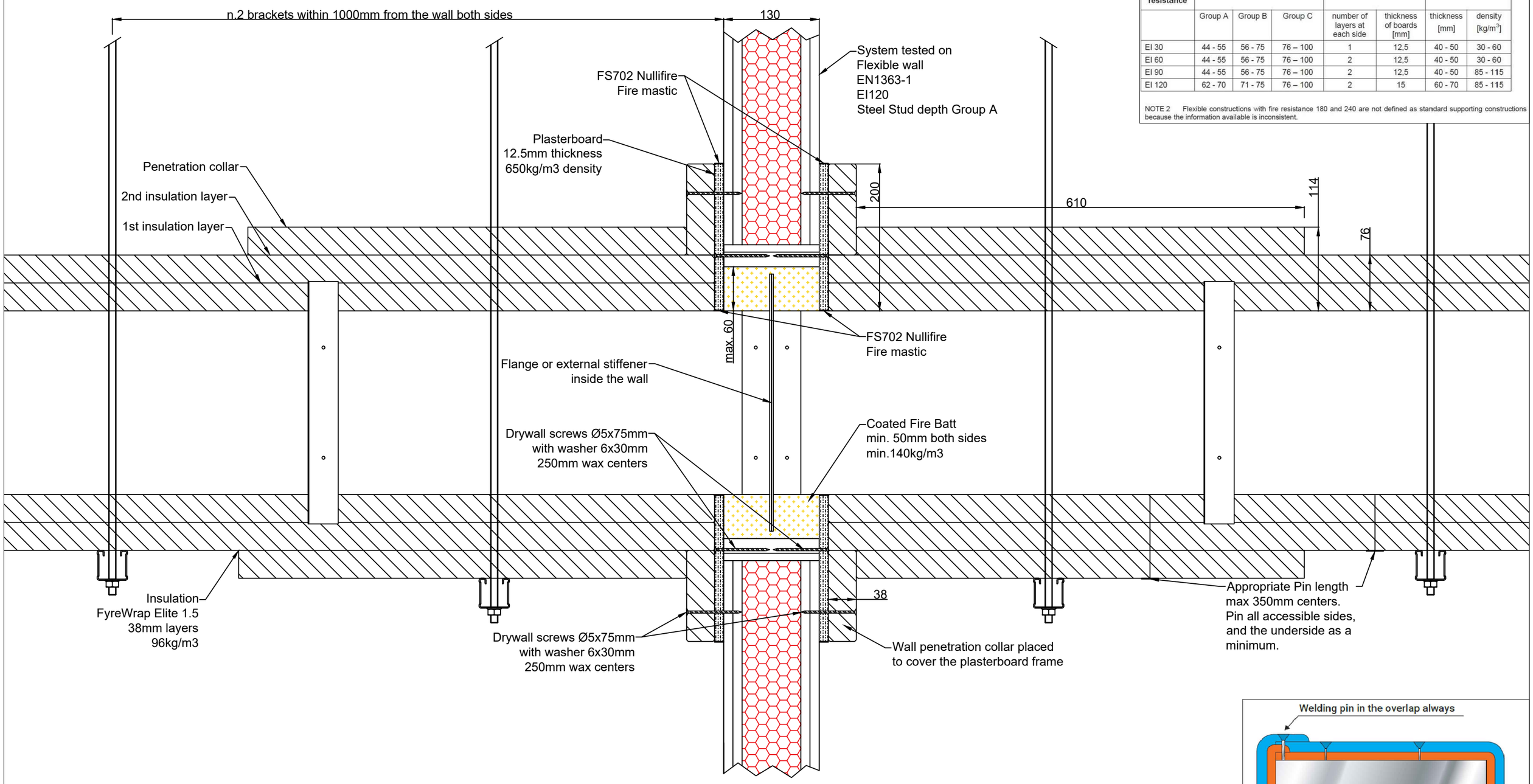
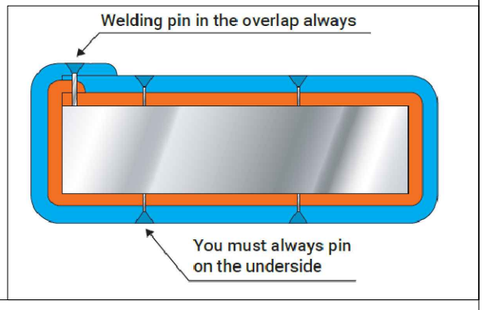
Table 1 — Specifications for flexible constructions

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m^3]
EI 30	44 - 55	56 - 75	76 – 100	1	12,5	40 - 50	30 - 60
EI 60	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	30 - 60
EI 90	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	85 - 115
EI 120	62 - 70	71 - 75	76 – 100	2	15	60 - 70	85 - 115

NOTE 2 Flexible constructions with fire resistance 180 and 240 are not defined as standard supporting constructions because the information available is inconsistent.





REV	DESCRIPTION	DATE	BY	CKD
1				
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TITLE
Penetration details – Flexible wall
EN1366-1 Type A EI120
Kitchen Extract EI60

DRN: EA CKD: MR
DATE: 13/05/25
SCALE NTS (A3)
JOB NO:
REV NO: 1
DWG NO: TD1_TS_01F
CAD:

n.2 brackets within 1000mm from the wall both sides

Blockwork

Penetration collar

2nd insulation layer

1st insulation layer

610

114

76

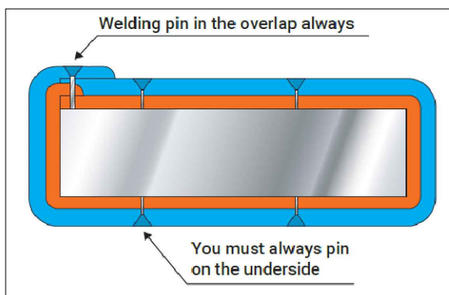
max. 60

External stiffener
inside the wall

Fire cement

Insulation
FyreWrap Elite 1.5
38mm layers
96kg/m3

Appropriate Pin length
max 350mm centers.
Pin all accessible sides,
and the underside as a
minimum.



REV	DESCRIPTION	DATE	BY	CKD
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TITLE
Penetration details – Blockwork wall (cement)
EN1366-8 Smoke Extract
EI60

DRN: EA	CKD: MR	JOB NO:	DWG NO: TD1_TS_02BWC
DATE: 13/05/25			
SCALE NTS (A3)		REV NO: 1	CAD:

n.2 brackets within 1000mm from the wall both sides

Blockwork

Penetration collar

2nd insulation layer

1st insulation layer

1200

114

76

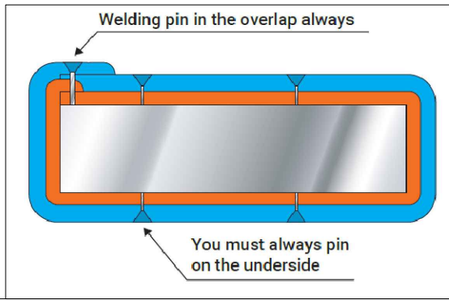
max. 60

External stiffener
inside the wall

Fire cement

Insulation
FyreWrap Elite 1.5
38mm layers
96kg/m3

Appropriate Pin length
max 350mm centers.
Pin all accessible sides,
and the underside as a
minimum.



