

CASWELL FIRESAFE[®] fire resisting ductwork is available in a variety of construction arrangements and performances.

To understand the product reference, the nomenclature is described here: -

Product Reference Nomenclature

CF / BS / Stability & Integrity / Insulation / Material / Construction Type / Shape

CF	– CASWELL FIRESAFE®
Spec	 BS Tested and Assessed to BS476-24 (1987) ISO 6944-1 (1985)
Stability and Integrity	 Performance Criteria (stated in hours)
Insulation	 Performance Criteria (00/01/02 – see table below)
Material	 – Galvanised steel (GS) / Stainless steel (SS) / Mild steel (MS)
Construction Type	 Type reference (01/02 – see table below)
Shape	– Rectangular (R) or Circular (C)

Insulation	Description
Performance	
00	Nil fire resistance insulation performance
01	25mm Rockwool 160kg/m3 which provides 30 minutes' fire resistance
02	40mm Rockwool 160kg/m3 which provides 60 minutes' fire resistance
03	70mm Rockwool 160kg/m3 which provides 90 minutes' fire resistance
04	90mm Rockwool 160kg/m3 which provides 120 minutes' fire resistance
05	130mm Rockwool 160kg/m3 c/w 13mm layer of Insulfrax S which provides 240
	minutes' fire resistance
06	40mm Rockwool 160kg/m3 which provides 30 minutes' fire resistance for a
	Kitchen extract system
07	90mm Rockwool 160kg/m3 which provides 60 minutes' fire resistance for a
	Kitchen extract system
08	130mm Rockwool 160kg/m3 which provides 120 minutes' fire resistance for a
	Kitchen extract system
09	50mm Rockwool (RW5) 100kg/m3 which provides 30 minutes' fire resistance
10	100mm (2x50mm) Rockwool Marine Batt which provides 60 minutes' fire
	resistance



Construction Type	Description
01	Fabricated with similar methods of jointing / stiffening etc. as described in BS EN 1507 and DW144. i.e. J1,2,3 S1,2,3 sizing is related to actual duct sizes (see specific Construction Table)
02	Fabricated from sheet and RSA and fully welded to provide a gas tight construction, sizing is related to actual duct sizes (see specific Construction Table)
03	Fabricated from panel sections with a 50x50x5 RSA flange and 75x50x5 RSA stiffening frames
04	Fabricated with similar methods of jointing / stiffening etc. as described in BS EN 1507 and DW144 but specifically 30x30x5 RSA jointing and stiffening (see specific Construction Table)
05	Fabricated as CT1 with the exception on all duct body thickness to be 1.2mm – specifically for the Middle East region (see specific Construction Table)

Product Codes	CF / BS / 1 / ** / GS / 01 / R	CF / BS / 1 / ** / SS / 01 / R
	CF / BS / 2 / ** / GS / 01 / R	CF / BS / 2 / ** / SS / 01 / R
Description	A Galvanised sheet steel or stainless s	teel ductwork system to provide a fire
	resistant duct as tested to BS 476 part 24	
System uses	General ventilation, kitchen, car park & smoke extraction and pressurisation	
	systems	
Parameters	Duct A & B for up to 120min for stabili	ty, integrity and insulation
Orientation	Horizontal and vertical applications	
Sizes	Up to 3000x3000	
Penetration	See drawing (CF/213, CF/311 & CF/312 -uninsulated) (CF/411 & CF/223-	
	insulated)	
Wall/floor	Concrete / Masonry / steel or partitic	on constructions suitably rated for the
construction	system.	
Pressure rating	Leakage class A, B, C & D as for DW144	4 constructed ductwork (CT2 only A-C)
Insulation (**)	00, 01, 02, 03, 04, 06, 07 & 08	
Construction	CT1 & CT2	
table ref		



Product Codes	CF / BS / 4 / ** / GS / 01 / R	CF / BS / 4 / ** / SS / 01 / R
Description	A Galvanised sheet steel or stainless steel ductwork system to provide a fire	
	resistant duct as tested to BS 476 part 24	
System uses	General ventilation, kitchen, car park & smoke extraction and pressurisation	
	systems	
Parameters	Duct A & B up to 240min for stability, i	ntegrity and 120min for insulation
Orientation	Horizontal and vertical applications	
Sizes	Up to 3000x3000	
Penetration	See drawing (CF/213, CF/311 & CF/312 -uninsulated) (CF/411 & CF/223-	
	insulated)	
Wall/floor	Concrete / Masonry / steel or partitio	on constructions suitably rated for the
construction	system.	
Pressure rating	Leakage class A, B, C & D as for DW144	constructed ductwork (CT4 only A-C)
Insulation (**)	00, 01, 02, 03, 04, 06, 07 & 08	
Construction	CT3 & CT4	
table ref		

