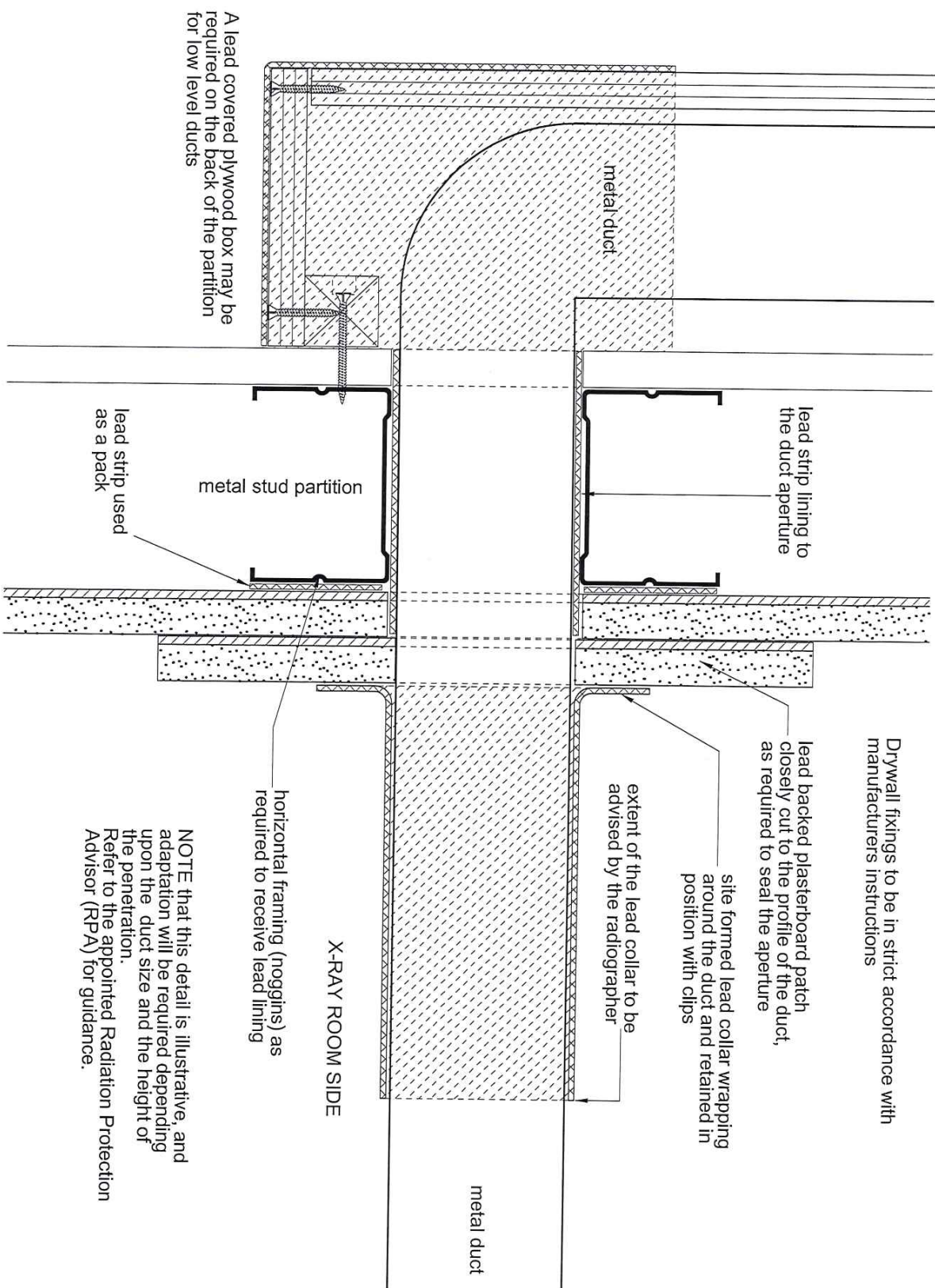
**LEAD BACKED PLASTERBOARD FITTING DETAILS:
TYPICAL BOARD JOINT**

REVISION SCHEDULE:

Rev No.	Description.	Date.

DATE:	02.12.15
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO.:	D07

REVISION SCHEDULE:	
Rev No.	Description.
Date.	



DETAIL DESCRIPTION:

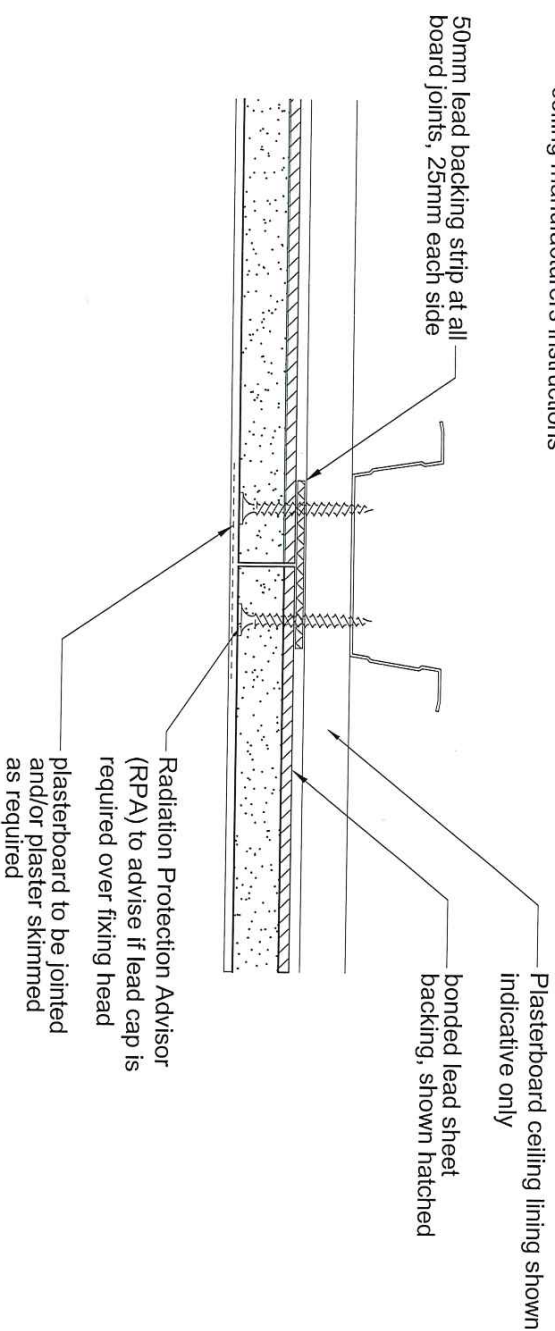
LEAD BACKED PLASTERBOARD FITTING DETAILS: DUCT PENETRATION

DATE:	02.12.15
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO:	D08

REVISION SCHEDULE:	
Rev No.	Date.

NOTE: Ceiling system suspension grid shown indicative only and grid centres and fixing spec will be dependant on maximum load of total of board linings, any insulation and finish plaster.

Drywall fixings to be in strict accordance with ceiling manufacturers instructions



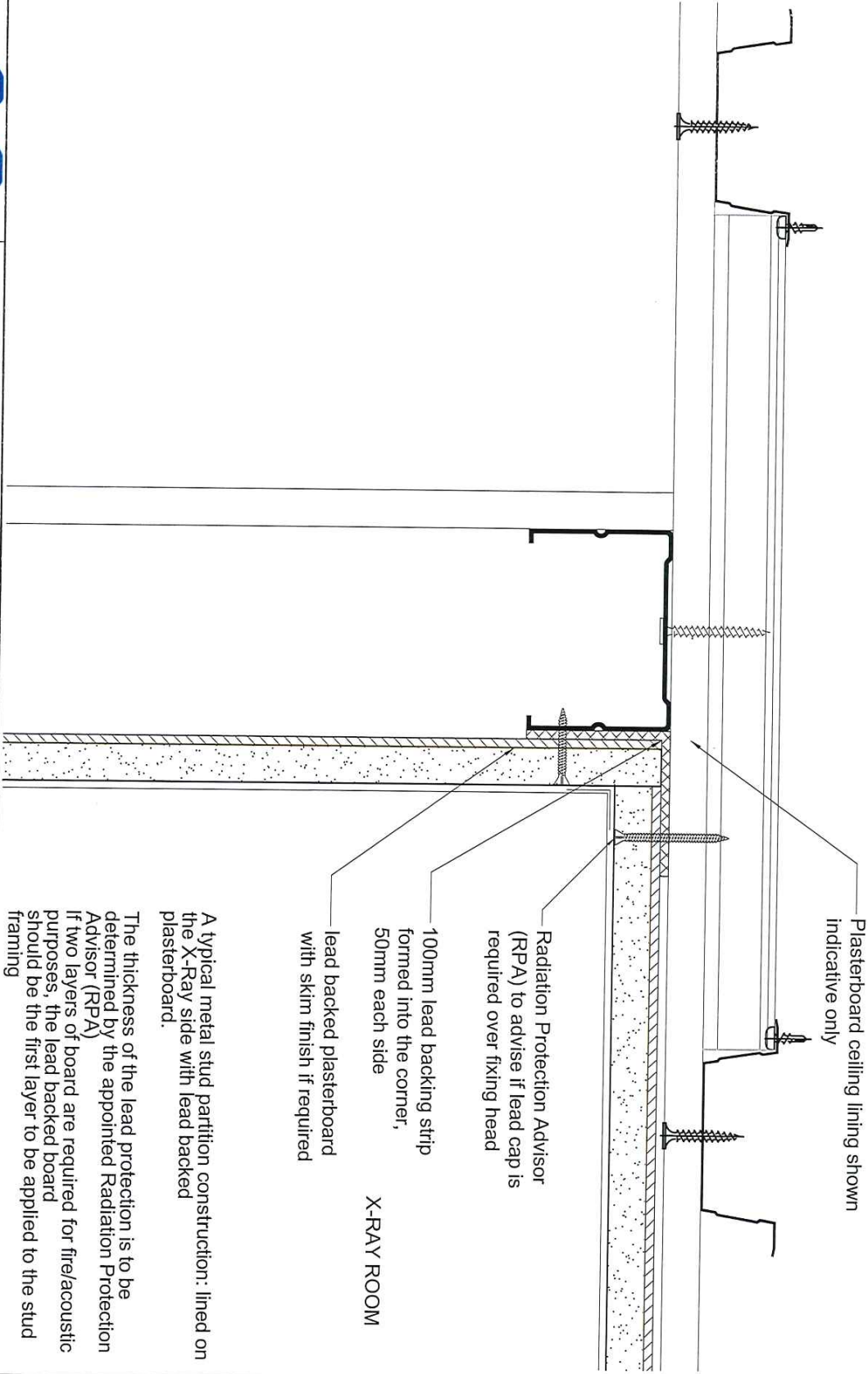
A typical suspended ceiling construction: lined with lead backed plasterboard.
The thickness of the lead protection is to be determined by the appointed Radiation Protection Advisor (RPA)

DETAIL DESCRIPTION:

LEAD BACKED PLASTERBOARD FITTING DETAILS: CEILING JOINT

DATE:	02.12.15
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO:	D09

NOTE: Ceiling system suspension grid shown indicative only and grid centres and fixing spec will be dependant on maximum load of total of board linings, any insulation and finish plaster.
Drywall fixings to be in strict accordance with partition and ceiling manufacturers instructions



Plasterboard ceiling lining shown indicative only

Radiation Protection Advisor (RPA) to advise if lead cap is required over fixing head

100mm lead backing strip formed into the corner, 50mm each side

lead backed plasterboard with skin finish if required

X-RAY ROOM

A typical metal stud partition construction: lined on the X-Ray side with lead backed plasterboard.