REV	DESCRIPTION	DATE	BY	CKD
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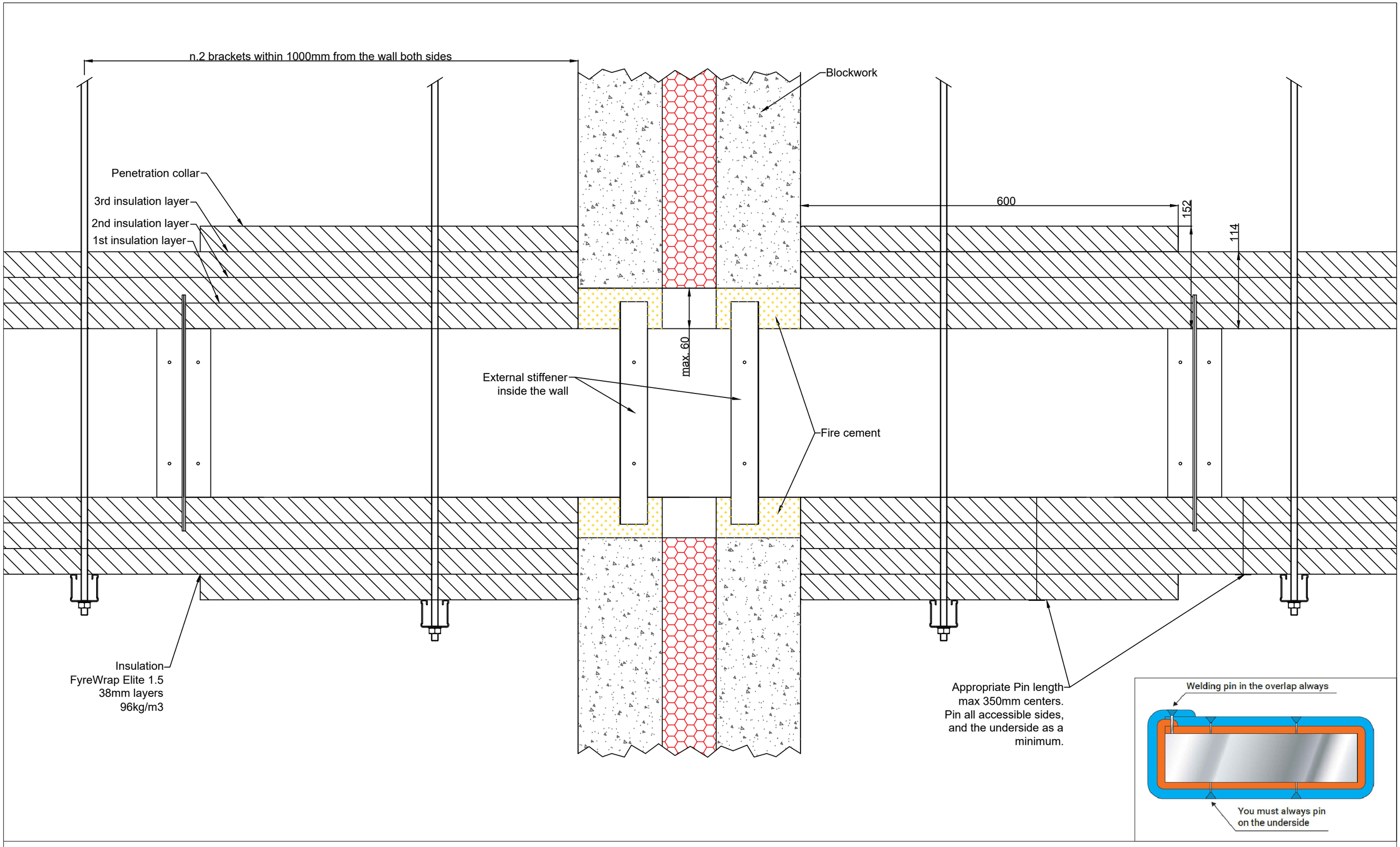
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PROJECT
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Technical Submittal

TITLE
Penetration details – Blockwork wall (cement)
EN1366-8 Smoke Extract
EI90

DRN: EA	CKD: MR	JOB NO:	DWG NO: TD1_TS_03BWC
DATE: 13/05/25			
SCALE NTS (A3)		REV NO: 1	CAD:



REV	DESCRIPTION	DATE	BY	CKD
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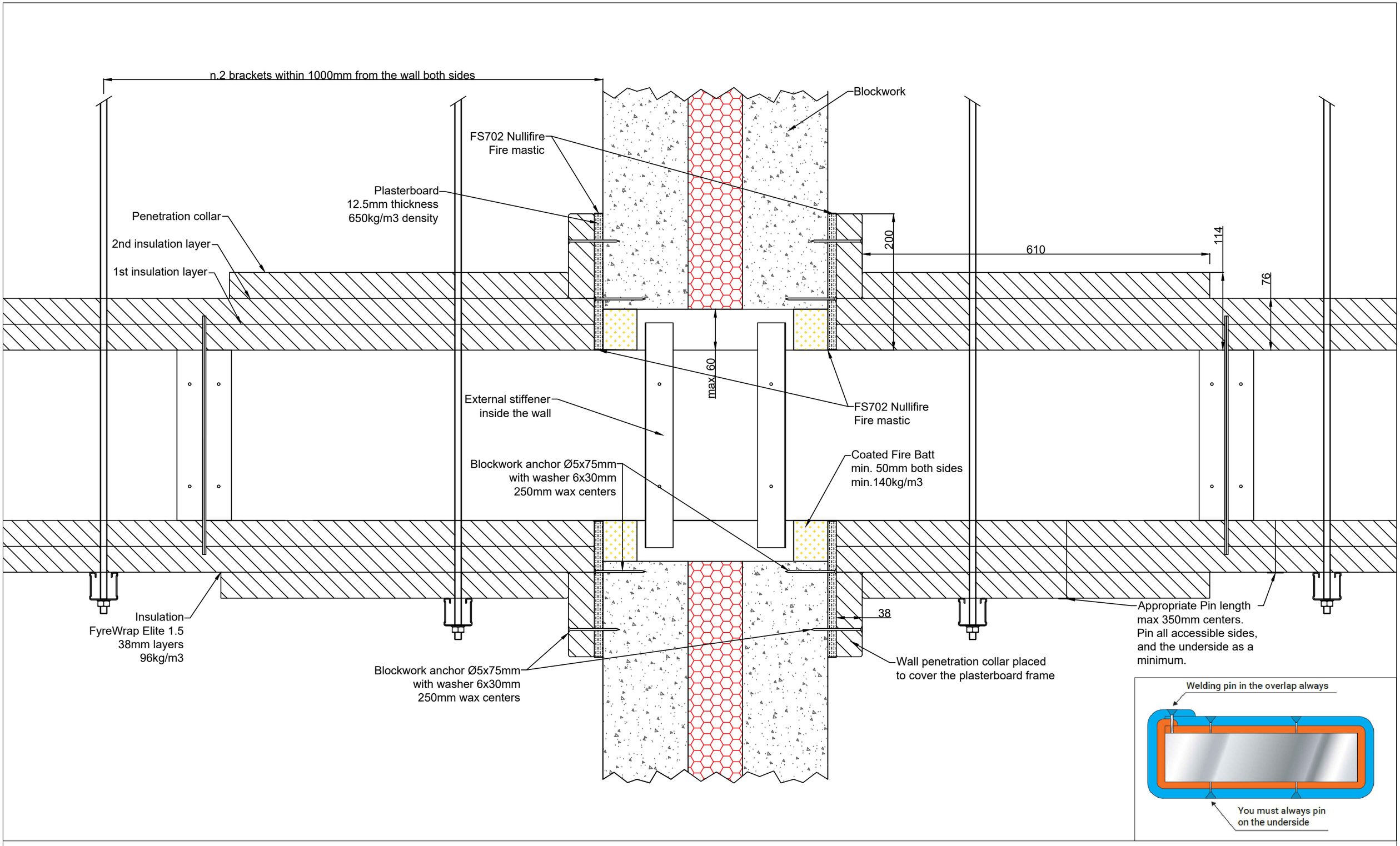
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Technical Submittal

