



REGULATORY INFORMATION REPORT

FC12454-004 ISSUE 1

FIRE RESISTANCE OF ABESCO CT120 AND CT240 CABLE AND PIPE TRANSITS

CLIENT

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United Kingdom



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REPORT OBJECTIVE

The purpose of this regulatory information report is to summarise the fire resistance, in accordance with AS 1530.4:2014 and AS 4072.1-2005, of Abesco CT120 and CT240 cable and pipe transits and enclosed penetration services when installed in fire rated elements of construction.

CONCLUSION

CT120 Transit systems

It is considered that the Integrity and Insulation of the CT120 cable transit penetration systems shown in Figure 1 to Figure 27 and associated penetration services, as established by test or assessment in accordance with AS 1530.4:2014 and AS 4072.1-2005, would be as detailed in the following tables.

Integrity of CT120 transit systems

System Configuration	Penetrated Element	Integrity (minutes)
Figures 1 to 5	Concrete slab at least 150 mm thick	240
Figures 6 and 8	Concrete slab at least 120 mm thick	60
Figures 7 and 9	Concrete slab at least 150 mm thick	240
Figures 10 and 11	Concrete slab at least 150 mm thick	240
Figures 12 and 13	Concrete slab at least 150 mm thick	120
Figure 14	Concrete slab at least 150 mm thick	240
Figures 15 to 19	Concrete or masonry wall at least 150 mm thick	240
Figures 20 to 24	Framed fire rated plasterboard lined wall	120
Figure 25	Fire rated plasterboard laminated wall	120
Figures 26 and 27	Concrete or masonry wall at least 150 mm thick	240

For Figure 6 to Figure 9 and Figure 25 to Figure 27 the installation is deemed to achieve 0 Insulation performance. For the other installations given in the Figures refer to the following table for the Insulation performance.



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Insulation of CT120 transit systems

Designation	Enclosed service	Insulation (minutes)			
		PB/concrete Wall		150 mm Concrete floor	
Transit configuration		1,2,3	6	1,2,3	6
Cables to EN 13663-3 with 290 mm wide x 5 mm thick Insulwrap					
A1 to A3	Up to 10 x 1.5 mm ² 2C&E power cables	120	90	240	240
B	Up to two single core 95 mm ² power cables	120	90	180	180
C1	Single 4 Core 95 mm ² PVC sheathed power cable	120	90	120	120
C2	Single 4 Core 95 mm ² PVC sheathed power cable	120	90	120	120
C3	Single 4 Core 95 mm ² PVC sheathed power cable	120	90	90	90
D1	Single 4 core 185 mm ² power cable	120	90	90	90
D2	Single 4 core 185 mm ² power cable	120	90	180	180
D3	Single 4 core 185 mm ² power cable	120	90	120	120
E	Up to two single core 185 mm ² PVC power cables	120	90	90	90
F	100 mm dia. bundle of screened telecom cables PE sheathed	90	90	180	90
G1	One single core 95 mm ² PVC insulated unsheathed power cable	60	60	60	60
G2	One single core 185 mm ² PVC insulated unsheathed power cable	60	60	60	60
Cables to AS 1530.4					
D1 (a)	One single core 630 mm ² PVC sheathed power cable	30	-	60	-
D1 (b)	One 185 mm ² 3C&E PVC sheathed power cable	30	-	60	-
D1 (c)	Three 6 mm ² 3C&E PVC sheathed power cable	30	-	60	-
D1 (d)	Eight 16 mm ² 3C&E PVC sheathed power cable	30	-	60	-
Other cables					
	Up to 120 x Cat 6, 8 core com. Cables	60	-	120	-
	Up to 120 x Cat 5e 8 core com. cables	60	-	120	-
	Up to 25 RG6 coaxial cables	60	-	120	-
	Up to 17 x 6 mm ² 2C&E TPS power cable	60	-	60	-
Blank Transits					
	64 mm CT120	60*	60*	120	120
	102 mm CT120	0*	0	0 [#]	0 [#]
	50 mm CTR	60	NA	120	NA
	100 mm CTR	0	NA	0	NA
	150 mm CTR	0	NA	0	NA



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* Transit covered with 5 mm thick Insulwrap Insulation increased to 120 minutes.

Transit covered with 5 mm thick Insulwrap Insulation increased to 90 minutes.

The fire rated plasterboard wall (PB) in the above table shall be minimum of two layers of 13 mm fire rated plasterboard each side of a 64 mm deep steel stud and have achieved a fire resistance rating of at least -/120/120. The results for the plasterboard wall can also be applied to an equivalent thickness fire rated concrete wall.

In the above table where 5 mm thick Insulwrap is part of the protection system the transit body where it exits the element is to be protected with the Insulwrap and the penetration for the length defined in the table.

CT240 transit systems

It is also considered that the Integrity and Insulation of the CT240 cable and pipe transit penetration systems shown in Figure 2, Figure 10, Figure 16 and Figure 21 and associated penetration services, as established by test or assessment in accordance with AS 1530.4:2014 and AS 4072.1-2005, would be as detailed in the following tables.

Integrity of CT240 transit systems

Penetrated Element	Penetrations	Integrity (minutes)
Steel framed plasterboard lined wall at least 100 mm thick	Power or communication cables	120
AAC or concrete or masonry wall at least 150 mm thick	Power or communication cables	120
Concrete floor at least 150 mm thick	Power or communication cables	120
AAC or concrete or masonry wall at least 100 mm thick	Copper or steel pipes with K-flex pipe insulation continuous through the transit	240
AAC or concrete floor at least 150 mm thick	Copper or steel pipes with K-flex pipe insulation continuous through the transit	240



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Insulation of CT240 transits with cables to EN 13663-3 with 300 mm wide x 5 mm thick Insulwrap

Designation	Enclosed service	Insulation (minutes)	
		PB/concrete Wall	Concrete floor
Cables to EN 13663-3 with 300 mm wide x 5 mm thick Insulwrap			
A1 to A3	Up to 10 x 1.5 mm ² 2C&E power cables	120	120
B	Up to two single core 95 mm ² power cables	120	60
C1	Single 4 Core 95 mm ² PVC sheathed power cable	90	60
C2	Single 4 Core 95 mm ² PVC sheathed power cable	90	120
C3	Single 4 Core 95 mm ² PVC sheathed power cable	90	120
D1	Single 4 core 185 mm ² power cable	90	120
D2 & D3	Single 4 core 185 mm ² power cable	120	120
E	Up to two single core 185 mm ² PVC power cables	120	90
F	Bundle of screened telecom cables PE sheathed	120	120
G1	One single core 95 mm ² PVC insulated unsheathed power cable	120	90
G2	One single core 185 mm ² PVC insulated unsheathed power cable	120	-

Insulation of CT240 transits with K-flex insulated pipes

Designation	Enclosed service	Insulation (minutes)	
		Concrete Wall	150 mm Concrete floor
Pipes			
Copper	10 mm dia. with at least 6 mm thick K-flex	60	60
	28 mm dia. with at least 9 mm thick K-flex	60	60
	42 mm dia. with at least 13 mm thick K-flex	90	60
	42 mm dia. with at least 40 mm thick K-flex	90	60
Steel	10 mm dia. with at least 6 mm thick K-flex	90	60
	10 mm dia. with at least 19 mm thick K-flex	90	60
	25 mm dia. with at least 9 mm thick K-flex	60	60
	25 mm dia. with at least 25 mm thick K-flex	90	60
	40 mm dia. with at least 13 mm thick K-flex	90	60
	40 mm dia. with at least 40 mm thick K-flex	90	60
	63.5 mm dia. with at least 9 mm thick K-flex	60	60
	63.5 mm dia. with at least 32 mm thick K-flex	90	60
	88.9 mm dia. with at least 13 mm thick K-flex	90	60



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1. INTRODUCTION

This report gives BRANZ's summary of the fire resistance performance of the Abesco CT120 and CT240 cable and pipe transits, if tested in accordance with AS 1530.4:2014 and AS 4072.1-2005.

For the installation details for the CT120 cable and pipe transits refer to Figure 1 to Figure 27. For the installation details for the CT240 cable and pipe transits refer to Figure 2, Figure 10, Figure 16 and Figure 21.

2. BACKGROUND

BRANZ fire assessment report FC12454-003 provides details of the fire resistance and supporting test evidence for the Abesco CT120 and CT240 cable and pipe transits. This document provides a summary of that report.

3. CONCLUSION

3.1 CT120 Pipe and cable transits

It is considered that the Integrity and Insulation of the CT120 cable transit penetration systems shown in Figure 1 to Figure 27 and associated penetration services, as established by test or assessment in accordance with AS 1530.4:2014 and AS 4072.1-2005, would be as detailed in Table 1 for the Integrity performance and Table 2 for the Insulation performance.

For Figure 6 to Figure 9 and Figure 25 to Figure 27 the installation is deemed to achieve 0 Insulation performance. For the other installations given in the Figures refer to Table 2 for the Insulation performance.

Table 1: Integrity of CT120 transit systems

System Configuration	Penetrated Element	Integrity (minutes)
Figures 1 to 5	Concrete slab at least 150 mm thick	240
Figures 6 and 8	Concrete slab at least 120 mm thick	60
Figures 7 and 9	Concrete slab at least 150 mm thick	240
Figures 10 and 11	Concrete slab at least 150 mm thick	240
Figures 12 and 13	Concrete slab at least 150 mm thick	120
Figure 14	Concrete slab at least 150 mm thick	240
Figures 15 to 19	Concrete or masonry wall at least 150 mm thick	240
Figures 20 to 24	Framed fire rated plasterboard lined wall	120
Figure 25	Fire rated plasterboard laminated wall	120
Figures 26 and 27	Concrete or masonry wall at least 150 mm thick	240



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Table 2: Insulation of CT120 transit systems

Designation	Enclosed service	Insulation (minutes)			
		PB/concrete Wall		150 mm Concrete floor	
Transit configuration		1,2,3	6	1,2,3	6
Cables to EN 13663-3 with 290 mm wide x 5 mm thick Insulwrap					
A1 to A3	Up to 10 x 1.5 mm ² 2C&E power cables	120	90	240	240
B	Up to two single core 95 mm ² power cables	120	90	180	180
C1	Single 4 Core 95 mm ² PVC sheathed power cable	120	90	120	120
C2	Single 4 Core 95 mm ² PVC sheathed power cable	120	90	120	120
C3	Single 4 Core 95 mm ² PVC sheathed power cable	120	90	90	90
D1	Single 4 core 185 mm ² power cable	120	90	90	90
D2	Single 4 core 185 mm ² power cable	120	90	180	180
D3	Single 4 core 185 mm ² power cable	120	90	120	120
E	Up to two single core 185 mm ² PVC power cables	120	90	90	90
F	100 mm dia. bundle of screened telecom cables PE sheathed	90	90	180	90
G1	One single core 95 mm ² PVC insulated unsheathed power cable	60	60	60	60
G2	One single core 185 mm ² PVC insulated unsheathed power cable	60	60	60	60
Cables to AS 1530.4					
D1 (a)	One single core 630 mm ² PVC sheathed power cable	30	-	60	-
D1 (b)	One 185 mm ² 3C&E PVC sheathed power cable	30	-	60	-
D1 (c)	Three 6 mm ² 3C&E PVC sheathed power cable	30	-	60	-
D1 (d)	Eight 16 mm ² 3C&E PVC sheathed power cable	30	-	60	-
Other cables					
	Up to 120 x Cat 6, 8 core com. Cables	60	-	120	-
	Up to 120 x Cat 5e 8 core com. cables	60	-	120	-
	Up to 25 RG6 coaxial cables	60	-	120	-
	Up to 17 x 6 mm ² 2C&E TPS power cable	60	-	60	-
Blank Transits					
	64 mm CT120	60*	60*	120	120
	102 mm CT120	0*	0	0 [#]	0 [#]
	50 mm CTR	60	NA	120	NA
	100 mm CTR	0	NA	0	NA
	150 mm CTR	0	NA	0	NA



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* Transit covered with 5 mm thick Insulwrap Insulation increased to 120 minutes.

Transit covered with 5 mm thick Insulwrap Insulation increased to 90 minutes.

The fire rated plasterboard wall (PB) in the above table shall be minimum of two layers of 13 mm fire rated plasterboard each side of a 64 mm deep steel stud and have achieved a fire resistance rating of at least -/120/120. The results for the plasterboard wall can also be applied to an equivalent thickness fire rated concrete wall.

In the above table where 5 mm thick Insulwrap is part of the protection system the transit body where it exits the element is to be protected with the Insulwrap and the penetration for the length defined in the table.

3.2 CT240 Pipe and cable transits

It is also considered that the Integrity and Insulation of the CT240 cable and pipe transit penetration systems shown in Figure 2, Figure 10, Figure 16 and Figure 21 and associated penetration services, as established by test or assessment in accordance with AS 1530.4:2014 and AS 4072.1-2005, would be as given in Table 3 for the Integrity performance and Table 4 and Table 5 for the Insulation performance.