The thickness of the lead protection is to be determined by the appointed Radiation Protection Advisor (RPA)
If two layers of board are required for fire/acoustic purposes, the lead backed board should be the first layer to be applied to the stud framing

DETAIL DESCRIPTION:

LEAD BACKED PLASTERBOARD FITTING DETAILS:

WALL / CEILING JOINT

REVISION SCHEDULE:

Rev No.	Description.	Date.
---------	--------------	-------

DATE: 02.12.15

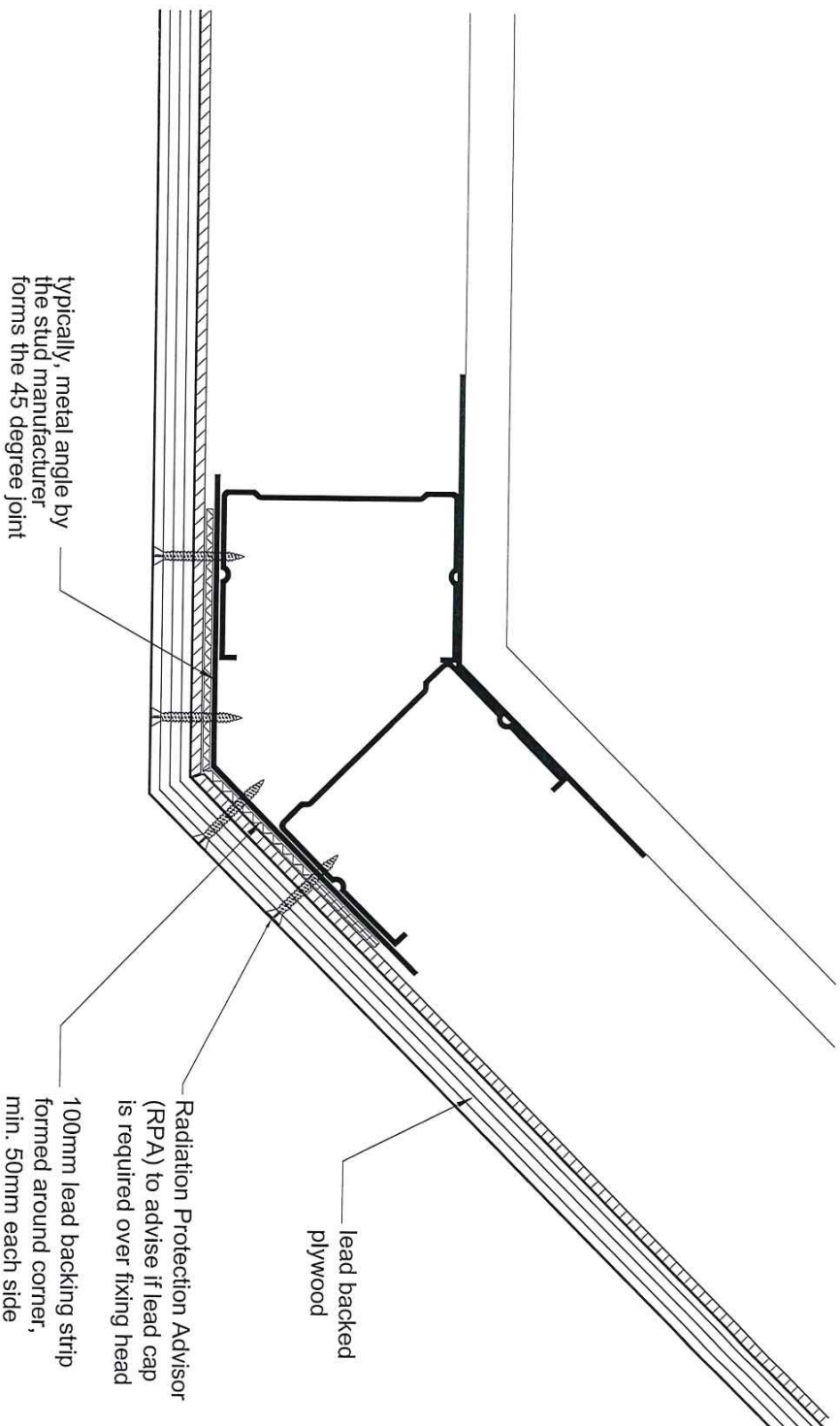
SCALE: 1:2

DRAWN: HAA_KT

DRAWING NO:

D10

REVISION SCHEDULE:	
Rev No.	Date.



DETAIL DESCRIPTION:

TYPICAL LEAD BACKED PLYWOOD FITTING DETAILS: 135 DEGREE EXTERNAL CORNER

DATE:	07.12.15
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO:	D11

X-RAY ROOM

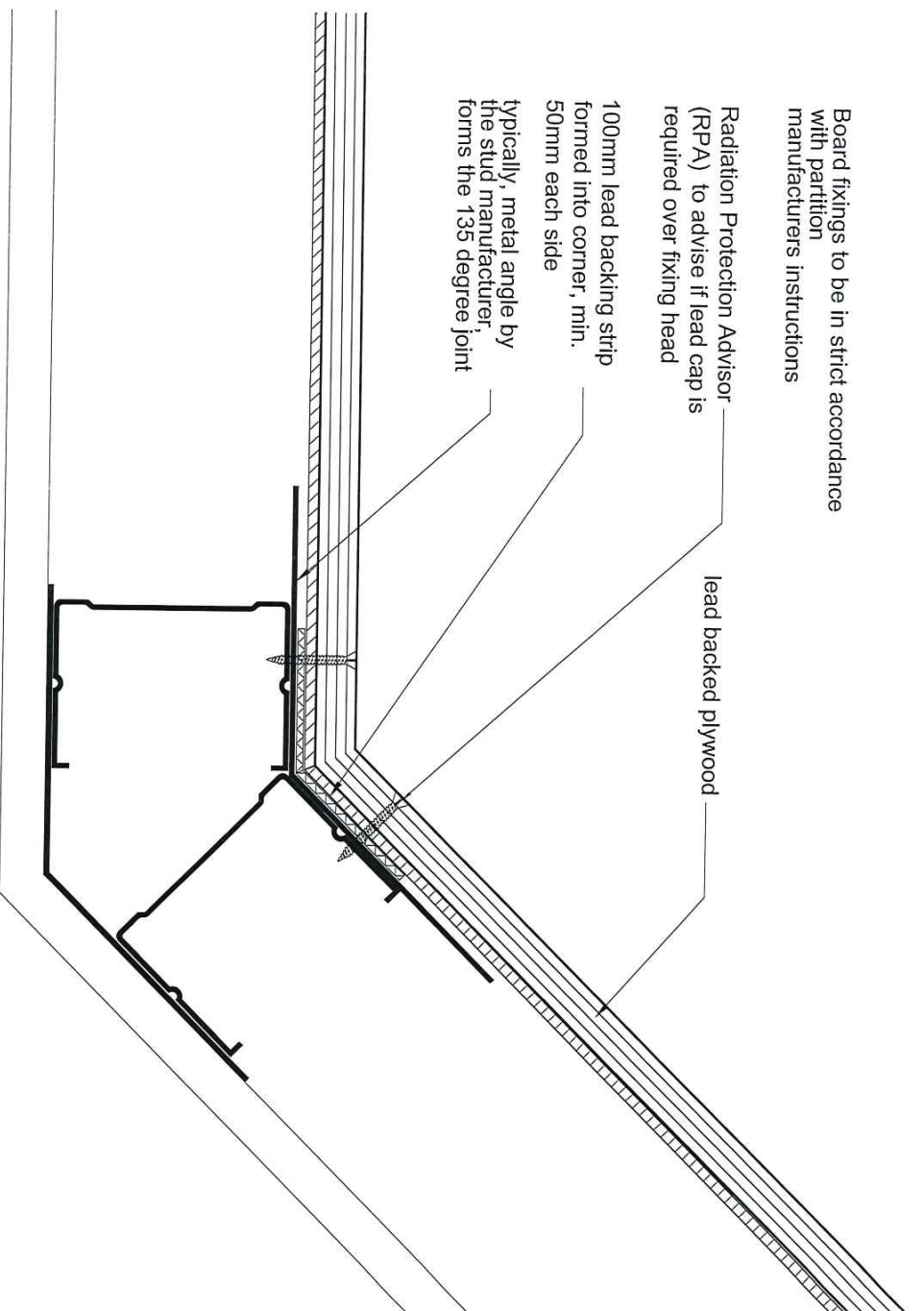
Board fixings to be in strict accordance with partition manufacturers instructions

Radiation Protection Advisor (RPA) to advise if lead cap is required over fixing head

100mm lead backing strip formed into corner, min. 50mm each side

typically, metal angle by the stud manufacturer, forms the 135 degree joint

lead backed plywood



DETAIL DESCRIPTION:

**TYPICAL LEAD BACKED PLYWOOD FITTING DETAILS:
135 DEGREE INTERNAL CORNER**

REVISION SCHEDULE:

Rev No.	Description.	Date.
---------	--------------	-------

DATE: 07.12.15

SCALE: 1:2

DRAWN: HAA_KT

DRAWING NO:

D112

A typical metal stud partition construction: lined on the X-Ray side with lead backed plywood

The thickness of the lead protection is to be determined by the appointed Radiation Protection Advisor (RPA)

Board fixings to be in strict accordance with partition manufacturers instructions

Radiation Protection Advisor (RPA) to advise if lead capping is required over fixing heads

X-RAY ROOM SIDE

50mm lead backing strip at all board joints, 25mm each side

lead backed plywood

typical metal stud

bonded lead sheet backing, shown hatched

opposing board lining indicated for drawing purposes only

A typical vertical joint is shown. Ensure that horizontal joints are detailed in a similar manner, with a metal frame (noggin) at all joints, to receive the lead backing strip

DETAIL DESCRIPTION:

TYPICAL LEAD BACKED PLYWOOD FITTING DETAILS:
TYPICAL BOARD JOINT

REVISION SCHEDULE:

Rev No.	Description.	Date.
---------	--------------	-------

DATE: 07.12.15

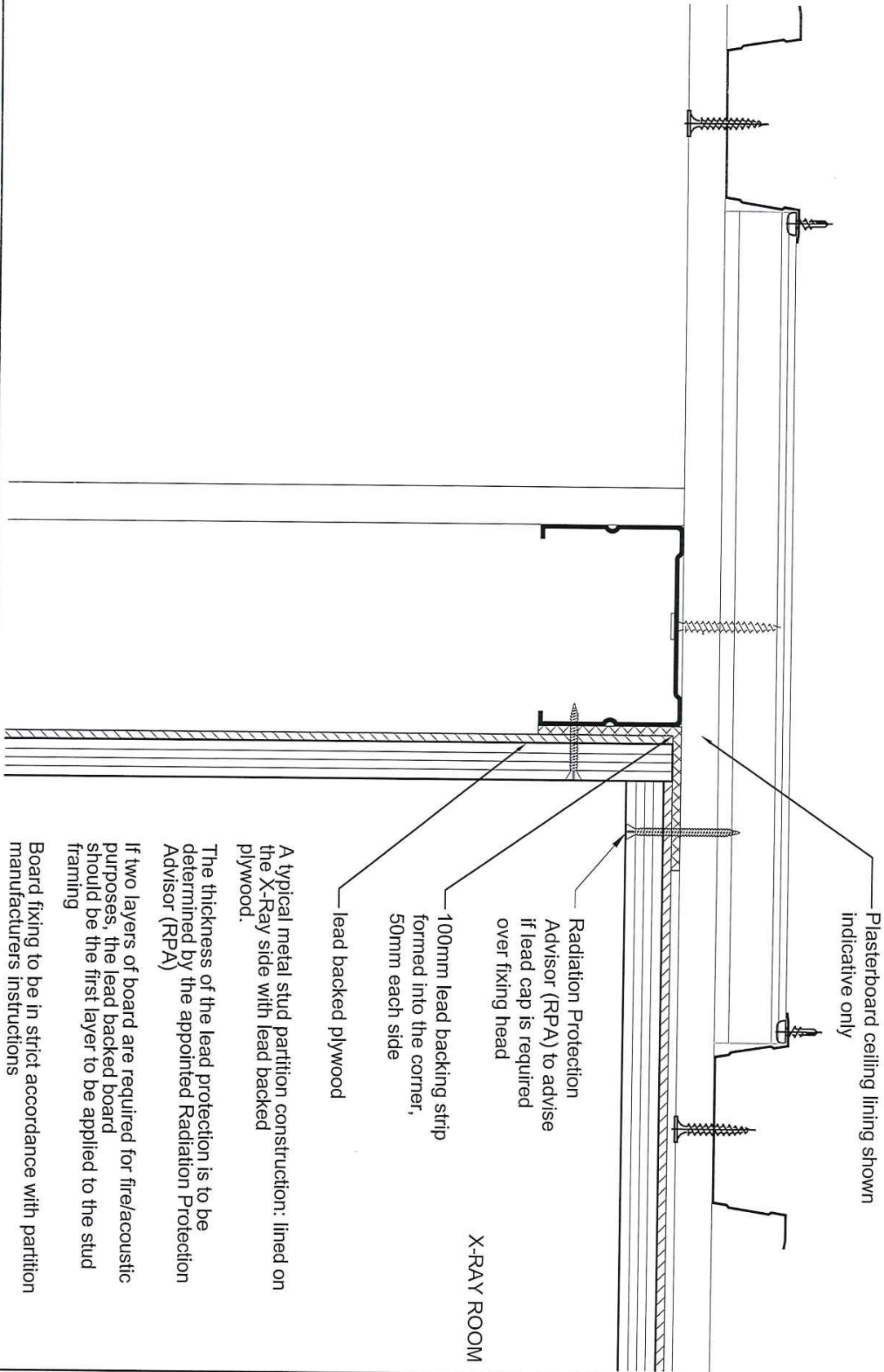
SCALE: 1:2

DRAWN: HAA_KT

DRAWING NO:

D13

NOTE: Ceiling system suspension grid shown indicative only and grid centres and fixing spec will be dependant on maximum load of total of board linings, any insulation etc.



DETAIL DESCRIPTION:

TYPICAL LEAD BACKED PLYWOOD FITTING DETAILS:

WALL / CEILING JOINT

REVISION SCHEDULE:

Rev No.	Description.	Date.
---------	--------------	-------

DATE:	07.12.15
-------	----------

SCALE:	1:2
--------	-----

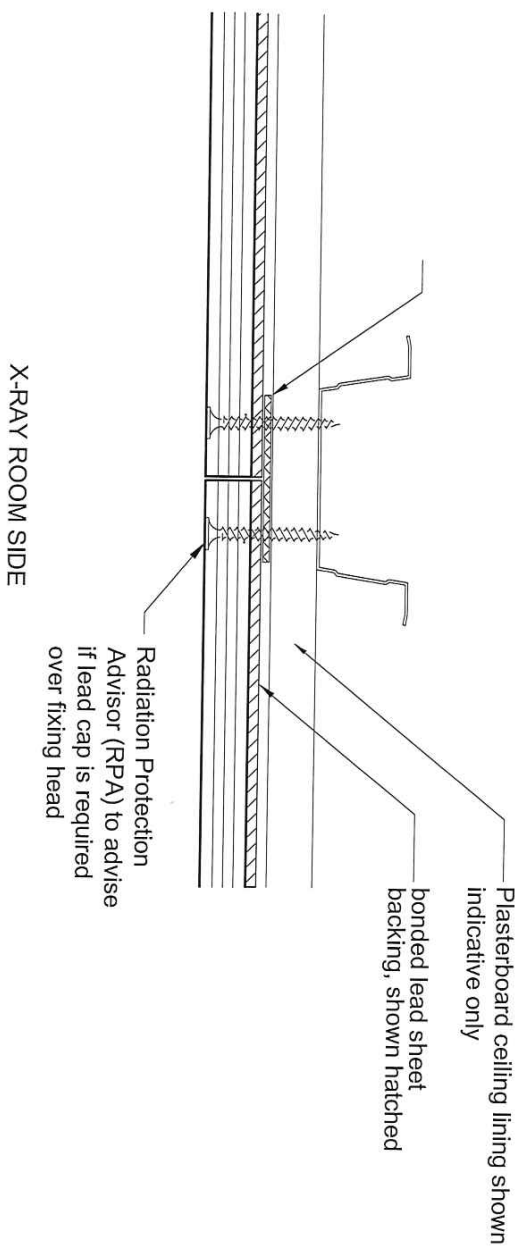
DRAWN:	HAA_KT
--------	--------

DRAWING NO:

D14

REVISION SCHEDULE:		
Rev No.	Description.	Date.

NOTE: Ceiling system suspension grid shown indicative only and grid centres and fixing spec will be dependant on maximum load of total of board linings, any insulation etc.