TITLE
Penetration details – Blockwork wall (cement)
EN1366-8 Smoke Extract
EI120

DRN: EA CKD: MR
DATE: 13/05/25
SCALE NTS (A3)
JOB NO:
REV NO: 1
DWG NO: TD1_TS_04BWC
CAD:



REV	DESCRIPTION	DATE	BY	CKD
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TITLE
Penetration details – Blockwork wall
EN1366-8 Smoke Extract
EI60

DRN: EA	CKD: MR	JOB NO:	DWG NO: TD1_TS_02BW
DATE: 13/05/25		REV NO: 1	
SCALE NTS (A3)			CAD:

n.2 brackets within 1000mm from the wall both sides

Blockwork

FS702 Nullifire
Fire mastic

Plasterboard
12.5mm thickness
650kg/m3 density

Penetration collar

2nd insulation layer

1st insulation layer

200

1200

114

76

max. 60

FS702 Nullifire
Fire mastic

External stiffener
inside the wall

Coated Fire Batt
min. 50mm both sides
min.140kg/m3

Blockwork anchor Ø5x75mm
with washer 6x30mm
250mm wax centers

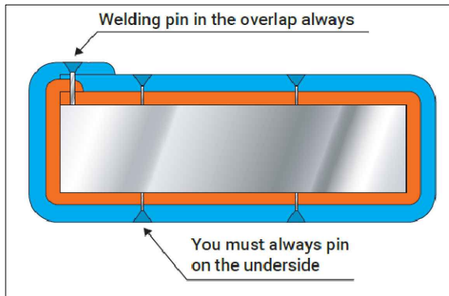
38

Insulation
FyreWrap Elite 1.5
38mm layers
96kg/m3

Blockwork anchor Ø5x75mm
with washer 6x30mm
250mm wax centers

Wall penetration collar placed
to cover the plasterboard frame

Appropriate Pin length
max 350mm centers.
Pin all accessible sides,
and the underside as a
minimum.



REV	DESCRIPTION	DATE	BY	CKD
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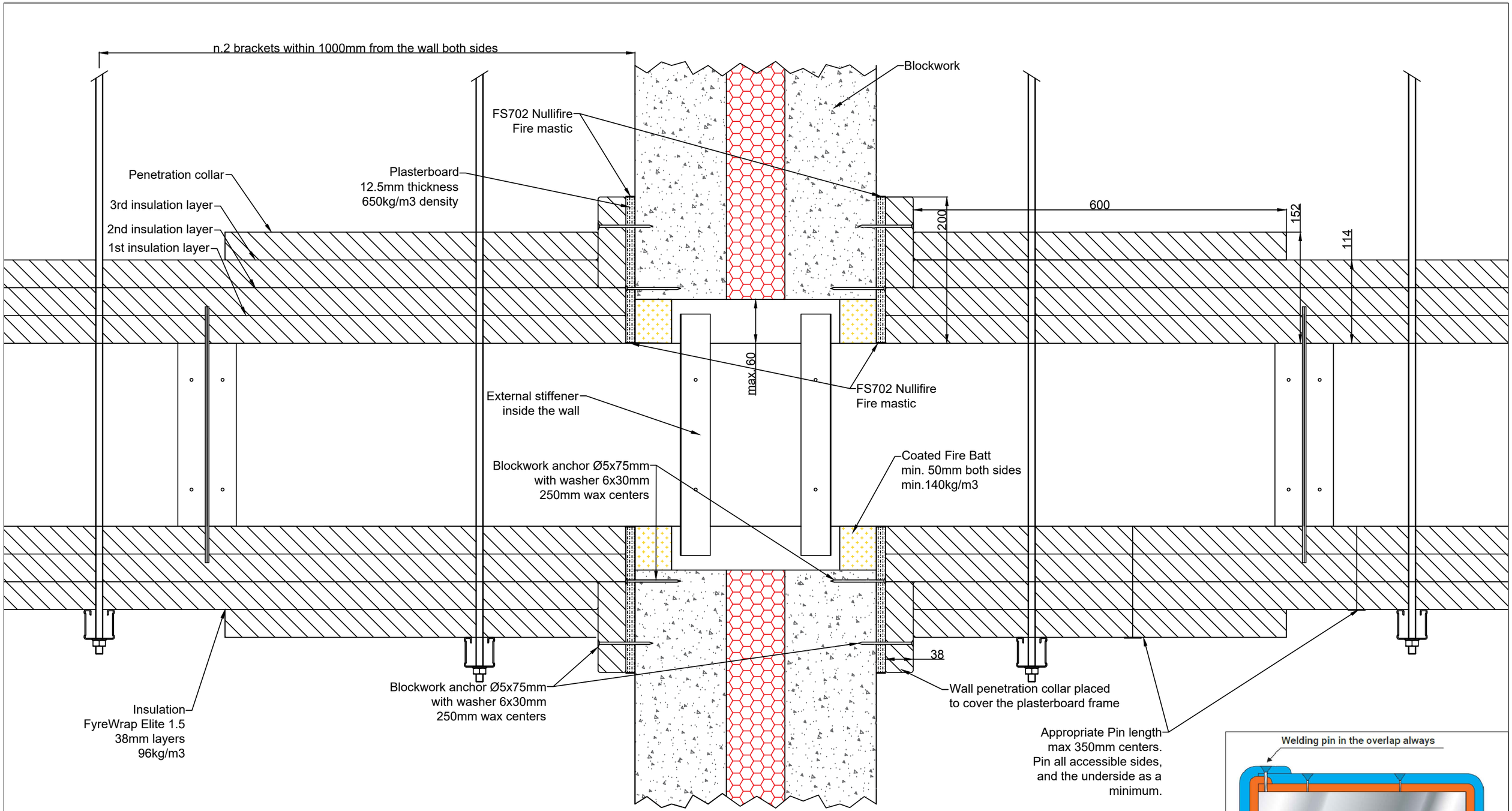
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PROJECT
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Technical Submittal

TITLE
Penetration details – Blockwork wall
EN1366-8 Smoke Extract
EI90

DRN: EA	CKD: MR	JOB NO:	DWG NO: TD1_TS_03BW
DATE: 13/05/25			
SCALE NTS (A3)		REV NO: 1	CAD:



REV	DESCRIPTION	DATE	BY	CKD
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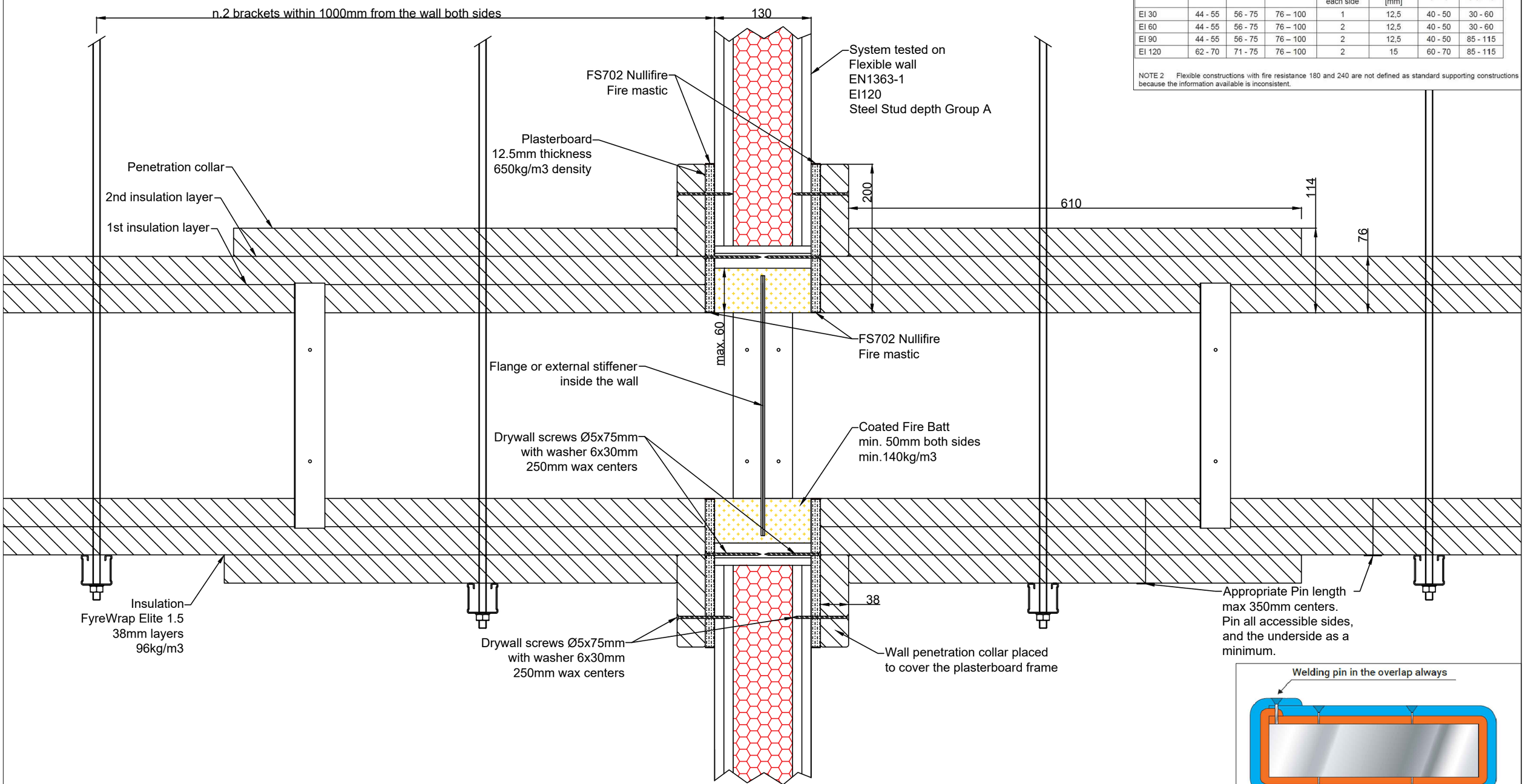
TITLE
Penetration details – Blockwork wall
EN1366-8 Smoke Extract
EI120

DRN: EA	CKD: MR	JOB NO:	DWG NO: TD1_TS_04BW
DATE: 13/05/25			
SCALE NTS (A3)		REV NO: 1	CAD:

Table 1 — Specifications for flexible constructions

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m³]
EI 30	44 - 55	56 - 75	76 – 100	1	12,5	40 - 50	30 - 60
EI 60	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	30 - 60
EI 90	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	85 - 115
EI 120	62 - 70	71 - 75	76 – 100	2	15	60 - 70	85 - 115

NOTE 2 Flexible constructions with fire resistance 180 and 240 are not defined as standard supporting constructions because the information available is inconsistent.



REV	DESCRIPTION	DATE	BY	CKD
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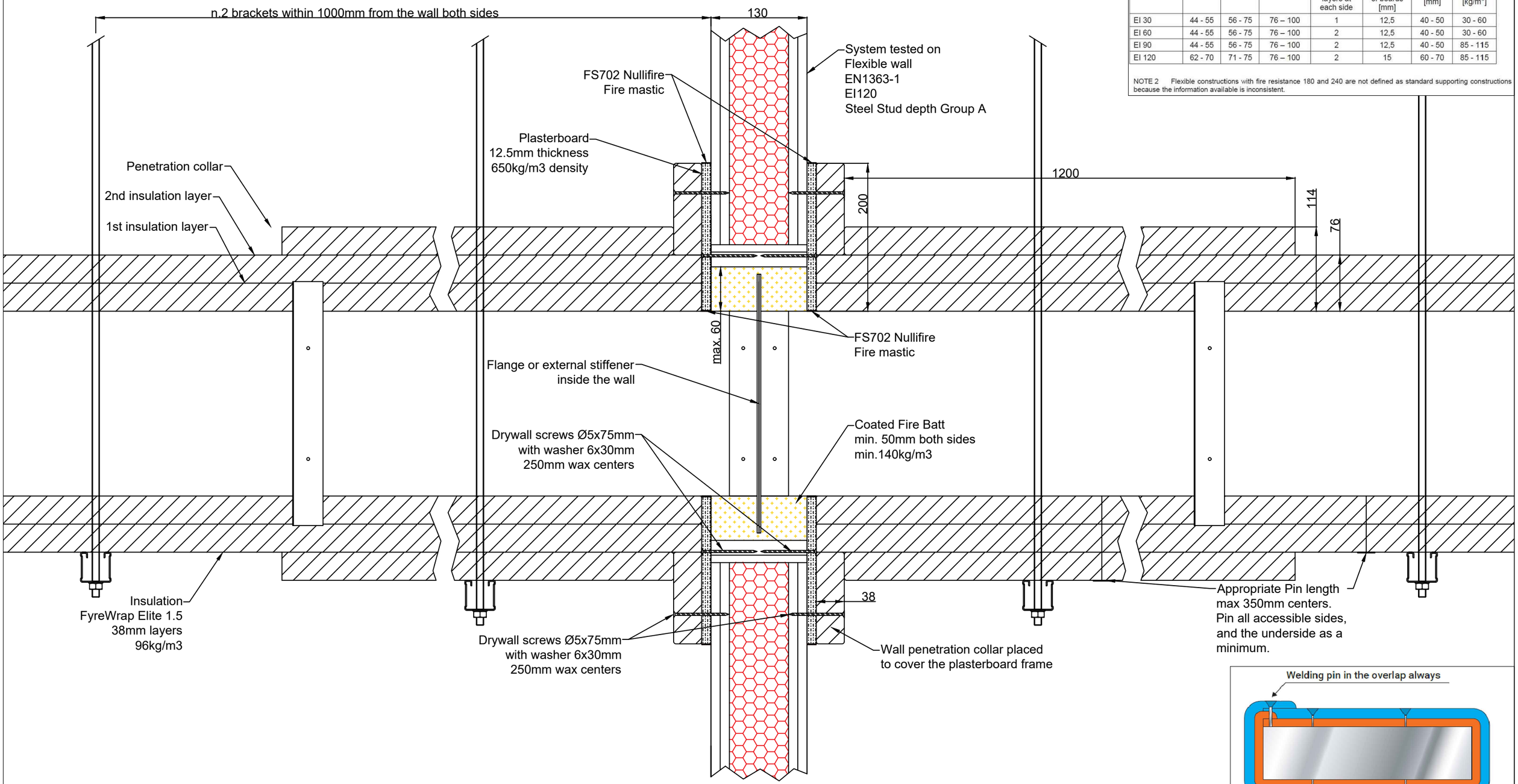
TITLE
Penetration details – Flexible wall
EN1366-8 Smoke Extract
EI60

