



CASWELL FIRESAFE® **Fire Resisting Duct Systems Product Data Sheets**

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 & 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 Performance	Description
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

CASWELL FIRESAFE®

Fire Resisting Duct Systems Product Data Sheets

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, integrity 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 construction	Concrete / Masonry / steel or partition constructions suitably rated for the 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 table ref	CT3 & CT4	

Product Codes	CF / BS / 1 / ** / MS / 02 / R CF / BS / 2 / ** / MS / 02 / R	CF / BS / 1 / ** / SS / 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 stability, 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 construction	Concrete / Masonry / steel or partition constructions suitably rated for the system.	
Pressure rating	Leakage class A, B, C & D as for DW144 constructed ductwork (CT6 only A-C)	
Insulation (**)	00, 06, 07 & 08	
Construction table ref	CT5 & CT6	

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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 construction	Concrete / Masonry / steel or partition constructions suitably rated for the system.	
Pressure rating	Leakage class A, B, C & D as for DW144 constructed ductwork (CT8 only A-C)	
Insulation (**)	00, 06, 07 & 08	
Construction table ref	CT7 & CT8	

Product Codes	CF / BS / 1 / ** / GS / 01 / C CF / BS / 2 / ** / GS / 01 / C CF / BS / 4 / ** / GS / 01 / C	CF / BS / 1 / ** / SS / 01 / C CF / BS / 2 / ** / SS / 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 construction	Concrete / Masonry / steel or partition constructions suitably rated for the system.	
Pressure rating	Up to leakage class C as for DW144 constructed ductwork	
Insulation (**)	00, 01, 02, 03, 04, 06 & 07	
Construction table ref	CT9	

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Product Codes	CF / BS / 1 / 00 / GS / 05 / R CF / BS / 2 / 00 / GS / 05 / R	CF / BS / 1 / 00 / SS / 05 / R CF / BS / 2 / 00 / SS / 05 / 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 120min for stability and integrity only	
Orientation	Horizontal and vertical applications	
Sizes	Up to 3000x3000	
Penetration	See drawing CF/213, CF/311 & CF/312	
Wall/floor construction	Concrete / Masonry / steel or partition constructions suitably rated for the system.	
Pressure rating	Leakage class A, B, C & D as for DW144 constructed ductwork	
Insulation	00	
Construction table ref	CT10 – Middle East region only	

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 stability, integrity and insulation	
Orientation	Horizontal and vertical applications	
Sizes	Up to 3000x3000	
Penetration	See drawing CF223	
Wall/floor construction	Concrete / Masonry constructions suitably rated for the system.	
Pressure rating	Up to leakage class C as for DW144 constructed ductwork	
Insulation	05	
Construction table ref	CT13	