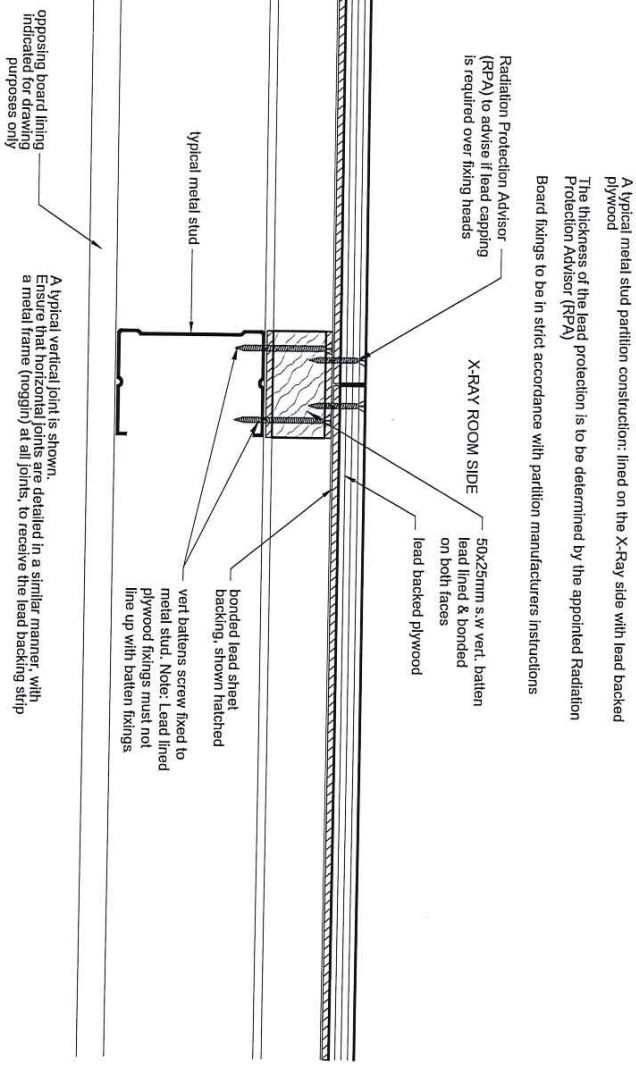
A typical suspended ceiling construction: lined with lead backed plasterboard.
The thickness of the lead protection is to be determined by the appointed Radiation Protection Advisor (RPA).

DETAIL DESCRIPTION:

TYPICAL LEAD BACKED PLYWOOD FITTING DETAILS: CEILING JOINT

DATE:	07.12.15
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO:	D15

REVISION SCHEDULE:		
Rev No.	Description.	Date.

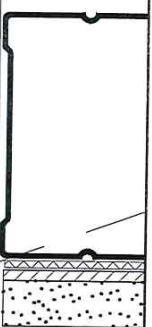


DETAIL DESCRIPTION:

TYPICAL LEAD BACKED PLYWOOD ON BATTENS

FITTING DETAIL: TYPICAL BOARD JOINT

DATE:	01.07.16
SCALE:	1:2
DRAWN:	HAA_KT
DRAWING NO:	D16



RPA comment
The proposed design is satisfactory but I will need to review the individual designs to advise on the length of shielding required for the shelf.

S.Rimmer
LTH RPA
25th May 2018

metal duct or penetration

min 50mm turn-up of lead protection.

X-RAY ROOM SIDE

protective shelf comprising lead shielding to required thickness, bonded onto 12mm plywood sheet, on gallows brackets:- purpose made or standard metal shelf brackets as required to suit projection of shelf.

Drywall fixings to be in strict accordance with manufacturers instructions

lead packs as required at bracket fixings

lead faced protection board

dimension dependent upon radiation risk.

illustrative radiation risk zone, presented by the aperture.
To be determined.
See note below.

NOTE that this detail is illustrative, and adaptation of the size of shelf projection and width will be required depending upon the penetration size and height. Refer to the appointed Radiation Protection Advisor (RPA) for guidance.

REVISION SCHEDULE:		
Rev No.	Description.	Date.

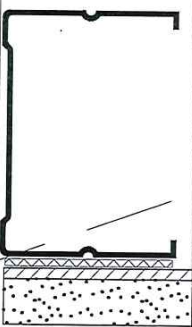
DETAIL DESCRIPTION:



Proposed Lead-Faced Shielding to Wall Penetration
Option A, Bracket Fixed, Above Ceiling