DRN: EA	CKD: MR	JOB NO:	DWG NO: TD1_TS_02F
DATE: 13/05/25			
SCALE NTS (A3)		REV NO: 1	CAD:

Table 1 — Specifications for flexible constructions

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m³]
EI 30	44 - 55	56 - 75	76 – 100	1	12,5	40 - 50	30 - 60
EI 60	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	30 - 60
EI 90	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	85 - 115
EI 120	62 - 70	71 - 75	76 – 100	2	15	60 - 70	85 - 115

NOTE 2 Flexible constructions with fire resistance 180 and 240 are not defined as standard supporting constructions because the information available is inconsistent.



REV	DESCRIPTION	DATE	BY	CKD
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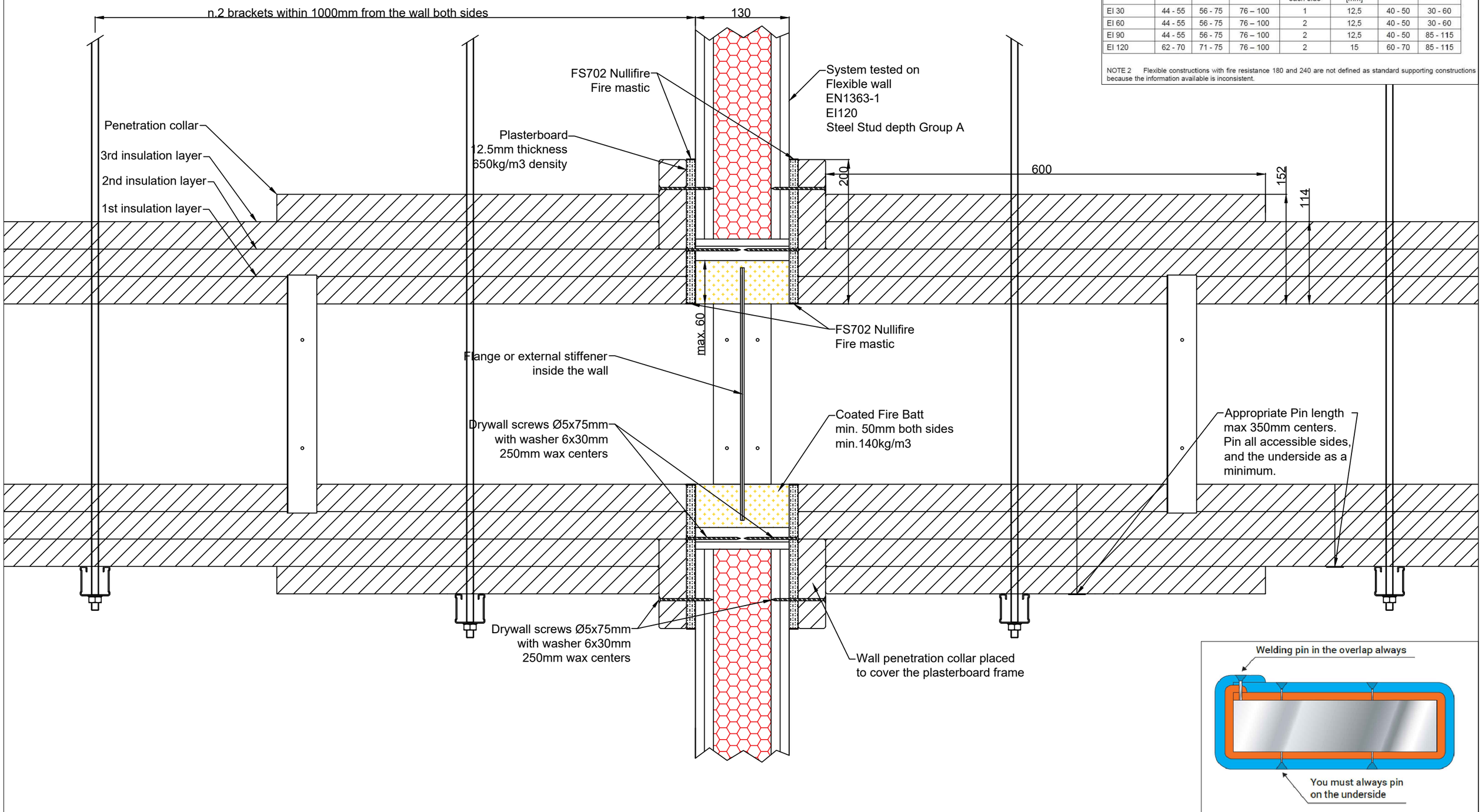
TITLE
Penetration details – Flexible wall
EN1366-8 Smoke Extract
EI90

DRN: EA CKD: MR
DATE: 13/05/25
SCALE NTS (A3)
JOB NO:
REV NO: 1
DWG NO: TD1_TS_03F
CAD:

Table 1 — Specifications for flexible constructions

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m³]
EI 30	44 - 55	56 - 75	76 – 100	1	12,5	40 - 50	30 - 60
EI 60	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	30 - 60
EI 90	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	85 - 115
EI 120	62 - 70	71 - 75	76 – 100	2	15	60 - 70	85 - 115

NOTE 2 Flexible constructions with fire resistance 180 and 240 are not defined as standard supporting constructions because the information available is inconsistent.