Table 3: Integrity of CT240 transit systems

Penetrated Element	Penetrations	Integrity (minutes)
Steel framed plasterboard lined wall at least 100 mm thick	Power or communication cables	120
AAC or concrete or masonry wall at least 150 mm thick	Power or communication cables	120
Concrete floor at least 150 mm thick	Power or communication cables	120
AAC or concrete or masonry wall at least 100 mm thick	Copper or steel pipes with K-flex pipe insulation continuous through the transit	240
AAC or concrete floor at least 150 mm thick	Copper or steel pipes with K-flex pipe insulation continuous through the transit	240

Table 4: Insulation of CT240 transits with cables to EN 13663-3 with 300 mm wide x 5 mm thick Insulwrap

Designation	Enclosed service	Insulation (minutes)	
		PB/concrete Wall	Concrete floor
Cables to EN 13663-3 with 300 mm wide x 5 mm thick Insulwrap			
A1 to A3	Up to 10 x 1.5 mm ² 2C&E power cables	120	120
B	Up to two single core 95 mm ² power cables	120	60
C1	Single 4 Core 95 mm ² PVC sheathed power cable	90	60
C2	Single 4 Core 95 mm ² PVC sheathed power cable	90	120
C3	Single 4 Core 95 mm ² PVC sheathed power cable	90	120
D1	Single 4 core 185 mm ² power cable	90	120
D2 & D3	Single 4 core 185 mm ² power cable	120	120
E	Up to two single core 185 mm ² PVC power cables	120	90
F	Bundle of screened telecom cables PE sheathed	120	120
G1	One single core 95 mm ² PVC insulated unsheathed power cable	120	90
G2	One single core 185 mm ² PVC insulated unsheathed power cable	120	-

Table 5: Insulation of CT240 transits with K-flex insulated pipes

Designation	Enclosed service	Insulation (minutes)	
		Concrete Wall	150 mm Concrete floor
Pipes			
Copper	10 mm dia. with at least 6 mm thick K-flex	60	60
	28 mm dia. with at least 9 mm thick K-flex	60	60
	42 mm dia. with at least 13 mm thick K-flex	90	60
	42 mm dia. with at least 40 mm thick K-flex	90	60
Steel	10 mm dia. with at least 6 mm thick K-flex	90	60
	10 mm dia. with at least 19 mm thick K-flex	90	60
	25 mm dia. with at least 9 mm thick K-flex	60	60
	25 mm dia. with at least 25 mm thick K-flex	90	60
	40 mm dia. with at least 13 mm thick K-flex	90	60
	40 mm dia. with at least 40 mm thick K-flex	90	60
	63.5 mm dia. with at least 9 mm thick K-flex	60	60
	63.5 mm dia. with at least 32 mm thick K-flex	90	60
	88.9 mm dia. with at least 13 mm thick K-flex	90	60

Figure 1: Drawing No. F-CIR-001 – CT120 Floor seal with CT mounting flanges and Abesco fire sealant

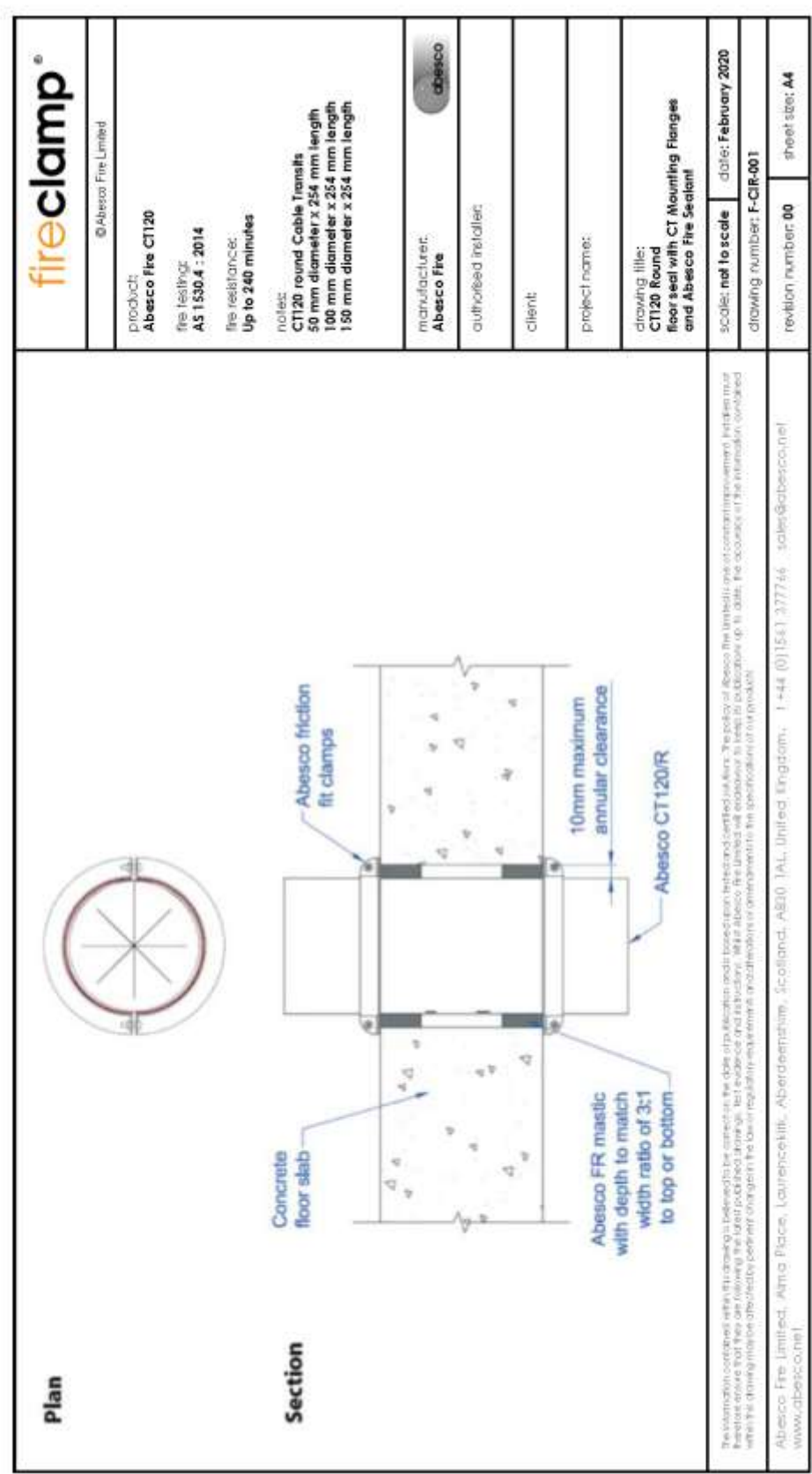


Figure 2: Drawing No. F-RECT-1-002 – CT120 Floor seal with CT mounting flanges and Abesco fire sealant

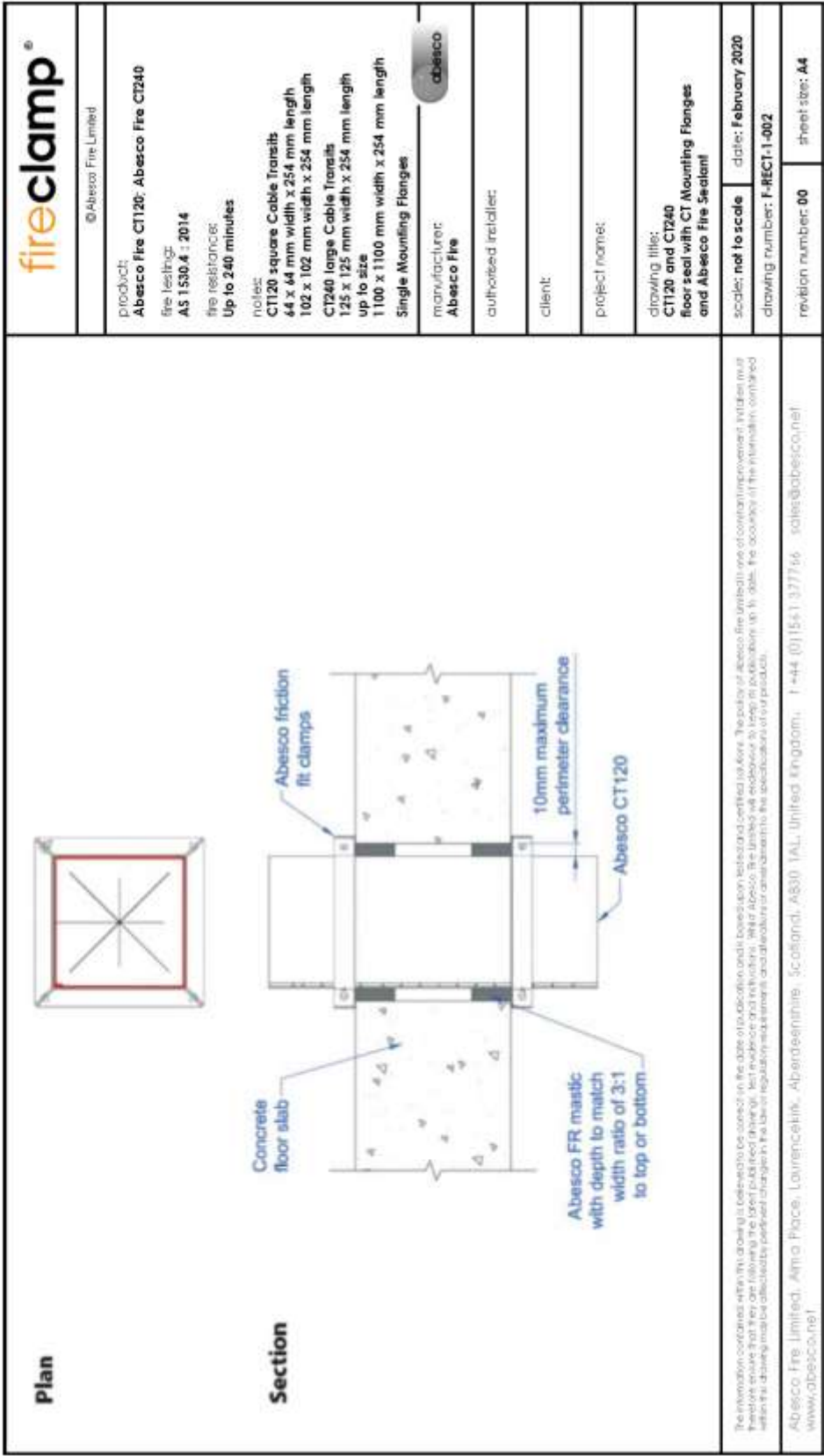


Figure 3: Drawing No. F-RECT-2-003 – CT120 Duplex floor seal with CT mounting flanges and Abesco fire sealant

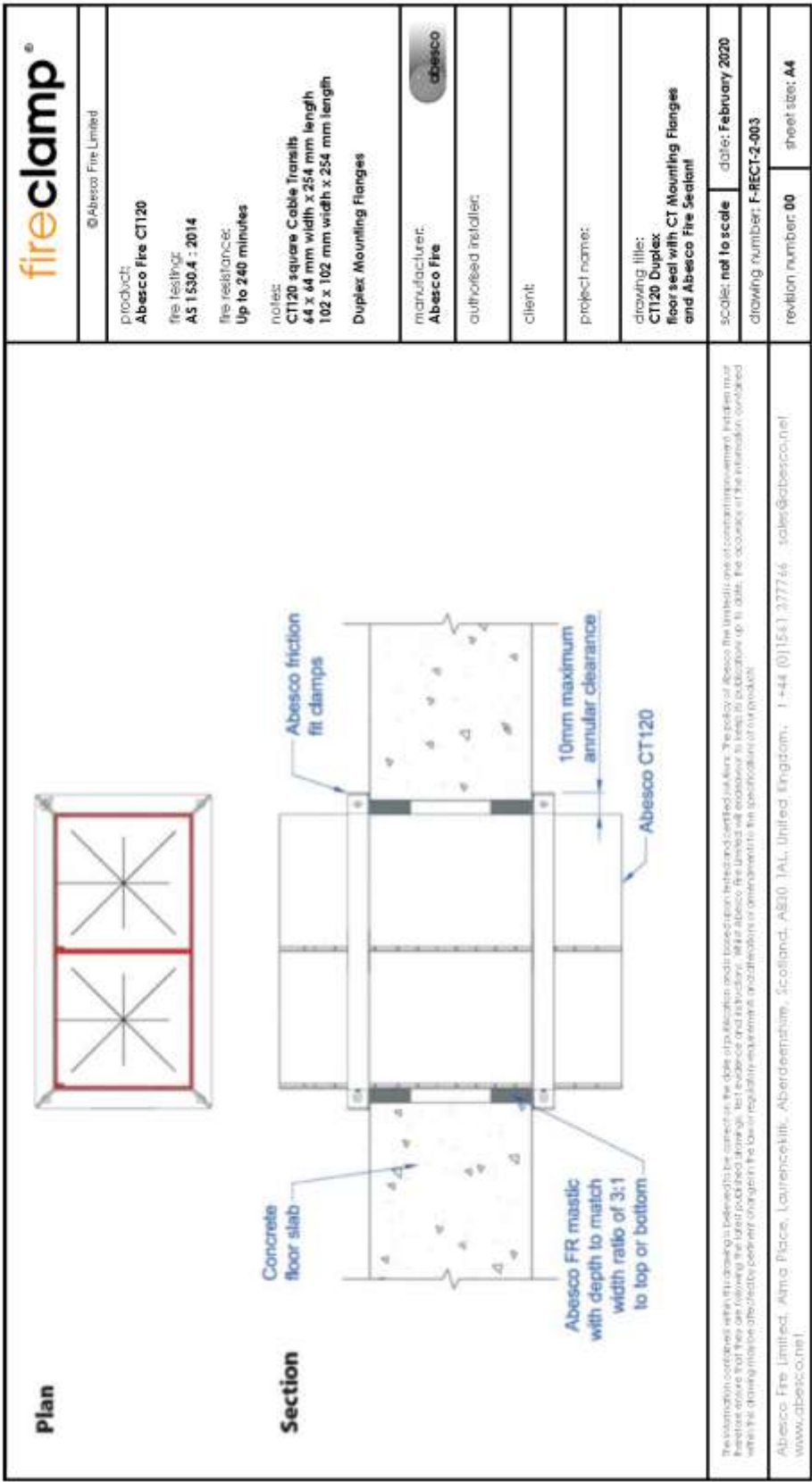


Figure 4: Drawing No. F-RECT-3-004 – CT120 Triplex floor seal with CT mounting flanges and Abesco fire sealant