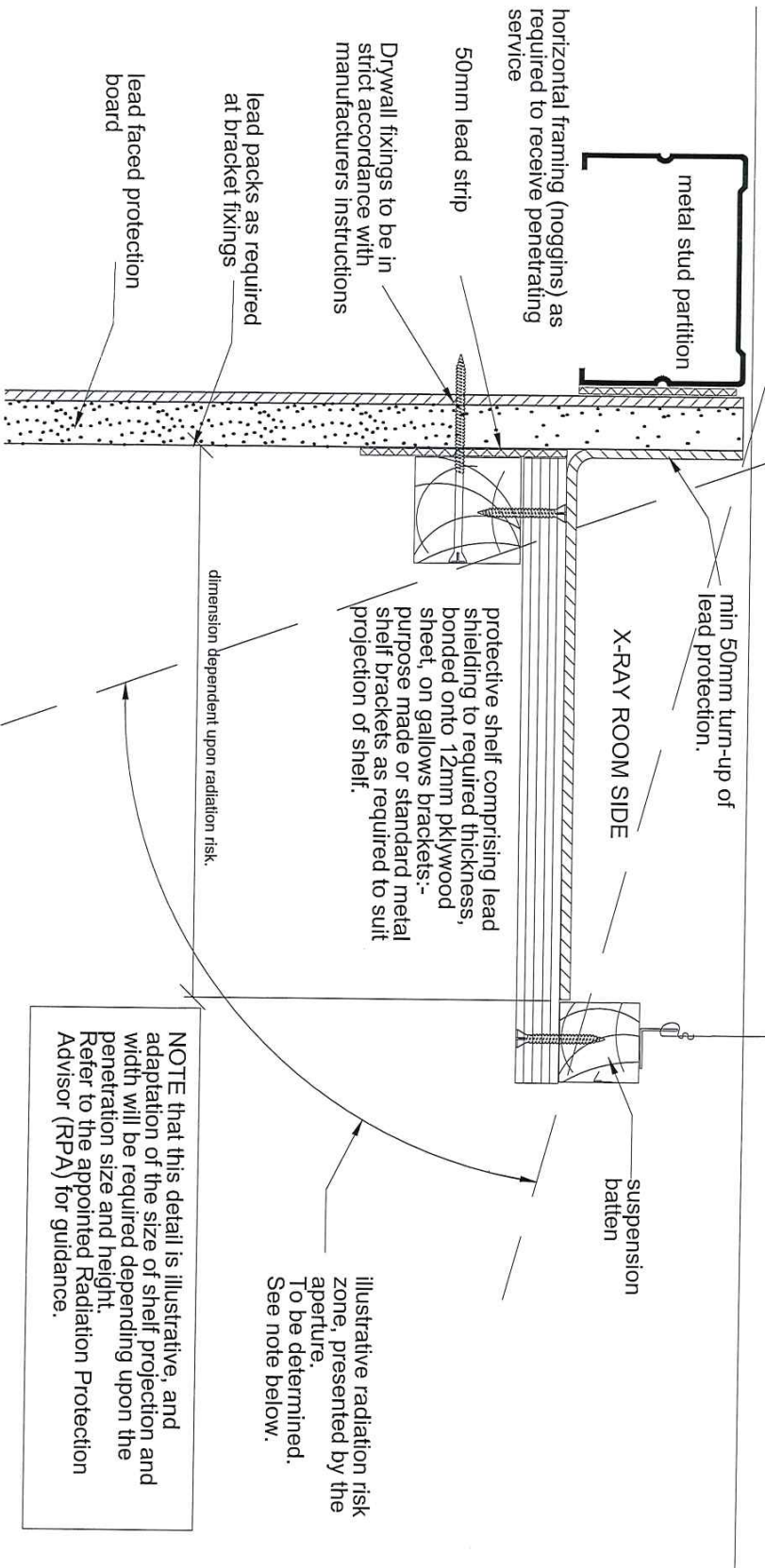
DATE:	02.09.17
SCALE:	1:2
DRAWN:	HAA_MS
DRAWING NO:	D18

REVISION SCHEDULE:		
Rev No.	Description.	Date.



RPA comments
 The proposed design is satisfactory but I will need to give advice on the length of protection required for each individual bracket.
 S.Rimmer, LTHT RPA 25th May 2018
 metal duct or penetration

suspension
 wire and
 bracket by
 others.



NOTE that this detail is illustrative, and adaptation of the size of shelf projection and width will be required depending upon the penetration size and height. Refer to the appointed Radiation Protection Advisor (RPA) for guidance.

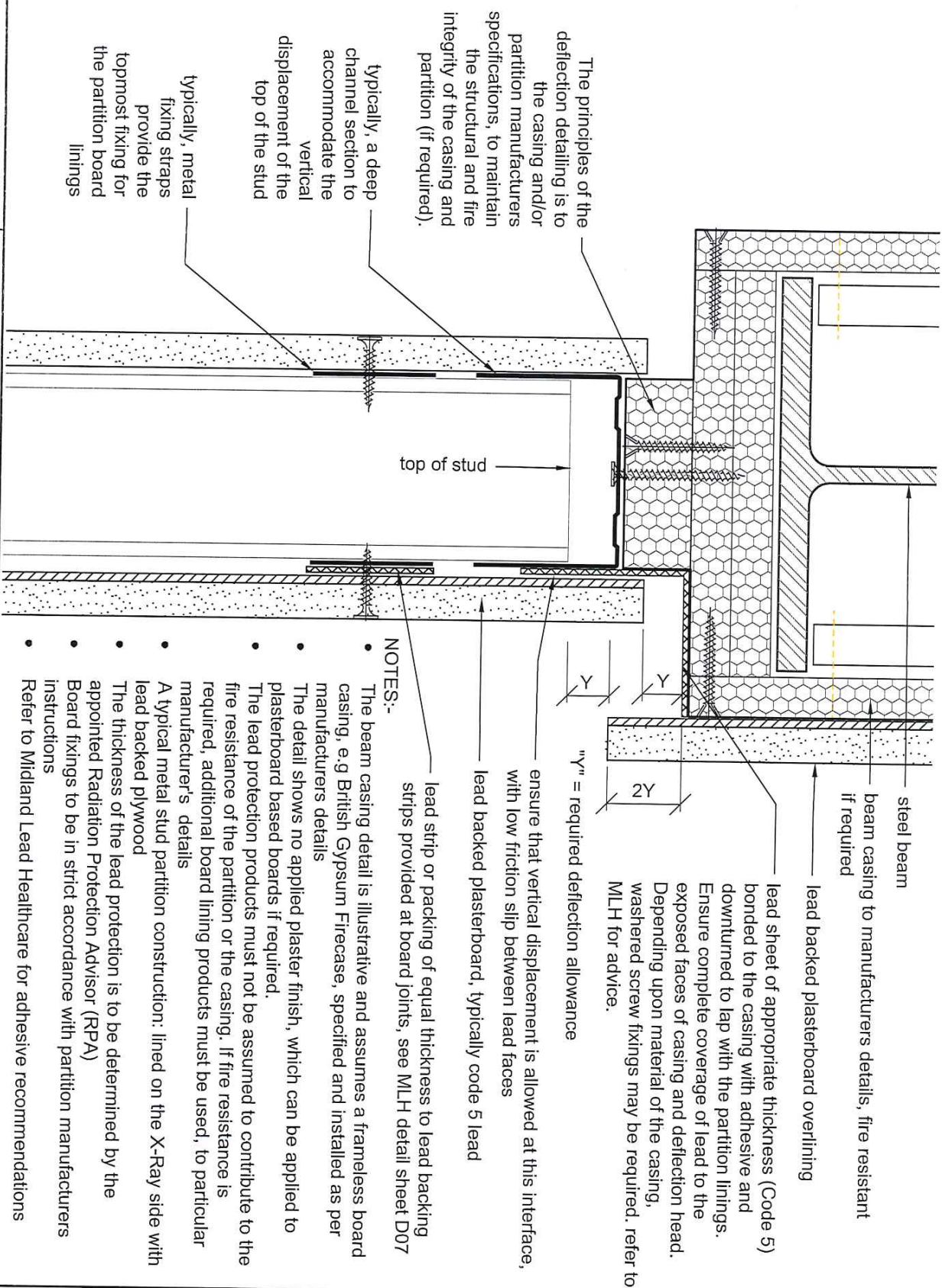
illustrative radiation risk
 zone, presented by the
 aperture.
 To be determined.
 See note below.