REV	DESCRIPTION	DATE	BY	CKD
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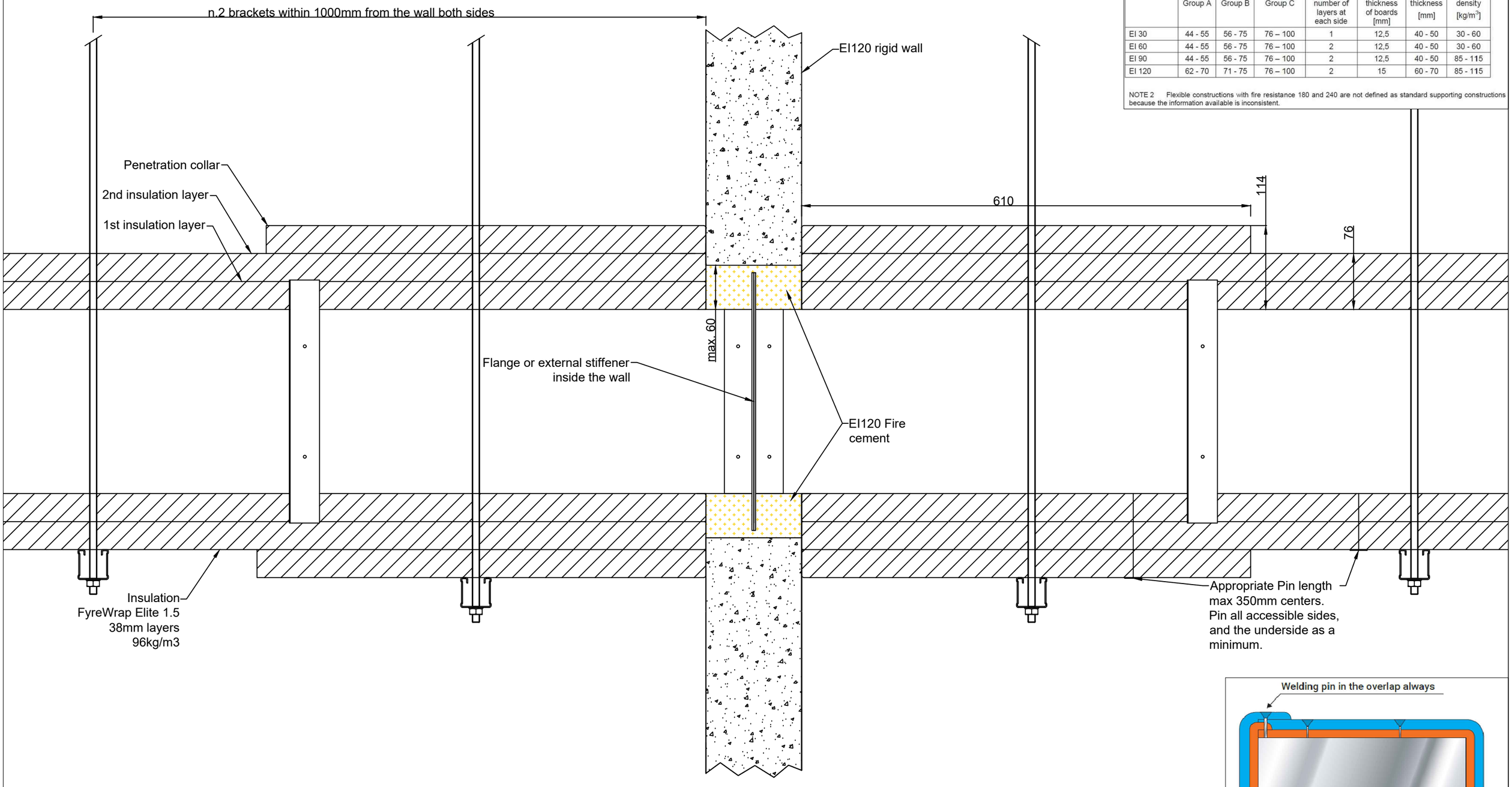
TITLE
Penetration details – Flexible wall
EN1366-8 Smoke Extract
EI120

DRN: EA CKD: MR
DATE: 13/05/25
SCALE NTS (A3)
JOB NO:
REV NO: 1
DWG NO: TD1_TS_04F
CAD:

Table 1 — Specifications for flexible constructions

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m^3]
EI 30	44 - 55	56 - 75	76 – 100	1	12,5	40 - 50	30 - 60
EI 60	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	30 - 60
EI 90	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	85 - 115
EI 120	62 - 70	71 - 75	76 – 100	2	15	60 - 70	85 - 115

NOTE 2 Flexible constructions with fire resistance 180 and 240 are not defined as standard supporting constructions because the information available is inconsistent.



REV	DESCRIPTION	DATE	BY	CKD
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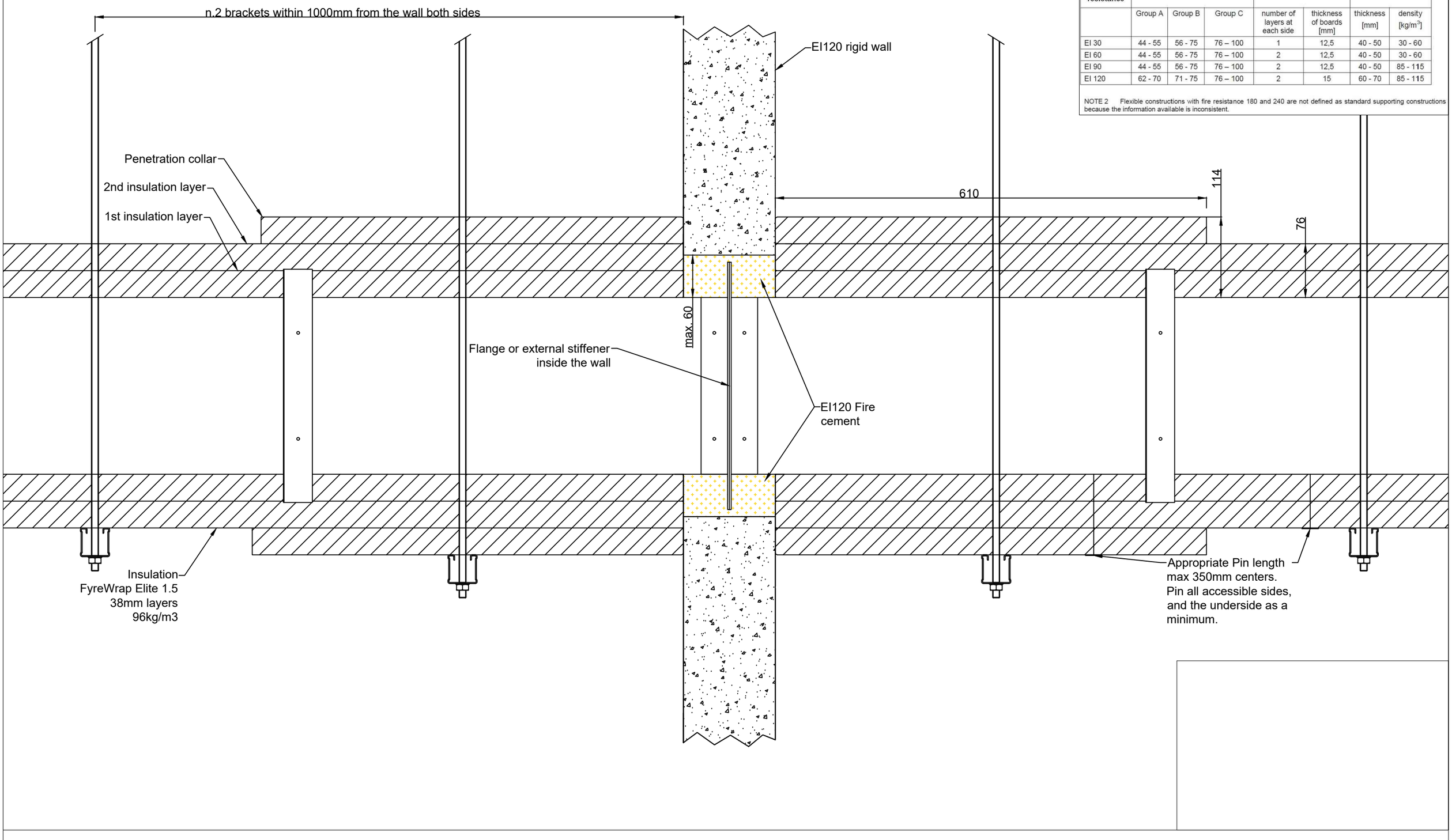
TITLE
Penetration details – Rigid wall
EN1366-1 Type A EI120
Kitchen Extract EI60

DRN: EA	CKD: MR	JOB NO:	DWG NO: TD1_TS_01R
DATE: 13/05/25		REV NO: 1	
SCALE NTS (A3)			CAD:

Table 1 — Specifications for flexible constructions

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m^3]
EI 30	44 - 55	56 - 75	76 – 100	1	12,5	40 - 50	30 - 60
EI 60	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	30 - 60
EI 90	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	85 - 115
EI 120	62 - 70	71 - 75	76 – 100	2	15	60 - 70	85 - 115

NOTE 2 Flexible constructions with fire resistance 180 and 240 are not defined as standard supporting constructions because the information available is inconsistent.



