

# **REGULATORY INFORMATION REPORT** FC12454-002 ISSUE 1

FIRE RESISTANCE OF ABESCO CT120 CABLE TRANSITS

CLIENT

Abesco Fire Limited Alma Place Laurencekirk Aberdeenshire Scotland AB30 1AL United Kingdom



### **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 cable transits and enclosed penetration services when installed in fire rated elements of construction.

### CONCLUSION

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.

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

#### Integrity of CT120 transit systems

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.



#### Insulation of CT120 transit systems

			Insulation (minutes)			
Designation Enclosed service		PB/concrete		150 mm		
Doorgination		Wall		Concrete		
				floor		
Transit configuration 1,2,3			6	1,2,3	6	
C	ables to EN 13663-3 with 290 mm wide x 5 m	nm thick	Insulwra	ap	0.40	
A1 to A3	Up to 10 x 1.5 mm <sup>2</sup> 2C&E power cables	120	90	240	240	
В	Up to two single core 95 mm <sup>2</sup> power cables	120	90	180	180	
C1	Single 4 Core 95 mm <sup>2</sup> PVC sheathed power cable	120	90	120	120	
C2	Single 4 Core 95 mm <sup>2</sup> PVC sheathed power cable	120	90	120	120	
C3	Single 4 Core 95 mm <sup>2</sup> PVC sheathed power cable	120	90	90	90	
D1	Single 4 core 185 mm <sup>2</sup> power cable	120	90	90	90	
D2	Single 4 core 185 mm <sup>2</sup> power cable	120	90	180	180	
D3	Single 4 core 185 mm <sup>2</sup> power cable	120	90	120	120	
E	Up to two single core 185 mm <sup>2</sup> PVC power cables	120	90	90	90	
F	100 mm dia. bundle of screened telecom 90 cables PE sheathed			180	90	
G1	One single core 95 mm <sup>2</sup> PVC insulated unsheathed power cable	60	60	60	60	
G2	One single core 185 mm <sup>2</sup> PVC insulated unsheathed power cable	60	60	60	60	
	Cables to AS 1530.4					
D1 (a)	D1 (a) One single core 630 mm <sup>2</sup> PVC sheathed power 30 - 60 -					
D1 (b)	One 185 mm <sup>2</sup> 3C&E PVC sheathed power cable	30	-	60	-	
D1 (c)	Three 6 mm <sup>2</sup> 3C&E PVC sheathed power cable	30	-	60	-	
D1 (d)	Eight 16 mm <sup>2</sup> 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 <sup>2</sup> 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.

<sup>#</sup> 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.

#### LIMITATION

This report is subject to the accuracy and completeness of the information supplied.

BRANZ reserves the right to amend or withdraw this assessment if information becomes available which indicates the stated fire performance may not be achieved.

This assessment report may only be quoted or reproduced in full.

#### **TERMS AND CONDITIONS**

This report is issued in accordance with the Terms and Conditions as detailed and agreed in BRANZ Services Agreement for this work.

The results reported here relate only to the item/s described in this report.



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and Abesco fire sealant both sides
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and Abesco fire sealant both sides



#### **SIGNATORIES**

Author

M. E. Godkin Senior Fire Testing Engineer BRANZ

non

Reviewer

P. Chapman Senior Fire Testing Engineer BRANZ

#### **DOCUMENT REVISION STATUS**

ISSUE NO.	DATE ISSUED	REVIEW DATE	DESCRIPTION
01	14 December 2020	14 December 2030	Initial Issue



# **1. INTRODUCTION**

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

For the installation details for the CT120 cable transits refer to Figure 1 to Figure 27.

# 2. BACKGROUND

BRANZ fire assessment report FC12454-001 provides details of the fire resistance and supporting test evidence for the Abesco CT120 cable transits. This document provides a summary of that report.

# 3. CONCLUSION

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.

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

#### Table 1: Integrity of CT120 transit systems



		Insulation (minutes)				
Designation Enclosed convice		PB/concrete		150 mm		
Designation	Enclosed service	W	all	Concrete		
				floor		
Transit configuration			6	1,2,3	6	
С	ables to EN 13663-3 with 290 mm wide x 5 m	nm thick	Insulwra	ар		
A1 to A3	Up to 10 x 1.5 mm <sup>2</sup> 2C&E power cables	120	90	240	240	
В	Up to two single core 95 mm <sup>2</sup> power cables	120	90	180	180	
C1	Single 4 Core 95 mm <sup>2</sup> PVC sheathed power cable	120	90	120	120	
C2	Single 4 Core 95 mm <sup>2</sup> PVC sheathed power cable	120	90	120	120	
C3	Single 4 Core 95 mm <sup>2</sup> PVC sheathed power cable	120	90	90	90	
D1	Single 4 core 185 mm <sup>2</sup> power cable	120	90	90	90	
D2	Single 4 core 185 mm <sup>2</sup> power cable	120	90	180	180	
D3	Single 4 core 185 mm <sup>2</sup> power cable	120	90	120	120	
E	Up to two single core 185 mm <sup>2</sup> 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 <sup>2</sup> PVC insulated unsheathed power cable	60	60	60	60	
G2	One single core 185 mm <sup>2</sup> PVC insulated	60	60	60	60	
	Cables to AS 1530.4					
D1 (a)	D1 (a) One single core 630 mm <sup>2</sup> PVC sheathed power 30 - 60 -					
D1 (b)	One 185 mm <sup>2</sup> 3C&E PVC sheathed power cable	30	-	60	-	
D1 (c)	Three 6 mm <sup>2</sup> 3C&E PVC sheathed power cable	30	-	60	-	
D1 (d)	Eight 16 mm <sup>2</sup> 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 <sup>2</sup> 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	

#### Table 2: Insulation of CT120 transit systems

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- \* Transit covered with 5 mm thick Insulwrap Insulation increased to 120 minutes.
- <sup>#</sup> 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.





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

 
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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

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

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Abesco fire sealant top side date: February 2020 sheet size: A4



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

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



date: February 2020 ireclamp sheet size: A4 Abesco Fire CT120: Abesco Fire CT240 floor seal with CT Mounting Flanges and Abesco Fire Mortar & permane Motor and permanent framework CT120 square Cable Transits 44 x 44 mm width x 254 mm leng 102 x 102 mm width x 254 mm le © Abesco Fire Limited drawing number: F-RECT-1-010 revision number 00 authorised installer. scale: not to scale the resistance: Up to 240 minutes Ite lesting: AS 1530.4 : 2014 manufacturer. Abesco Fire project name: drawing life: CT120 ramework product: client: notest soles wabe 1931(0) +++ Abesco friction fit clamp to top only (optional) United Ningdom, esco CT120 -Approved FR mortar ŝ 1.0 Concrete floor stat Almo-Place. Section Plan REPORT NUMBER: ISSUE DATE: REVIEW DATE: PAGE:

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

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Figure 11: Drawing No. F-CIR-011 – CT120/R Floor seal with CT mounting flange and Abesco fire mortar + permanent formwork



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

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Mortar and permanent framework with fixing date: February 2020 **Ireclamp** sheet strec A4 drawing title: CT120 floor seal with wall fitting and Abesco Fire Mortar & permanent CTI 20 square Cable Transits 44 x 64 mm width x 254 mm length 102 x 102 mm width x 254 mm length @Abesco Fire Limited drawing number: F-RECT-014 revision number: 00 Abesco Fire CT120 scale: not to scale authorised installer fre restance: Up to 240 minutes fre testing: AS 1530.4 : 2014 project name: manufacturer Abesco Fire framework phoduct clent: noles: on Abesco FR mastic -Abesco CT120 bed 6mm x 35mm anchons đ 8-8 Approved FR mortar to depth to suit FRI Permanent Formwork ... tray cut short to allow fixing of Abesco CT120 Wall mounted cable Mortar Z cleat Floor slab as required 1 -A-A Abesco CT120 fixed to wall and bed on Abesco FR mastic . AA and BB < Sections Plan REPORT NUMBER: ISSUE DATE: REVIEW DATE: PAGE: FC12454-002 ISSUE 1 14 December 2030 24 of 37 14 December 2020

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



Figure 15: Drawing No. W-CIR-015 – CT120/R Rigid wall seal with CT mounting flanges and Abesco fire sealant



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

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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

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



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

drowing ittle: CT120 Duptex flexible floor sed with CT Mounting Flanges and Abseco Fire Sealant date: February 2020 ireclamp sheet size; A4 Abesco Fire CT120; Abesco Fire CT240 CT120 square Cable Transits 64 x 64 mm width x 254 mm leng 102 x 102 mm width x 254 mm ler drawing rrumber; W-RECT-2-022 @Abesco Fire Limited **Duplex Mounting Flanges** revision number 00 authorised installer. scale; not to scale fre testing: A5 1530.4 : 2014 fire relationce: Up to 120 minutes manufacturer. Abesco Fire project name: products notes: client Elevation 7 Abesco friction fit clamps with depth to width ratio of 1:1 Abesco FR mastic Plasterboard wall Fire rated Section perimeter clearance 10mm maximum Abesco CT120-Ê REPORT NUMBER: ISSUE DATE: REVIEW DATE: PAGE: FC12454-002 ISSUE 1 32 of 37 14 December 2020 14 December 2030

Figure 22: Drawing No. W-RECT-2-022 – CT120 Duplex flexible wall seal with CT mounting flanges and Abesco fire sealant

drowing ittle: CT120 Triplex flexible floor seal with CT Mountling Flanges and Abseco Fire Sealant date: February 2020 ireclamp sheet size; A4 Abesco Fire CT120; Abesco Fire CT240 CT120 square Cable Transits 64 x 64 mm width x 254 mm leng 102 x 102 mm width x 254 mm le drawing rrumber; W-RECT-3-023 @Abesco Fire Limited Triplex Mounting Flanger revision number 00 authorised installer. scale; not to scale fire relationce: Up to 120 minutes fre testing: AS 1530.4 : 2014 project name: manufacturen Abesco Fire products 10165 client 7 Elevation Abesco friction Abesco FR mastic with depth to width ratio of 1:1 Fire rated Plasterboard wall fit clamps Section verimeter clearance 10mm maximum Abesco CT120 Ê REPORT NUMBER: ISSUE DATE: REVIEW DATE: PAGE: FC12454-002 ISSUE 1 33 of 37 14 December 2020 14 December 2030

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

drowing ittle: CT120 Stoplex flexible floor sed with CT Mounting Flanges and Abecco Fire Sealant date: February 2020 **ireclamp** sheet size; A4 Abesco Fire CT120; Abesco Fire CT240 drawing rrumber; W-RECT-6-024 @Abesco Fire Limited CT120 square Cable Transits 64 x 64 mm width x 254 mm len 102 x 102 mm width x 254 mm l Sixplex Mounting Flanger revision number 00 authorised installer. scale; not to scale fire relationce: Up to 120 minutes fre lesing: A5 1530.4 : 2014 manufacturer. Abesco Fire project name: products notes: client ł 7 Elevation Frie rated Plasterboard wall - Abesco FR mastic with depth to width ratio of 1;1 Abesco Mction fit clumps Section 8 Ê REPORT NUMBER: ISSUE DATE: REVIEW DATE: PAGE: FC12454-002 ISSUE 1 34 of 37 14 December 2020 14 December 2030

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



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