DETAIL DESCRIPTION:



Proposed Lead-Faced Shielding to Wall Penetration Option B, Soffit Suspended, Above Ceiling

DATE:	02.09.17
SCALE:	1:2
DRAWN:	HAA_MS
DRAWING NO.:	D19



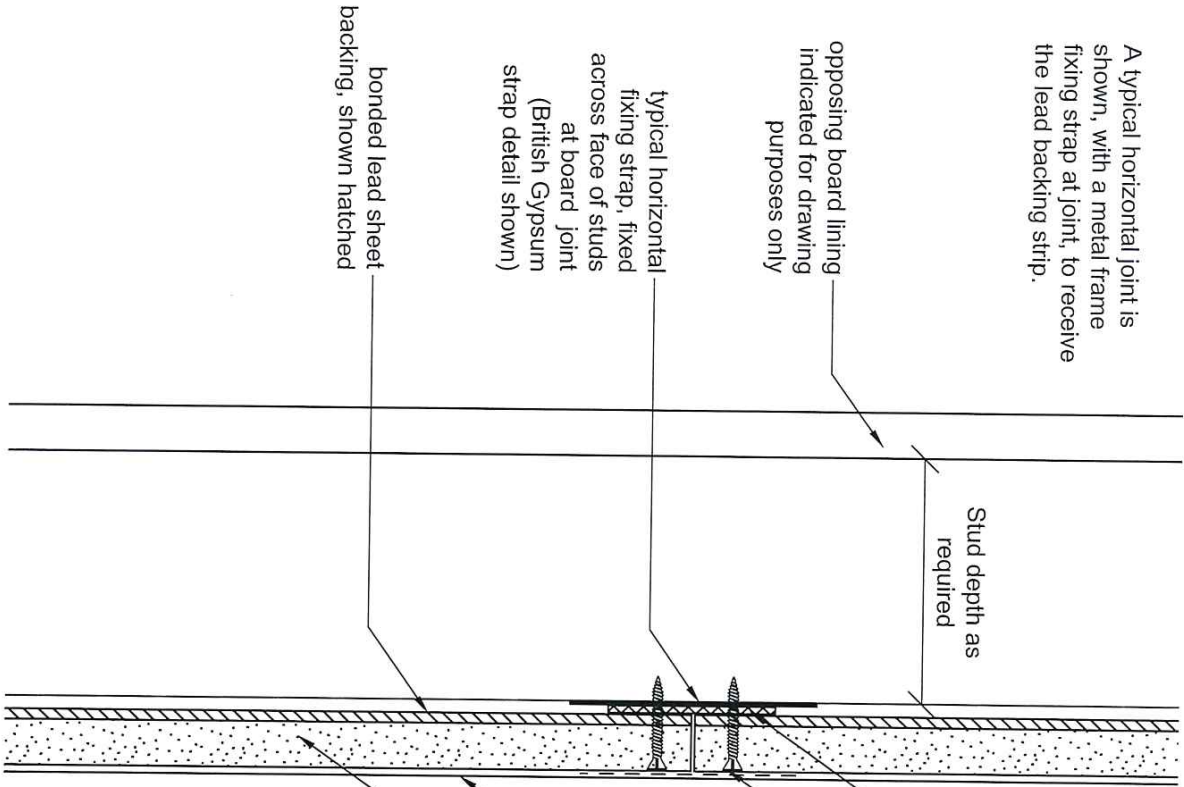
DETAIL DESCRIPTION:

Lead Lined Board Protection, Metal Stud Partition, Typical Deflection Head Detail

REVISION SCHEDULE:	
Rev No.	Description.
Date.	

DATE:	16.12.20
SCALE:	1:2
DRAWN:	SCA MS
DRAWING NO:	D20

A typical horizontal joint is shown, with a metal frame fixing strap at joint, to receive the lead backing strip.



50mm lead backing strip at all board joints, 25mm each side

Radiation Protection Advisor (RPA) to advise if lead capping is required over fixing heads

X-RAY ROOM SIDE

plasterboard to be jointed and / or plaster skimmed as required

lead backed plasterboard

A typical metal stud partition construction: lined on the X-Ray side with lead backed plasterboard.

The thickness of the lead protection is to be determined by the appointed Radiation Protection Advisor (RPA).

If two layers of board are required for fire / acoustic purposes, the lead backed board should be the first layer to be applied to the stud framing.

Drywall fixing to be in strict accordance with partition manufacturers instructions.

DETAIL DESCRIPTION:

LEAD BACKED PLASTERBOARD FITTING DETAILS: TYPICAL HORIZONTAL BOARD JOINT

REVISION SCHEDULE:

Rev No.	Description.	Date.
---------	--------------	-------

DATE: 04.09.23

SCALE: 1:2

DRAWN: SM

DRAWING NO:

D21