REV	DESCRIPTION	DATE	BY	CKD
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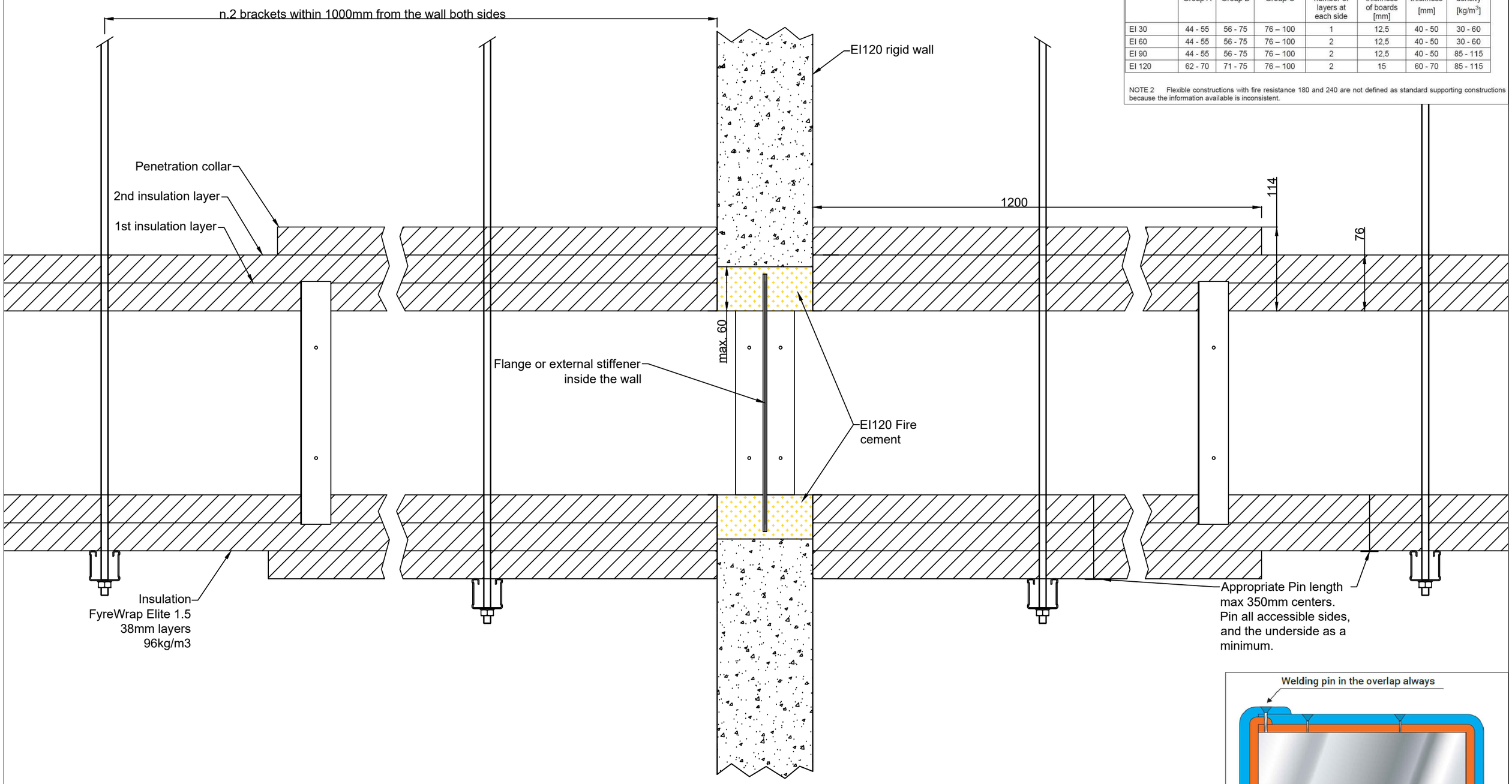
TITLE
Penetration details – Rigid wall
EN1366-8 Smoke Extract
EI60

DRN: EA CKD: MR
DATE: 13/05/25
SCALE NTS (A3)
JOB NO:
REV NO: 1
DWG NO: TD1_TS_02R
CAD:

Table 1 — Specifications for flexible constructions

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m^3]
EI 30	44 - 55	56 - 75	76 – 100	1	12,5	40 - 50	30 - 60
EI 60	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	30 - 60
EI 90	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	85 - 115
EI 120	62 - 70	71 - 75	76 – 100	2	15	60 - 70	85 - 115

NOTE 2 Flexible constructions with fire resistance 180 and 240 are not defined as standard supporting constructions because the information available is inconsistent.