Product Codes	CF / BS / 1 / ** / MS / 02 / R	CF / BS / 1 / ** / SS / 02 / R
	CF / BS / 2 / ** / MS / 02 / R	CF / BS / 2 / ** / SS / 02 / R
Description	A Mild steel or stainless steel fully welded ductwork system to provide a fire	
	resistant duct as tested to BS 476 part 24	
System uses	Kitchen extraction systems	
Parameters	Duct A & B for up to 120min for stabili	ty, integrity and insulation
Orientation	Horizontal and vertical applications	
Sizes	Up to 3000x3000	
Penetration	See drawing (CF/213, CF/311 & CF/312 -uninsulated) (CF/411 & CF/223-	
	insulated)	
Wall/floor	Concrete / Masonry / steel or partitic	on constructions suitably rated for the
construction	system.	
Pressure rating	Leakage class A, B, C & D as for DW144	constructed ductwork (CT6 only A-C)
Insulation (**)	00, 06, 07 & 08	
Construction	CT5 & CT6	
table ref		



Product Codes	CF / BS / 4 / ** / MS / 02 / R CF / BS / 4 / ** / SS / 02 / R	
Description	A Mild steel or stainless steel fully welded ductwork system to provide a fire	
	resistant duct as tested to BS 476 part 24	
System uses	Kitchen extraction systems	
Parameters	Duct A & B for up to 240min for stability, integrity and 120min for insulation	
Orientation	Horizontal and vertical applications	
Sizes	Up to 3000x3000	
Penetration	See drawing (CF/213, CF/311 & CF/312 -uninsulated) (CF411 & CF223-	
	insulated)	
Wall/floor	Concrete / Masonry / steel or partition constructions suitably rated for the	
construction	system.	
Pressure rating	Leakage class A, B, C & D as for DW144 constructed ductwork (CT8 only A-C)	
Insulation (**)	00, 06, 07 & 08	
Construction	СТ7 &СТ8	
table ref		

Product Codes	CF / BS / 1 / ** / GS / 01 / C	CF / BS / 1 / ** / SS / 01 / C
	CF / BS / 2 / ** / GS / 01 / C	CF / BS / 2 / ** / SS / 01 / C
	CF / BS / 4 / ** / GS / 01 / C	CF / BS / 4 / ** / SS / 01 / C
Description	A Galvanised sheet steel or stainless steel ductwork system to provide a fire	
	resistant duct as tested to BS 476 part 24	
System uses	General ventilation, kitchen, car park & smoke extraction and pressurisation	
	systems	
Parameters	Duct A & B for up to 240min for stability, integrity and 120min insulation	
	(60min KE)	
Orientation	Horizontal and vertical applications	
Sizes	Up to 1250 Diameter	
Penetration	See drawing (CF/213, CF/311 & CF/312 -uninsulated) (CF411 - insulated)	
Wall/floor	Concrete / Masonry / steel or partition constructions suitably rated for the	
construction	system.	
Pressure rating	Up to leakage class C as for DW144 constructed ductwork	
Insulation (**)	00, 01, 02, 03, 04, 06 & 07	
Construction	СТ9	
table ref		



Product Codes	CF / BS / 1 / 00 / GS / 05 / R	CF / BS / 1 / 00 / SS / 05 / R
	CF / BS / 2 / 00 / GS / 05 / R	CF / BS / 2 / 00 / SS / 05 / R
Description	A Galvanised sheet steel or stainless s	teel ductwork system to provide a fire
	resistant duct as tested to BS 476 part 24	
System uses	General ventilation, kitchen, car park & smoke extraction and pressurisation	
	systems	
Parameters	Duct A & B for up to 120min for stabili	ty and integrity only
Orientation	Horizontal and vertical applications	
Sizes	Up to 3000x3000	
Penetration	See drawing CF/213, CF/311 & CF/312	
Wall/floor	Concrete / Masonry / steel or partition constructions suitably rated for the	
construction	system.	
Pressure rating	Leakage class A, B, C & D as for DW144 constructed ductwork	
Insulation	00	
Construction	CT10 – Middle East region only	
table ref		

Product Codes	CF / BS / 4 / 05 / GS / 01 / R	CF / BS / 4 / 05 / SS / 01 / R
Description	A Galvanised sheet steel or stainless steel ductwork system to provide a fire	
	resistant duct as tested to BS 476 part 24	
System uses	General ventilation, kitchen, car park & smoke extraction and pressurisation	
	systems	
Parameters	Duct A & B for up to 240min for stabili	ty, integrity and insulation
Orientation	Horizontal and vertical applications	
Sizes	Up to 3000x3000	
Penetration	See drawing CF223	
Wall/floor	Concrete / Masonry constructions suitably rated for the system.	
construction		
Pressure rating	Up to leakage class C as for DW144 constructed ductwork	
Insulation	05	
Construction	CT13	
table ref		