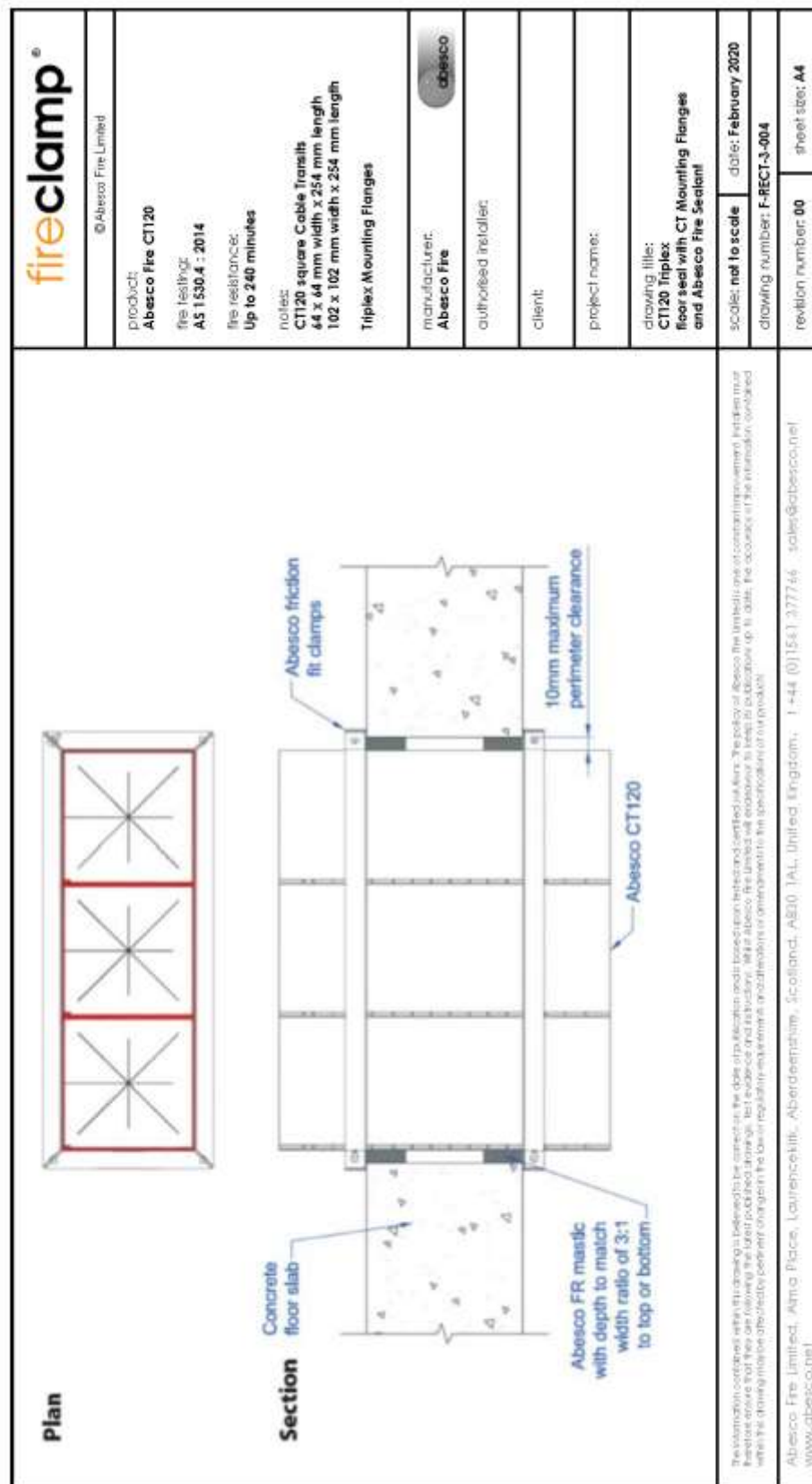


Figure 5: Drawing No. F-RECT-6-005 – CT120 Sixplex floor seal with CT mounting flanges and Abesco fire sealant

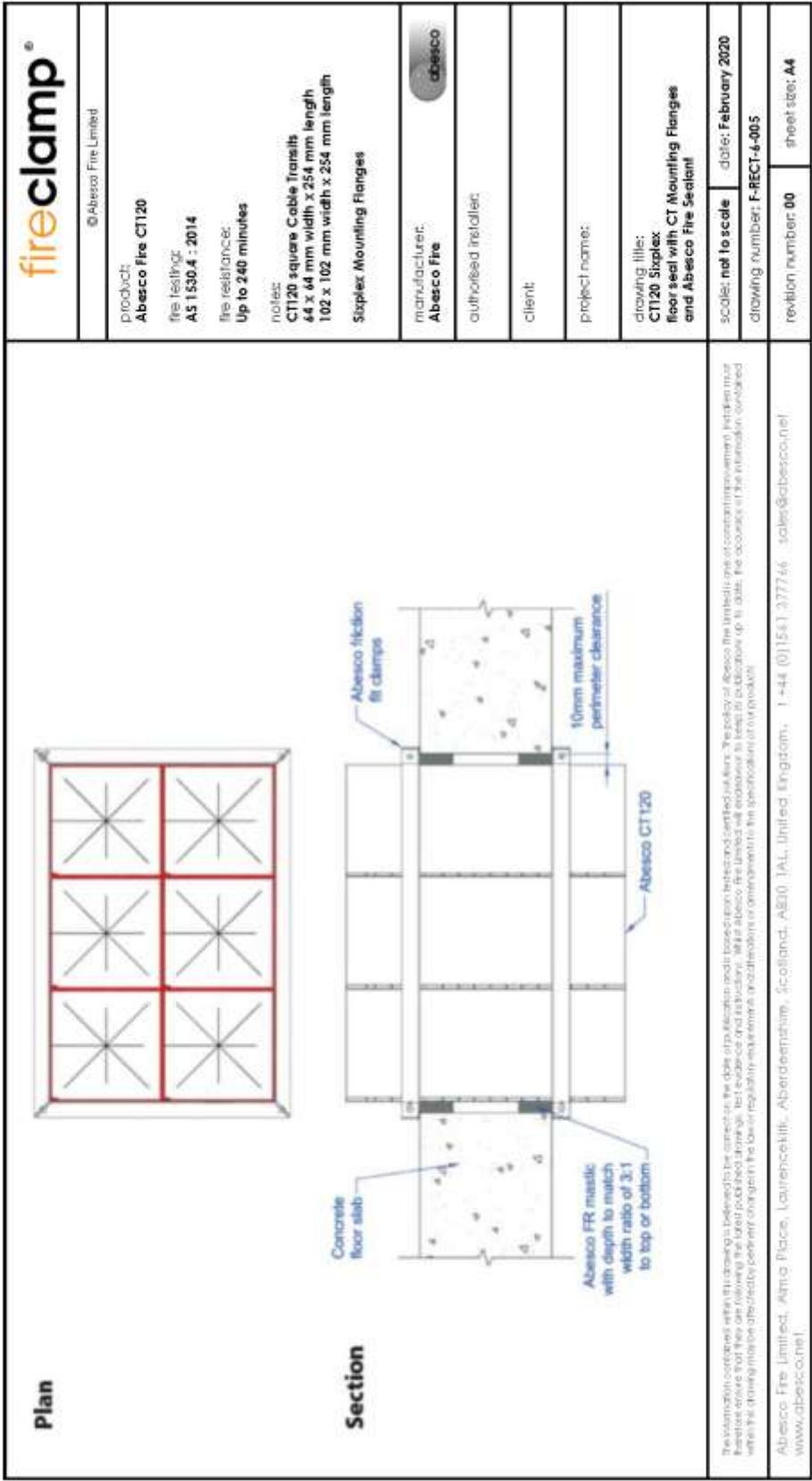


Figure 6: Drawing No. F-RECT-1-006 – CT120 Floor seal with CT angle tab mounting and Abesco fire sealant top side

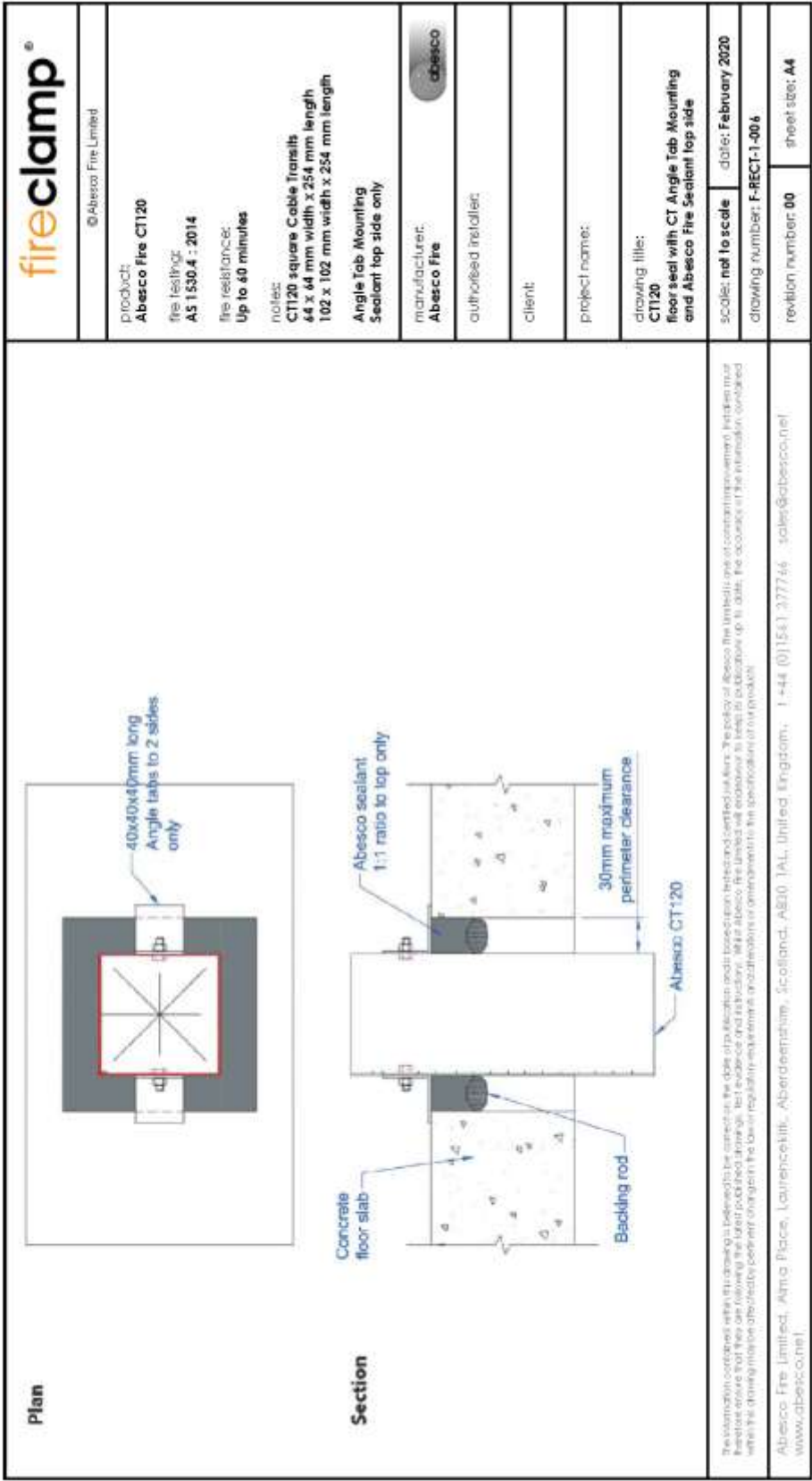


Figure 7: Drawing No. F-RECT-1-007 – CT120 Floor seal with CT angle tab mounting and Abesco fire sealant both sides

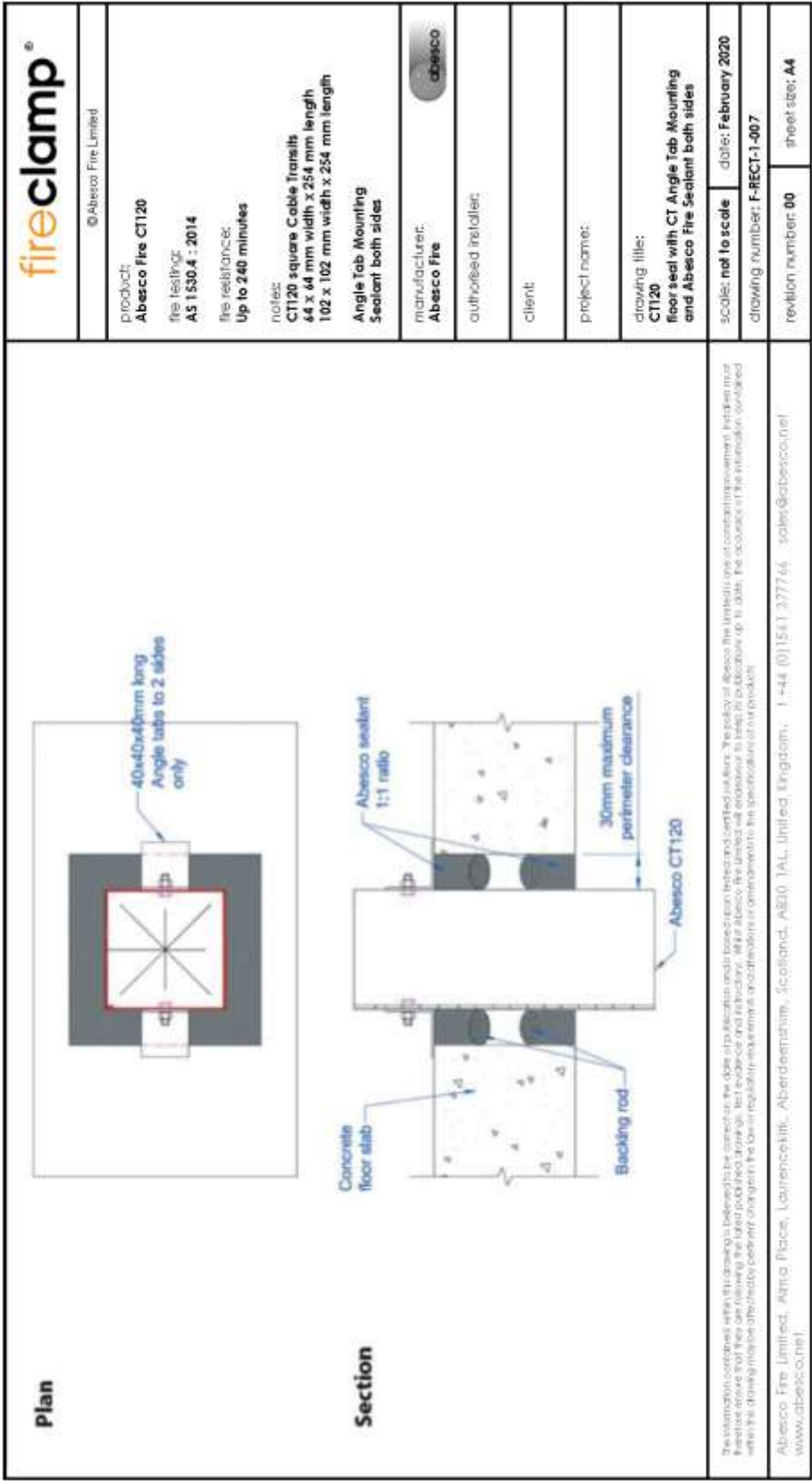


Figure 8: Drawing No. F-CIR-008 – CT120/R Floor seal with CT angle tab mounting and Abesco fire sealant top side

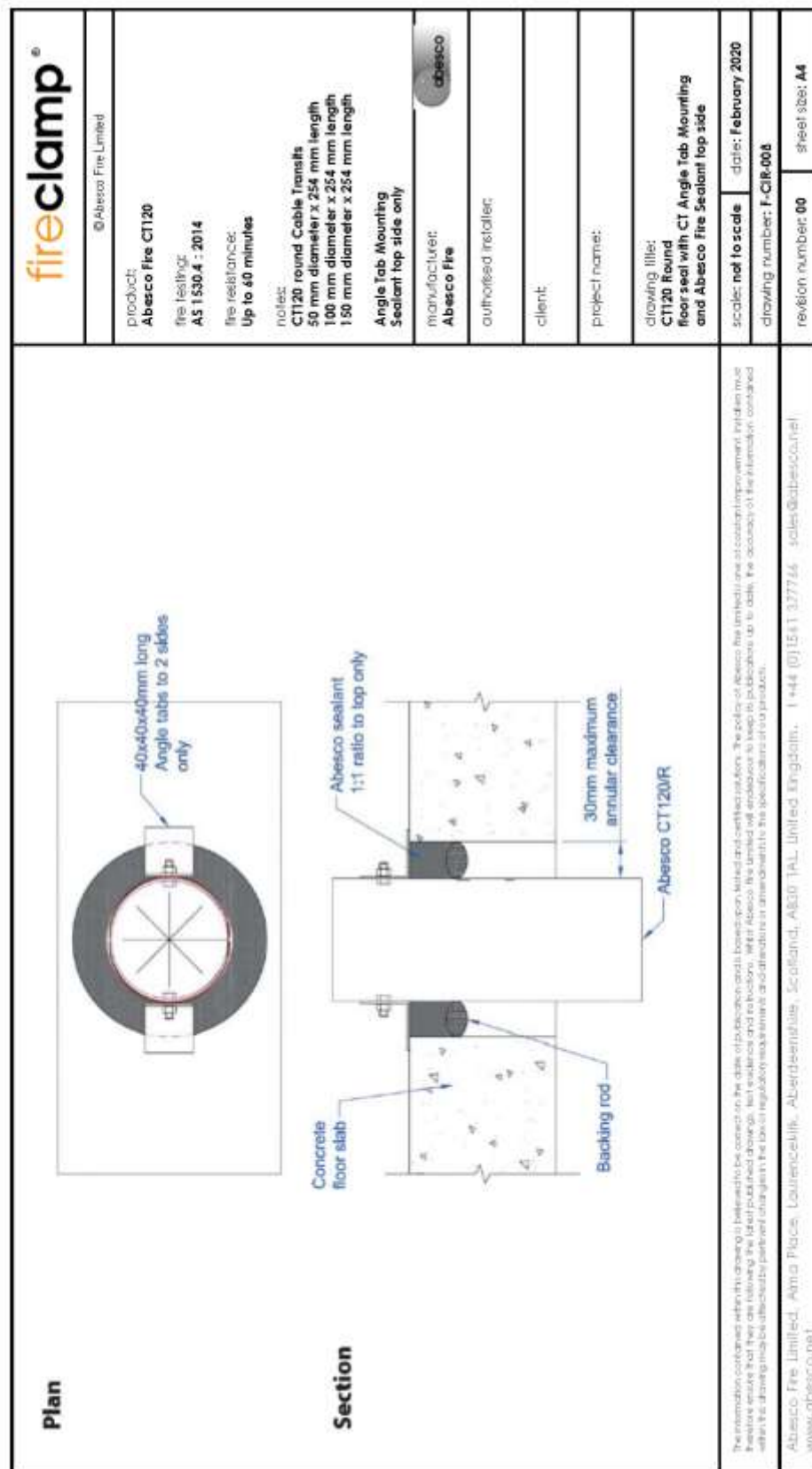


Figure 9: Drawing No. F-CIR-009 – CT120/R Floor seal with CT angle tab mounting and Abesco fire sealant both sides

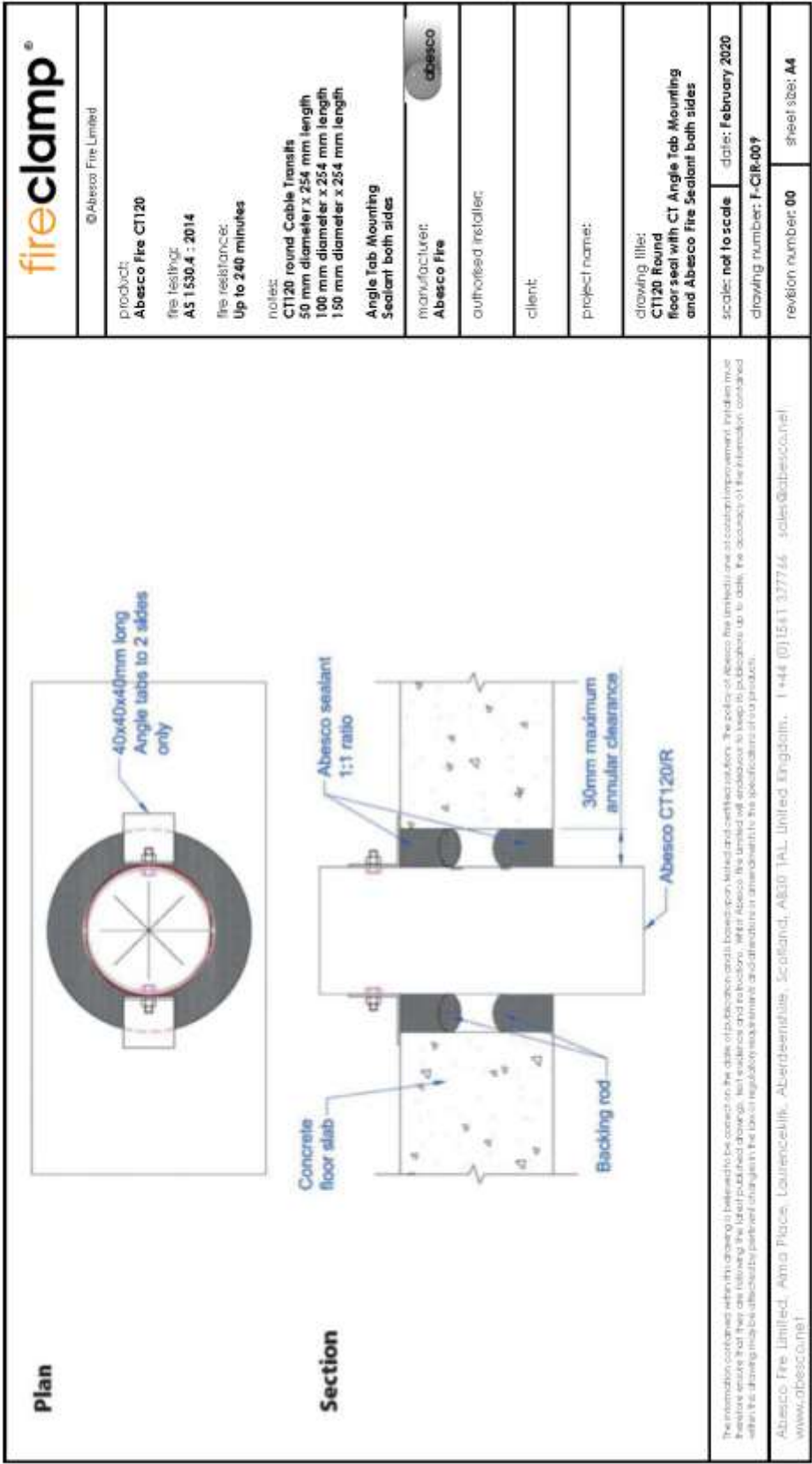
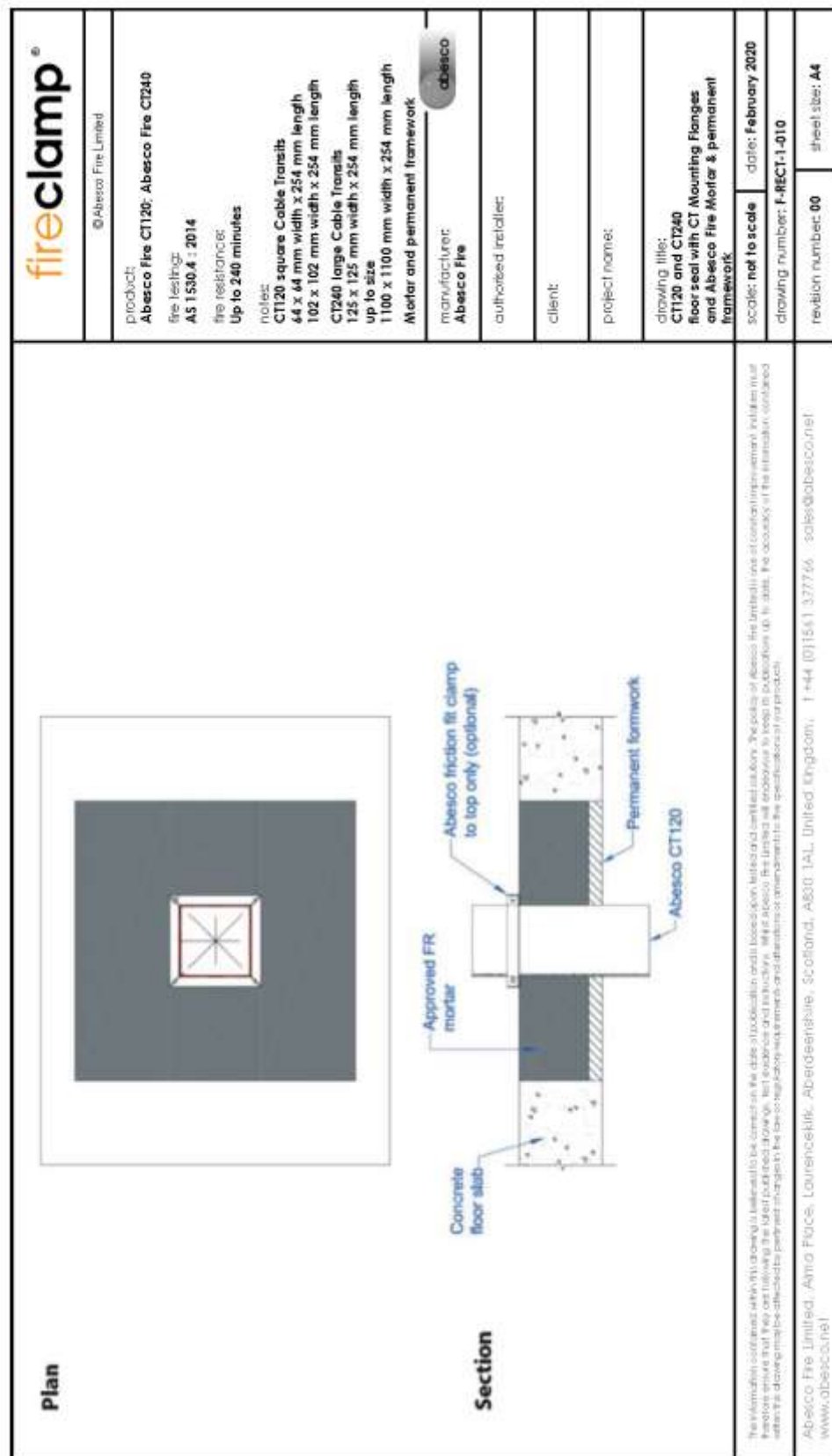


Figure 10: Drawing No. F-RECT-1-010 – CT120 Floor seal with CT mounting flange and Abesco fire mortar + permanent formwork





<p>Plan</p>		<p>© Abesco Fire Limited</p>
<p>Section</p>		<p>product: Abesco Fire CT120</p> <p>fire testing: AS 1530.4 : 2014</p> <p>fire resistance: Up to 240 minutes</p> <p>notes: CT120 round Cable Transits 50 mm diameter x 254 mm length 100 mm diameter x 254 mm length 150 mm diameter x 254 mm length</p> <p>Mortar and permanent framework</p>
		<p>manufacturer: Abesco Fire</p>
		<p>authorised installer:</p>
		<p>client:</p>
		<p>project name:</p>
		<p>drawing title: CT120 Round floor seal with CT Mounting Flanges and Abesco Fire Mortar & permanent framework</p>
	<p>scales: not to scale</p>	<p>date: February 2020</p>
	<p>drawing number: F-CIR-011</p>	<p>revision number 00</p>
		<p>sheet size: A4</p>

Figure 12: Drawing No. F-RECT-012 – CT120 Floor seal with Abesco fire mortar

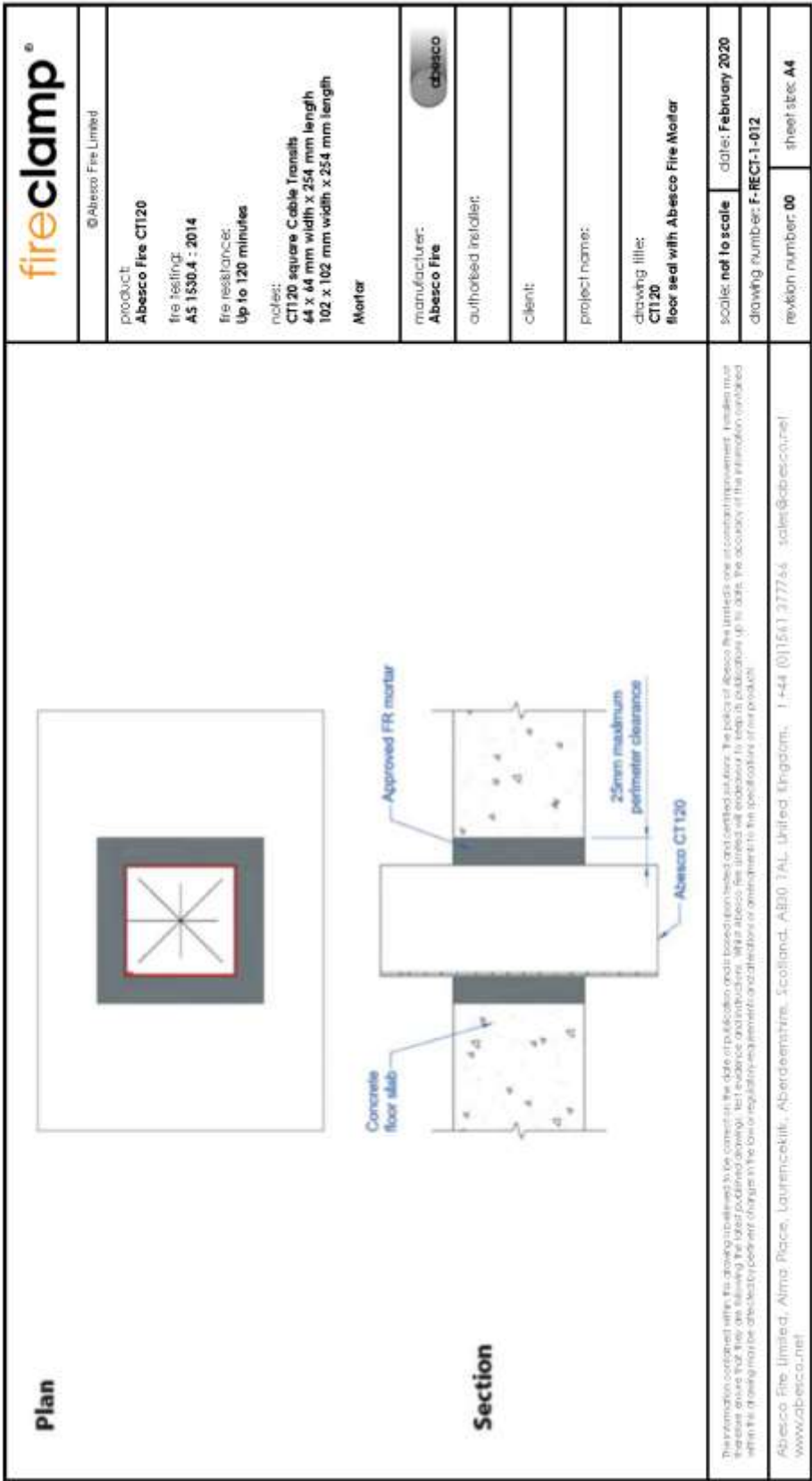


Figure 13: Drawing No. F-CIR-013 – CT120/R Floor seal with Abesco fire mortar

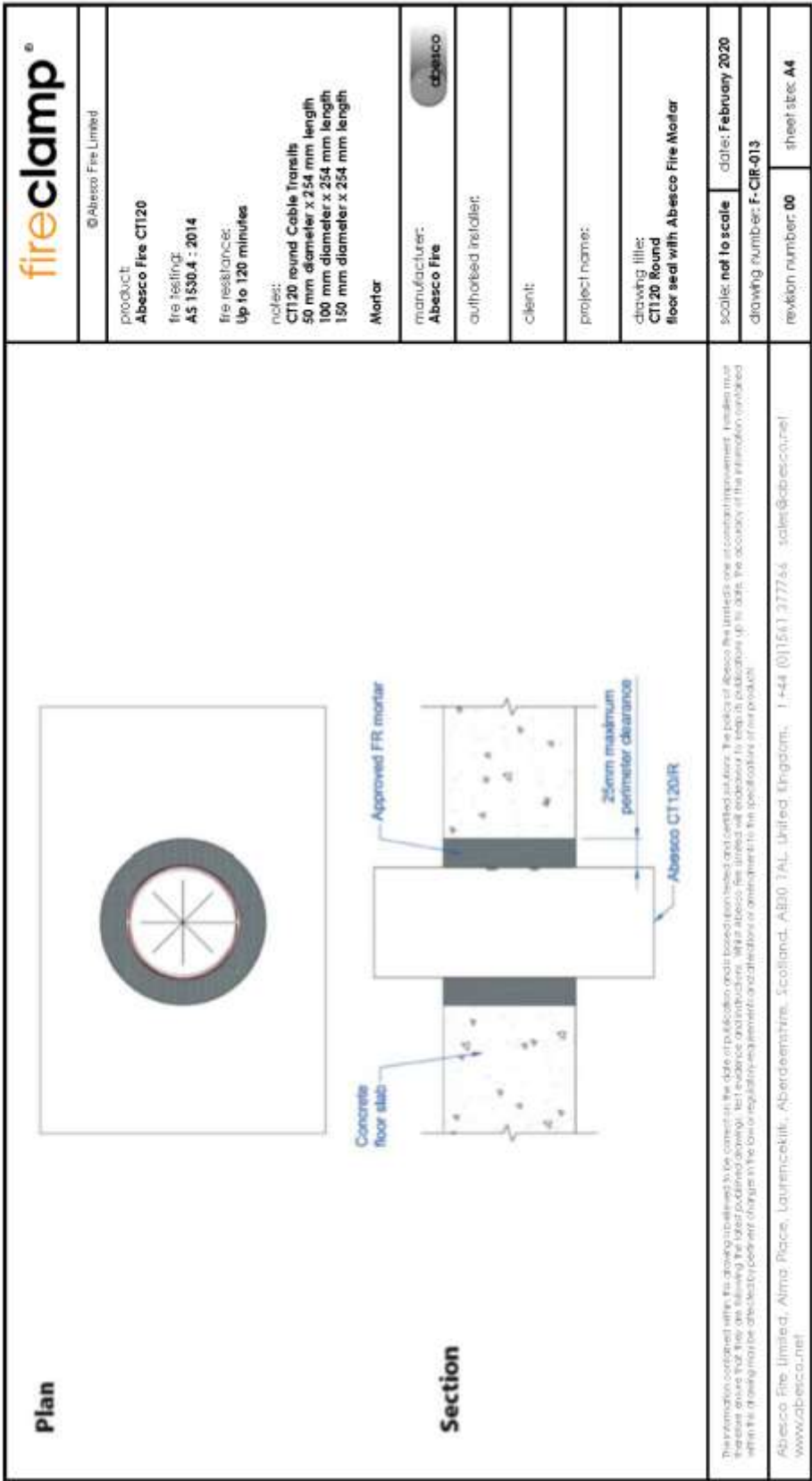
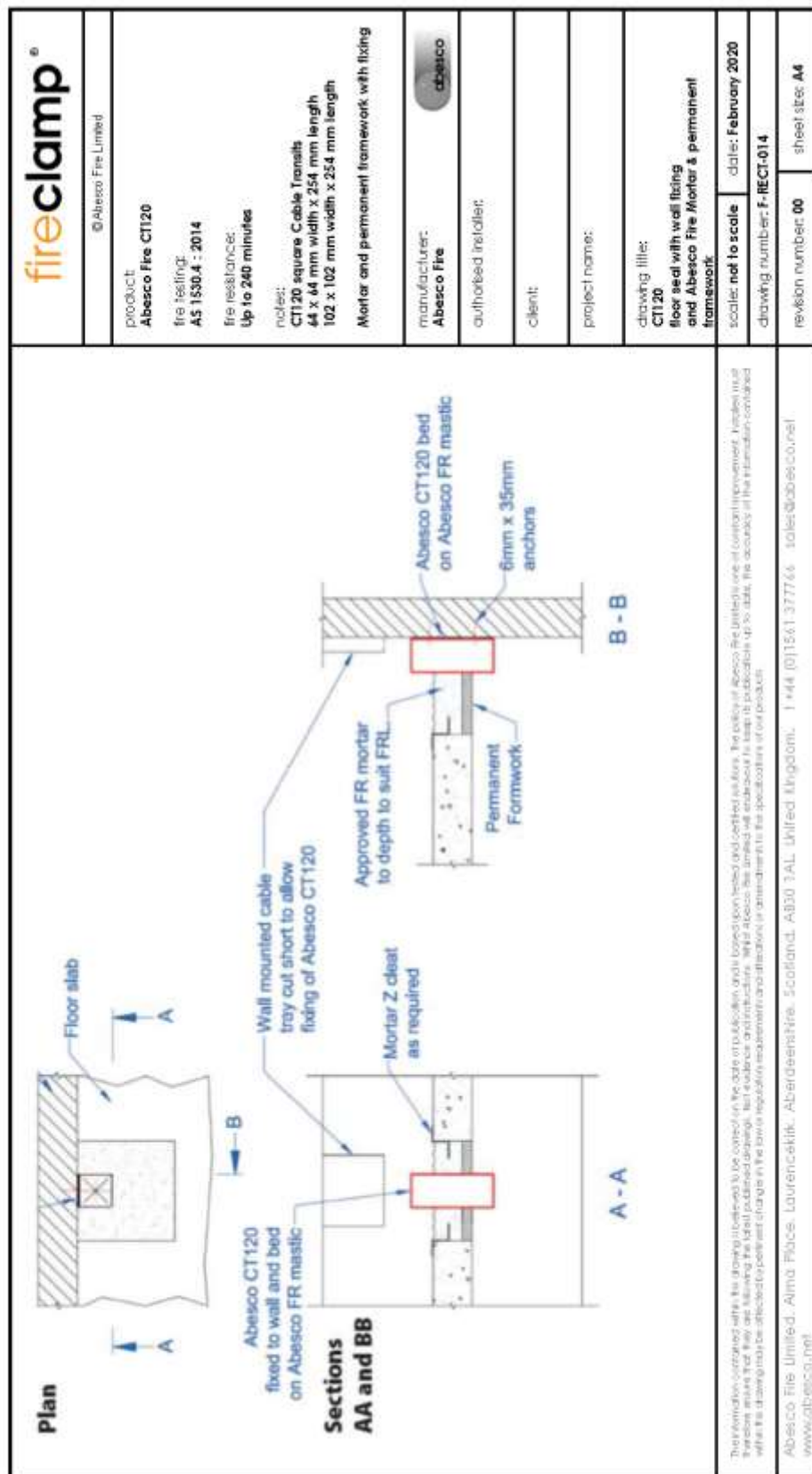


Figure 14: Drawing No. F-RECT-014 – CT120 Floor seal with wall fixing and Abesco fire mortar + permanent formwork





Section	Elevation
	
<p>product:</p> <p>Abesco Fire CT120</p> <p>fire testing:</p> <p>AS 1530.4 : 2014</p> <p>fire resistance:</p> <p>Up to 240 minutes</p> <p>notes:</p> <p>CT120 round Cable Transits</p> <p>50 mm diameter x 254 mm length</p> <p>100 mm diameter x 254 mm length</p> <p>150 mm diameter x 254 mm length</p>	<p>manufacturer:</p> <p>Abesco Fire</p> <p>authorised installer:</p> <p></p> <p>client:</p> <p></p> <p>project name:</p> <p></p> <p>drawing title:</p> <p>CT120 Round</p> <p>Rigid floor seal with CT Mounting Flanges</p> <p>and Abesco Fire Sealant</p>
<p>scale:</p> <p>not to scale</p> <p>drawing number:</p> <p>W-CIR-015</p>	<p>date:</p> <p>February 2020</p>
<p>revision number:</p> <p>00</p>	<p>sheet size:</p> <p>A4</p>

Figure 16: Drawing No. W-RECT-1-016 – CT120 Rigid wall seal with CT mounting flanges and Abesco fire sealant

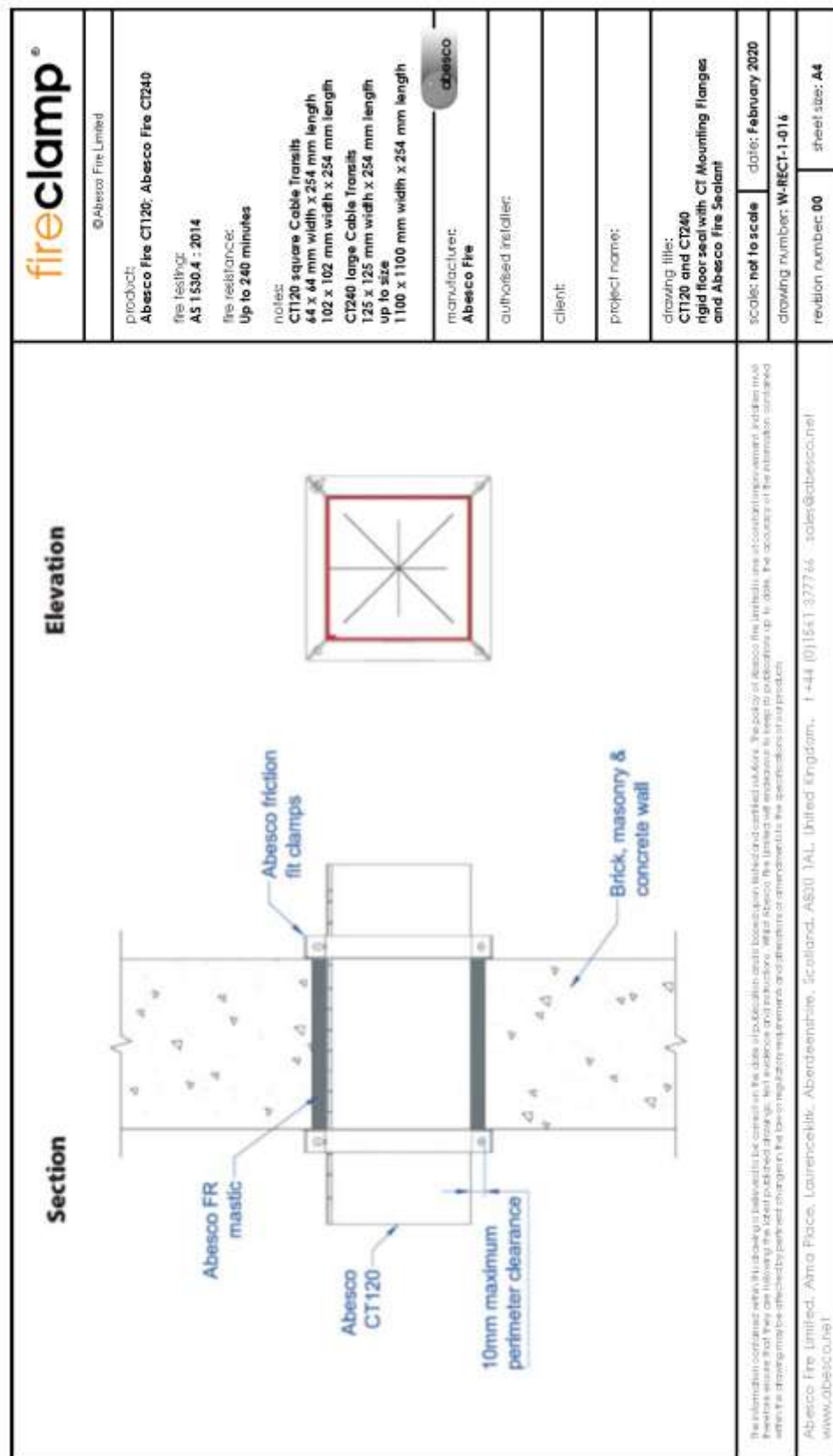


Figure 17: Drawing No. W-RECT-2-017 – CT120 Duplex rigid wall seal with CT mounting flanges and Abesco fire sealant

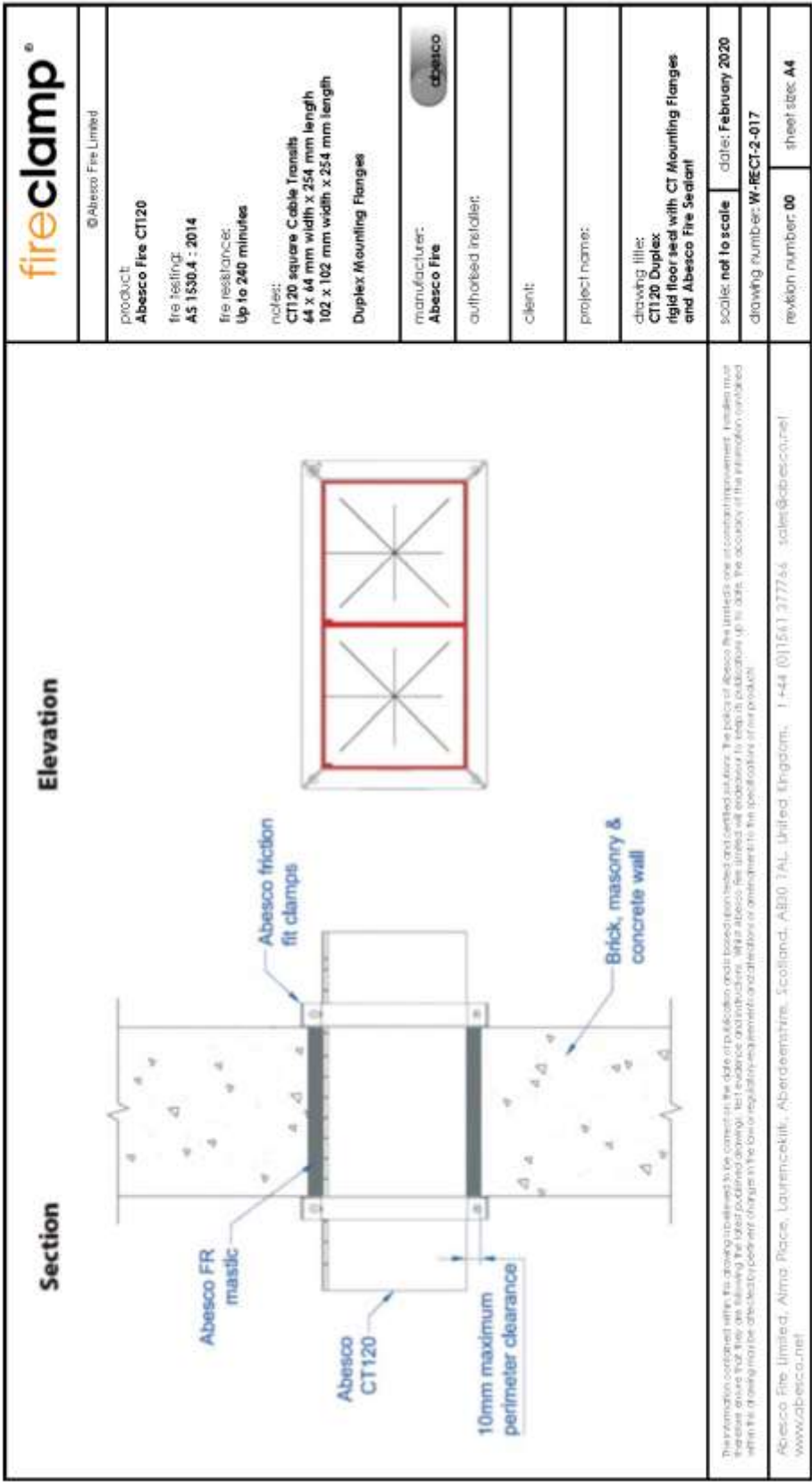


Figure 18: Drawing No. W-RECT-3-018 – CT120 Triplex rigid wall seal with CT mounting flanges and Abesco fire sealant

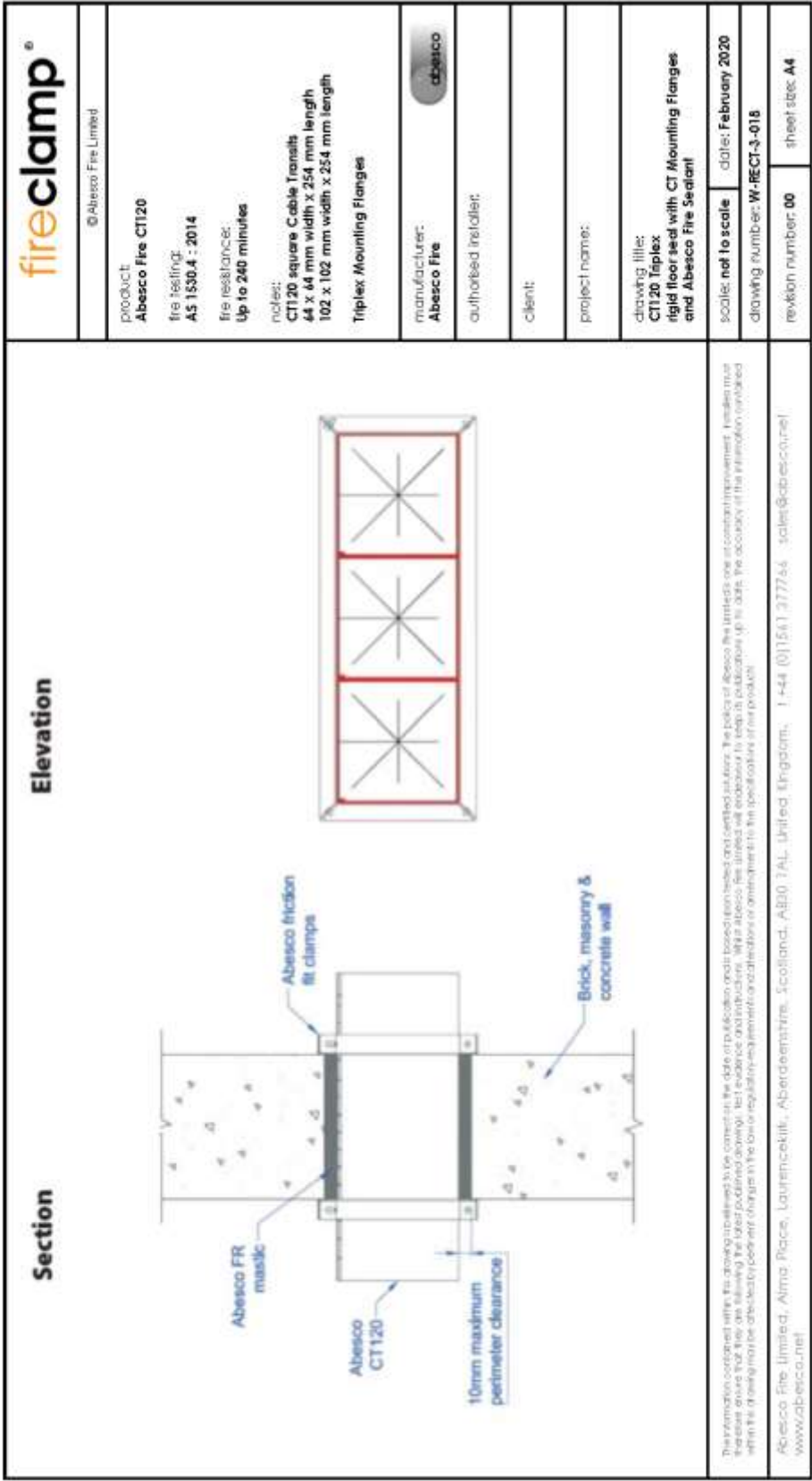


Figure 19: Drawing No. W-RECT-6-019 – CT120 Sixplex rigid wall seal with CT mounting flanges and Abesco fire sealant

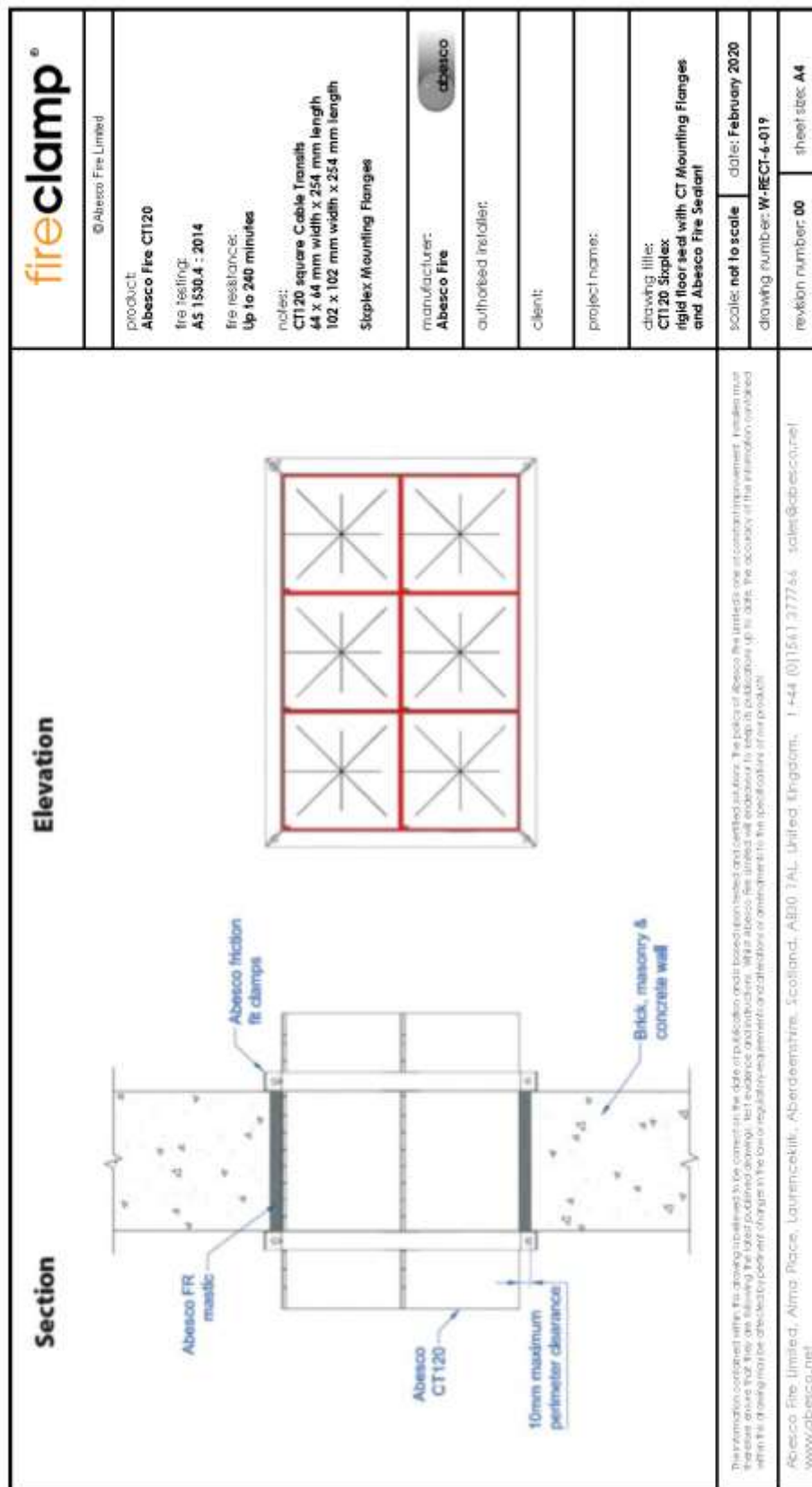


Figure 20: Drawing No. W-CIR-020 – CT120/R Flexible wall seal with CT mounting flanges and Abesco fire sealant

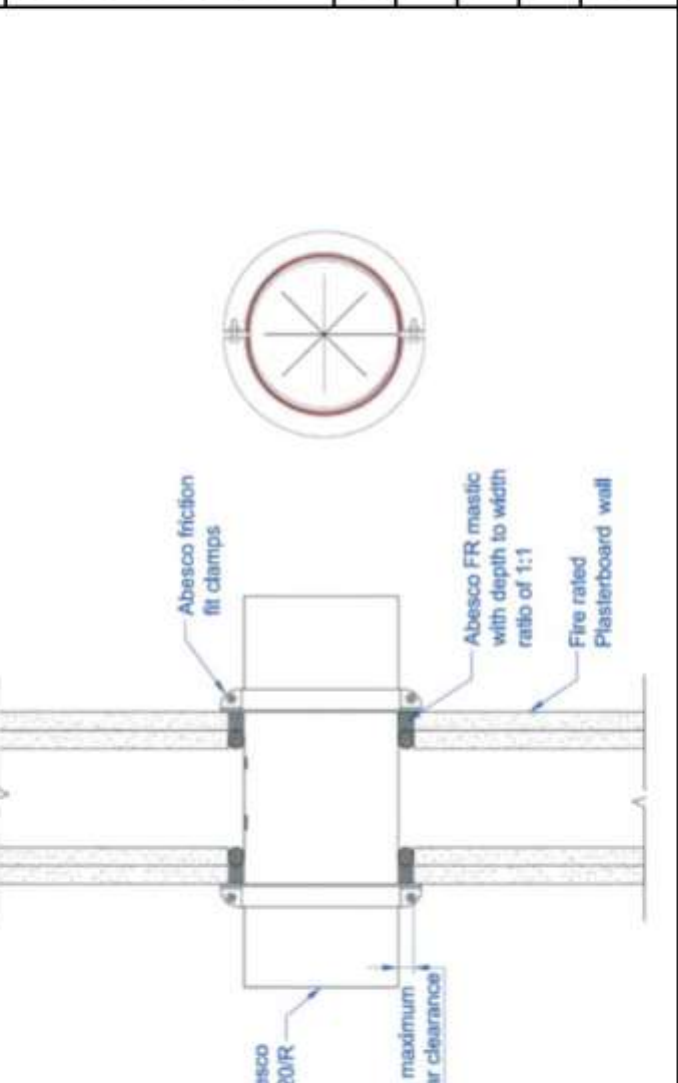
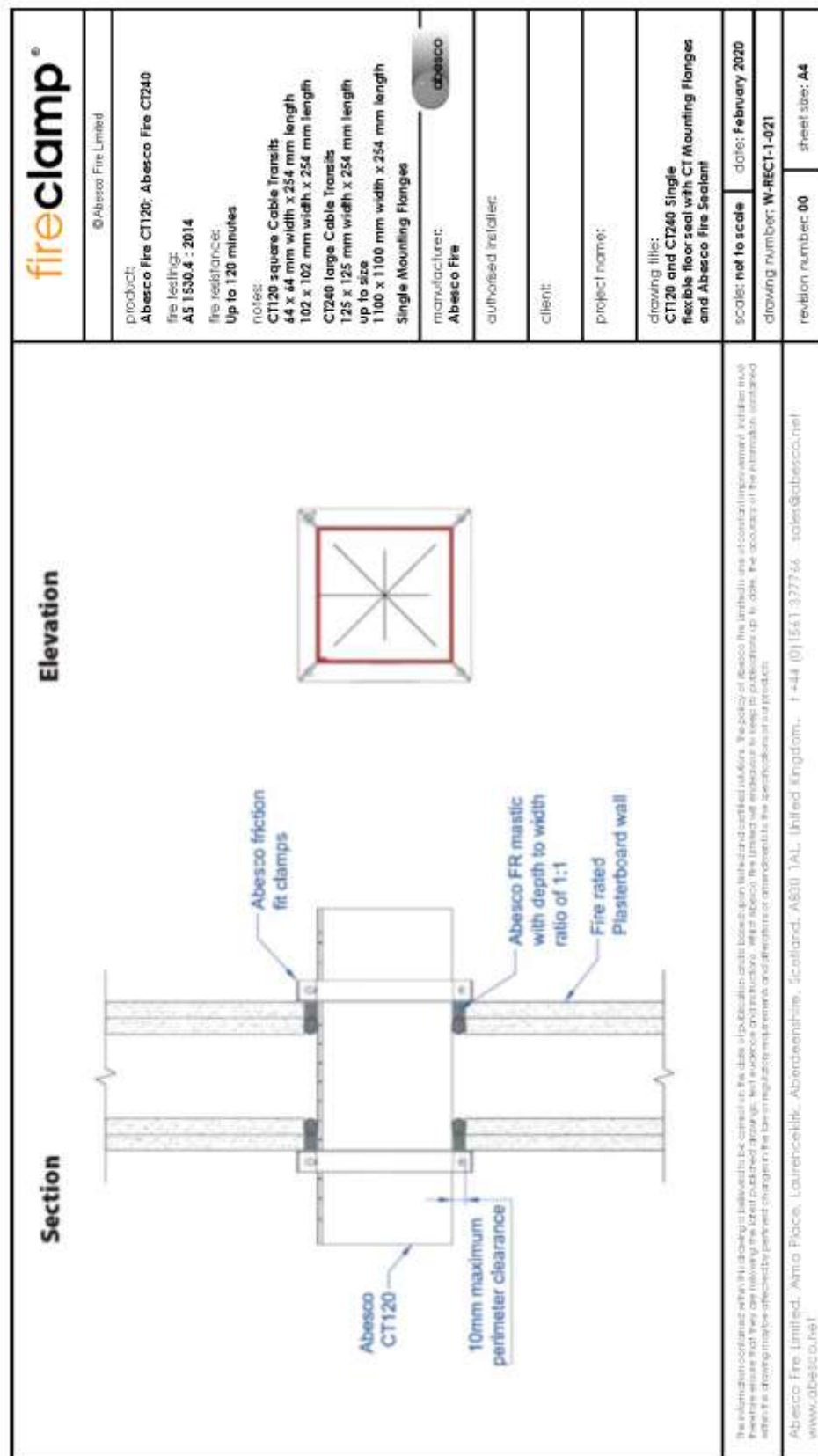
Section	Elevation
 <p>Abesco CT120/R</p> <p>10mm maximum annular clearance</p> <p>Abesco friction fit clamps</p> <p>Abesco FR mastic with depth to width ratio of 1:1</p> <p>Fire rated Plasterboard wall</p>	<p>© Abesco Fire Limited</p> <p>product: Abesco Fire CT120</p> <p>fire testing: A5 1530.4 : 2014</p> <p>fire resistance: Up to 120 minutes</p> <p>notes: CT120 round Cable Transits 50 mm diameter x 254 mm length 100 mm diameter x 254 mm length 150 mm diameter x 254 mm length</p> <p>manufacturer: Abesco Fire</p> <p>authorised installer:</p> <p>client:</p> <p>project name:</p> <p>drawing title: CT120 Round flexible wall seal with CT Mounting Flanges and Abesco Fire Sealant</p> <p>scale: not to scale date: February 2020</p> <p>drawing number: W-CIR-020</p> <p>revision number: 00 sheet size: A4</p>

Figure 21: Drawing No. W-RECT-1-021 – CT120 Flexible wall seal with CT mounting flanges and Abesco fire sealant



Section

Abesco CT120

10mm maximum perimeter clearance

Abesco friction fit clamps

Abesco FR mastic with depth to width ratio of 1:1

Fire rated Plasterboard wall

Elevation

The information contained within this drawing is believed to be correct; the client accepts all liability for any errors or omissions. The client agrees to indemnify and hold the manufacturer harmless from all claims, damages, costs and expenses, including legal fees, arising from any use of this drawing, whether or not such claims, damages, costs and expenses are caused in whole or in part by the negligence of the manufacturer.

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Figure 23: Drawing No. W-RECT-3-023 – CT120 Triplex flexible wall seal with CT mounting flanges and Abesco fire sealant

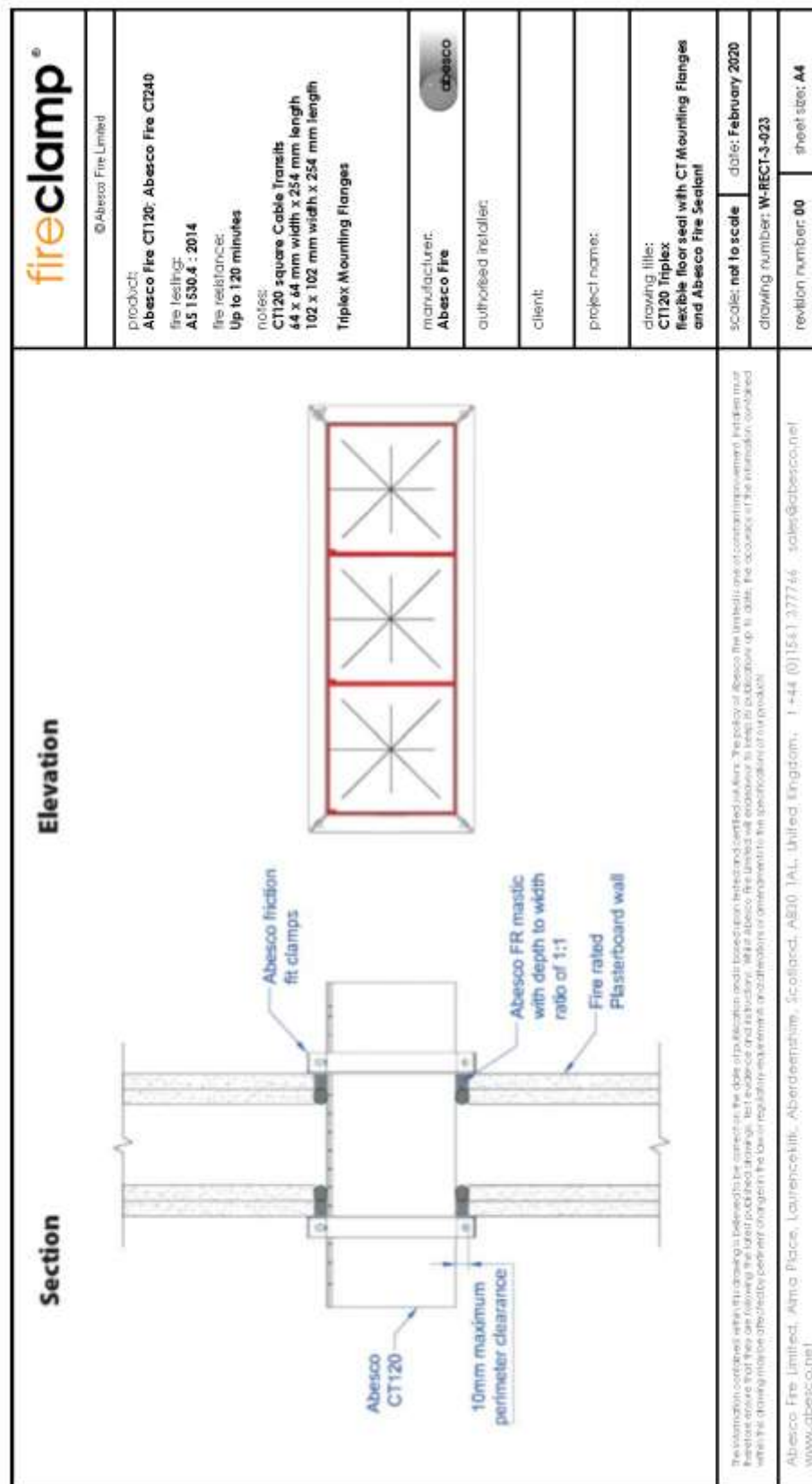


Figure 24: Drawing No. W-RECT-6-024 – CT120 Sixplex flexible wall seal with CT mounting flanges and Abesco fire sealant

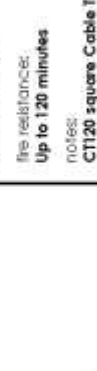

Section	Elevation
 <p>Abesco friction fit clamps</p> <p>Abesco FR mastic with depth to width ratio of 1:1</p> <p>Fire-rated Plasterboard wall</p> <p>note</p>	
<p>product: Abesco Fire CT120; Abesco Fire CT240</p> <p>fire testing: AS 1530.4 : 2014</p> <p>fire resistance: Up to 120 minutes</p> <p>notes: CT120 square Cable Transits 64 x 64 mm width x 254 mm length 102 x 102 mm width x 254 mm length</p> <p>Sixplex Mounting Flanges</p>	<p>manufacturer: Abesco Fire</p> <p>authorised installer:</p> <p>client:</p> <p>project name:</p> <p>drawing title: CT120 Sixplex flexible floor seal with CT Mounting Flanges and Abesco Fire Sealant</p> <p>scale: not to scale</p> <p>date: February 2020</p> <p>drawing number: W-RECT-6-024</p> <p>revision number: 00</p> <p>sheet size: A4</p>

Figure 25: Drawing No. W-RECT-1-025 – CT120 Laminated wall seal with CT mounting flanges and Abesco fire sealant

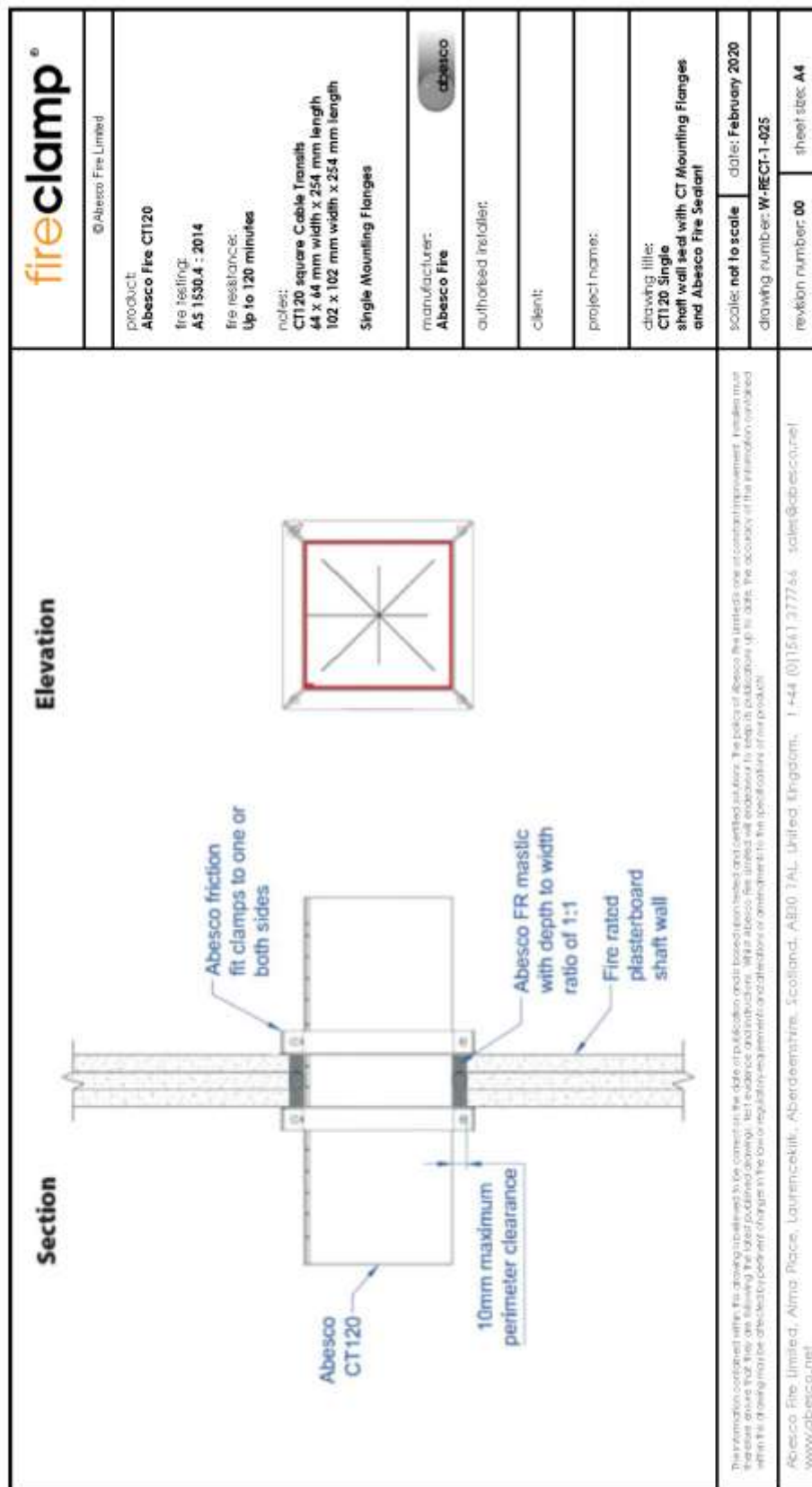


Figure 26: Drawing No. W-RECT-1-026 – CT120 Rigid wall seal with CT angle tab mounting and Abesco fire sealant both sides

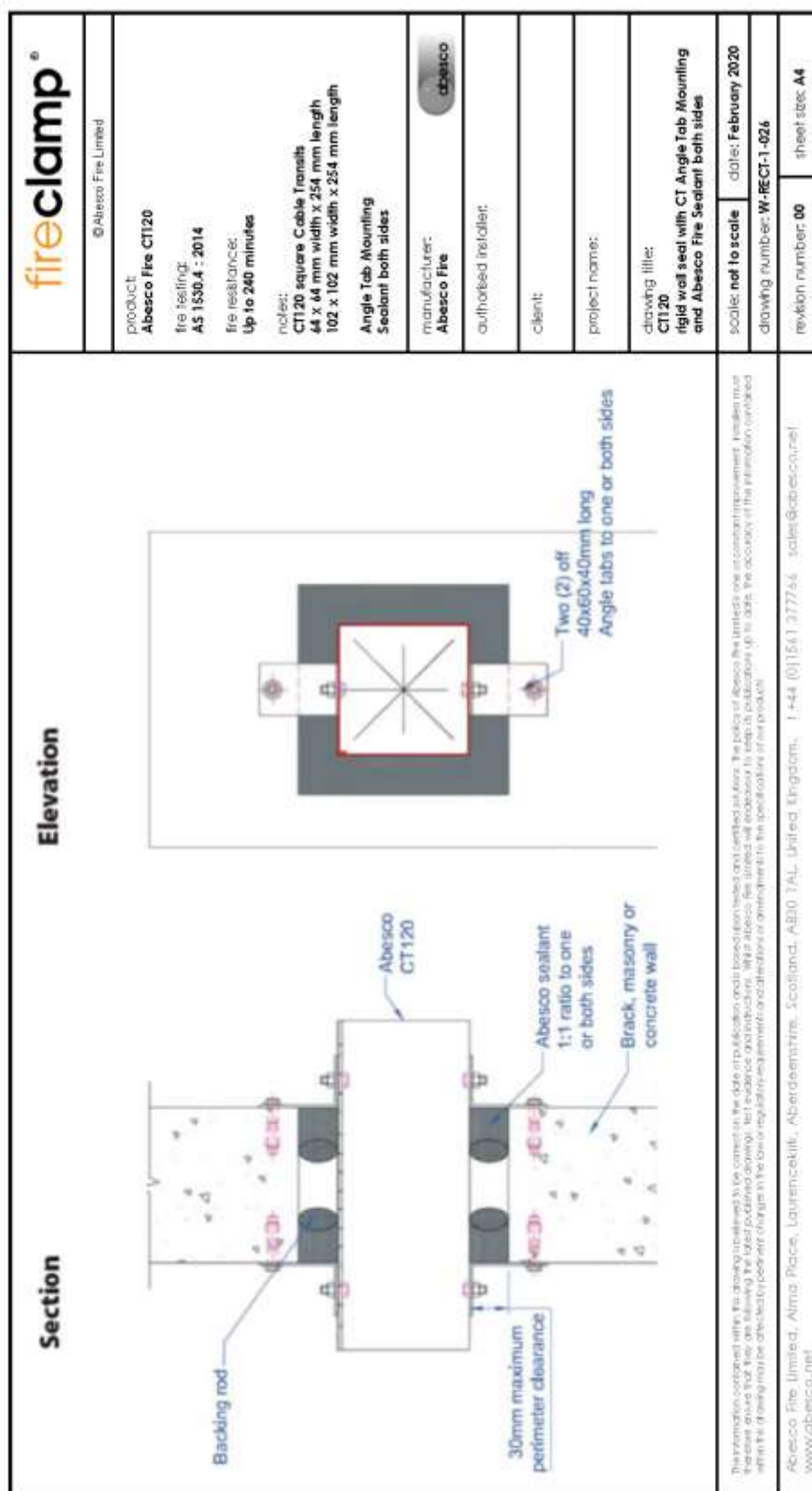


Figure 27: Drawing No. W-CIR-027 – CT120/R Rigid wall seal with CT angle tab mounting and Abesco fire sealant both sides