REV	DESCRIPTION	DATE	BY	CKD
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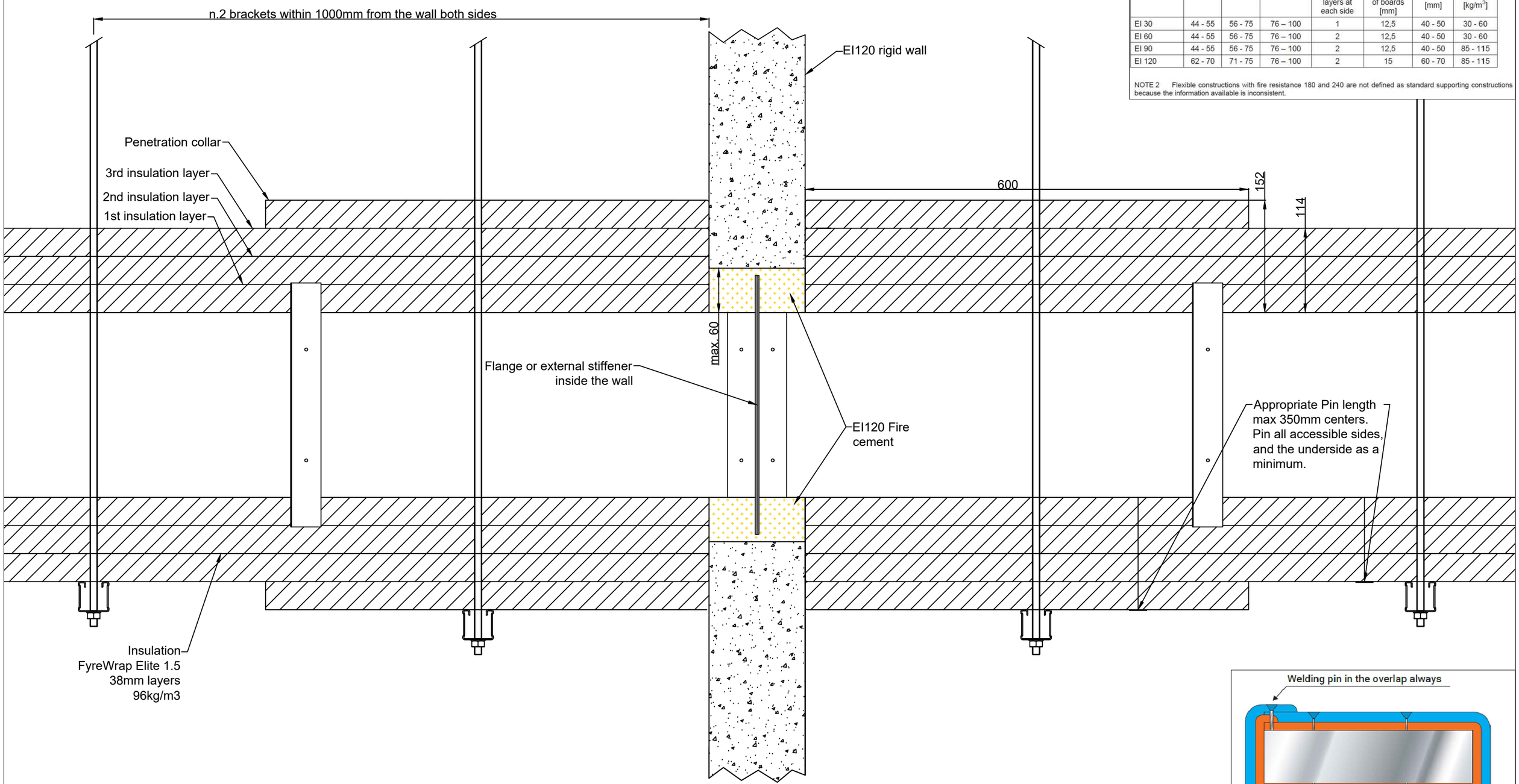
TITLE
Penetration details – Rigid wall
EN1366-8 Smoke Extract
EI90

DRN: EA CKD: MR
DATE: 13/05/25
SCALE NTS (A3)
JOB NO:
REV NO: 1
DWG NO: TD1_TS_03R
CAD:

Table 1 — Specifications for flexible constructions

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m^3]
EI 30	44 - 55	56 - 75	76 – 100	1	12,5	40 - 50	30 - 60
EI 60	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	30 - 60
EI 90	44 - 55	56 - 75	76 – 100	2	12,5	40 - 50	85 - 115
EI 120	62 - 70	71 - 75	76 – 100	2	15	60 - 70	85 - 115

NOTE 2 Flexible constructions with fire resistance 180 and 240 are not defined as standard supporting constructions because the information available is inconsistent.



REV	DESCRIPTION	DATE	BY	CKD
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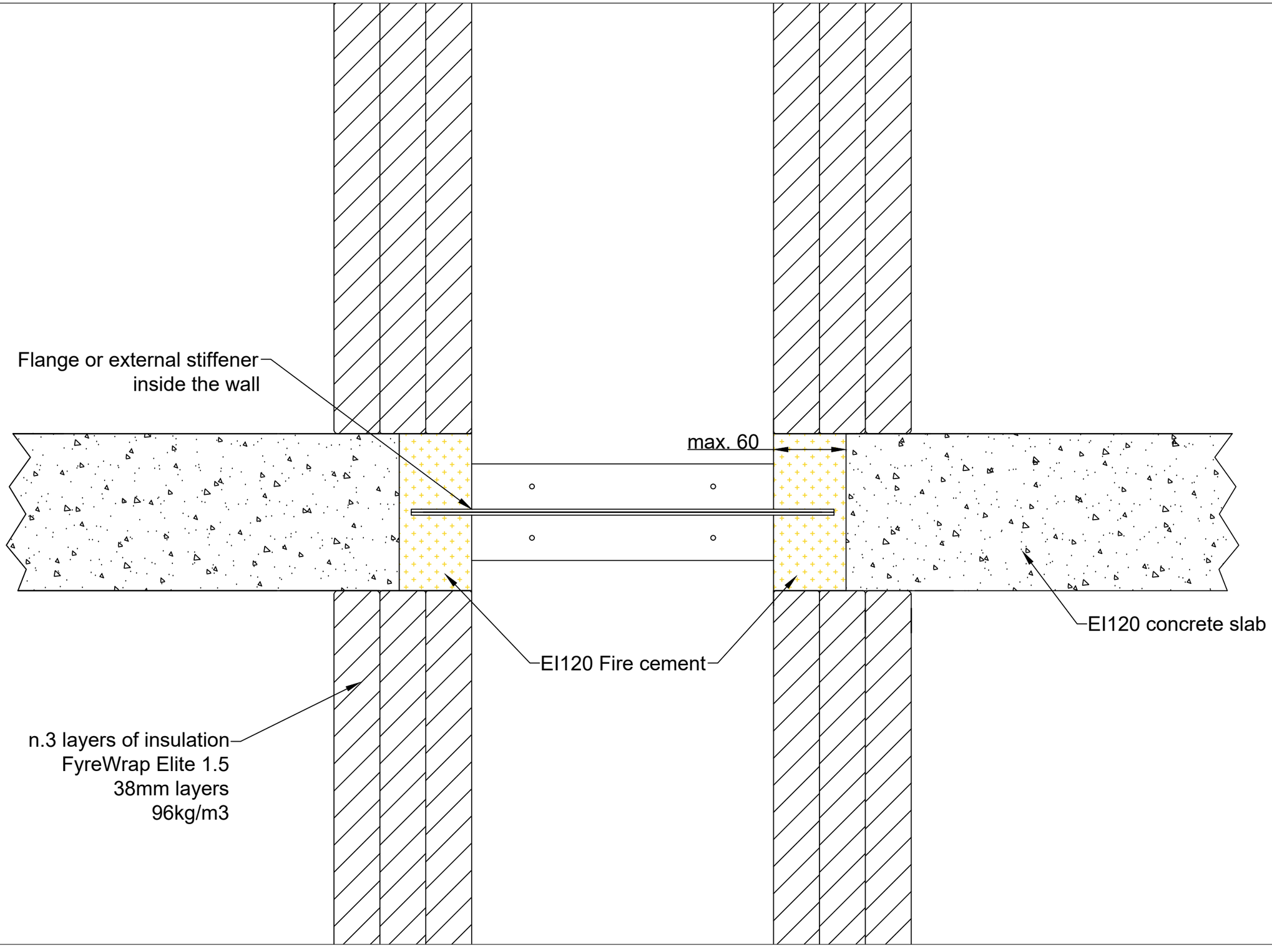
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TITLE
Penetration details – Rigid wall
EN1366-8 Smoke Extract
EI120

DRN: EA	CKD: MR	JOB NO:	DWG NO:
DATE: 13/05/25			TD1_TS_04R
SCALE NTS (A3)		REV NO: 1	CAD:



REV	DESCRIPTION	DATE	BY	CKD
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Technical Submittal

TITLE
Penetration details – Slab
EN1366-8 Smoke Extract
EI120

DRN: EA CKD: MR
DATE: 15/01/26
SCALE NTS (A3)
JOB NO:
REV NO: 1
DWG NO: TD1_TS_04S
CAD: