TAWREED

TAWREED TRADING & CONTRACTING · DUCT FACTORY IN QATAR SINCE 2012

TECHNICAL DATA SHEET // GI DUCT

Fire-Rated Duct 120 min – Applus Certified Performance

دكت مقاوم للحريق 120 دقيقة – أداء معتمد من Applus

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02 GI, stainless-steel and mild-steel rectangular ducts

DOCUMENT

3 pages, extracted from:
Technical Submittal - GI Duct, p. 36–37
Revision 01 · October 2026

CONTACT · REQUEST A QUOTE

Phone / WhatsApp: +974 7097 0111 Email: hvac@tawreed.ltd
Factory: Zone 91, Street 3138, Building 66, Birkat Al Awamer, Qatar
Web: tawreed.ltd Hours: Sat–Thu, 9am–5pm

Data supplied for submittal and specification purposes. Values are nominal; confirm project-specific requirements with Tawreed before ordering.

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Technical Annex Ed. 1
20/09/2024

CERTIFIED PERFORMANCE

Ventilation duct:

Performance	Time (minutes)
Stability	120
Integrity	120

Smoke extraction duct:

Performance	Time (minutes)
Stability	120
Integrity	120

Product Application

Product trade name:" FIRE RATED DUCT 120", duct A and duct B scenario.
Material: GI, Stainless and Mild steel.

Installation: Horizontal and vertical.

Complete list of the products certified:

GI rectangular ducts

Longer side (mm)	Thickness (mm)	Standard Straight Length (mm)	Hanger Spacing (m)	Stiffener		Cross Joint	Clamp (mm)	Bearer	Drop Rod (mm)
				Intermediate	Internal	Type / Rating			
0 - 400	1,2	1220	1200	RSA 30 x 30 x 1,2	-	SOF 30x30 x0,8	150	RSA 40x40 x4	10
401-600	1,2	1220	1200	RSA 30 x 30 x 1,2	-	SOF 30x30 x0,8	150	RSA 40X40 x5	10
601-800	1,2	1220	1200	RSA 30 x 30 x 1,2	-	SOF 30x30 x0,8	150	RSA 50X50 x5	10
801-1000	1,2	1220	1200	RSA 30 x 30 x 1,2	-	SOF 30x30 x0,8	150	RSA 60x60 x6	10
1001-1600	1,2	1220	1200	RSA 40 x 40 x 1,2	-	SOF 40x40 x1	150	C-channel 76x38	12
1601-2000	1,2	1220	1200	RSA 50 x 50 x 5	-	SOF 40x40 x1	150	C-channel 102x51	14
2001-3000	1,2	1220	1200	RSA 60 x 60 x 6	-	SOF 40x40 x1	150	C-channel 152x89	16

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Stainless steel rectangular ducts

Longer side (mm)	Thickness (mm)	Standard Straight Length (mm)	Hanger Spacing (m)	Stiffener		Cross Joint	Clamp (mm)	Bearer	Drop Rod (mm)
				Intermediate	Internal	Type / Rating			
0 - 400	1,2	1220	1200	RSA 30 x 30 x 1,2	-	SOF 30x30 x0,8	150	RSA 40x40 x4	10
401-600	1,2	1220	1200	RSA 30 x 30 x 1,2	-	SOF 30x30 x0,8	150	RSA 40X40 x5	10
601-800	1,2	1220	1200	RSA 30 x 30 x 1,2	-	SOF 30x30 x0,8	150	RSA 50X50 x5	10
801-1000	1,2	1220	1200	RSA 30 x 30 x 1,2	-	SOF 30x30 x0,8	150	RSA 60x60 x6	10
1001-1600	1,2	1220	1200	RSA 40 x 40 x 1,2	-	SOF 40x40 x1	150	C-channel 76x38	12
1601-2000	1,2	1220	1200	RSA 50 x 50 x 5	-	SOF 40x40 x1	150	C-channel 102x51	14
2001-3000	1,2	1220	1200	RSA 60 x 60 x 6	-	SOF 40x40 x1	150	C-channel 152x89	16

Mild steel rectangular ducts

Longer side (mm)	Thickness (mm)	Standard Straight Length (mm)	Hanger Spacing (m)	Stiffener		Cross Joint	Clamp (mm)	Bearer	Drop Rod (mm)
				Intermediate	Internal	Type / Rating			
0 - 400	1,5	1220	1200	RSA 30 x 30 x 1,5	-	RSA 30x30 x3	150	RSA 40x40 x4	10
401-600	1,5	1220	1200	RSA 30 x 30 x 1,5	-	RSA 30x30 x3	150	RSA 50x50 x5	10
601-800	1,5	1220	1200	RSA 30 x 30 x 1,5	-	RSA 30x30 x3	150	RSA 60x60 x8	10
801-1000	1,5	1220	1200	RSA 30 x 30 x 1,5	-	RSA 30x30 x3	150	RSA 60x60 x8	10
1001-1600	1,5	1220	1200	RSA 40 x 40 x 1,5	-	RSA 40x40 x4	150	C-channel 76x38	12
1601-2000	1,5	1220	1200	RSA 50 x 50 x 5	-	RSA 40x40 x4	150	C-channel 102x51	14
2001-3000	1,5	1220	1200	RSA 60 x 60 x 6	-	RSA 40x40 x4	150	C-channel 152x89	16

GI and Stainless steel circular and oval ducts

Diameter (mm)	Thickness (mm)	Standard Straight Length (mm)	Hanger Spacing (m)	Stiffener		Cross Joint	Clamp (mm)	Bearer	Drop Rod (mm)
				Intermediate	Internal	Type / Rating			
0 – 100	1,2	1220	1200	RSA 30 x 30 x 1,5	-	SOF 25x14 x0,8	150	Ø100 x 1,5x50 (2 pieces)	10
101-200	1,2	1220	1200	RSA 30 x 30 x 1,5	-	SOF 25x14 x0,8	150	Ø200 x 1,5x50 (2 pieces)	10
200-400	1,2	1220	1200	RSA 30 x 30 x 1,5	-	SOF 25x14 x0,8	150	Ø400 x 2,0x50 (2 pieces)	10
401-630	1,2	1220	1200	RSA 30 x 30 x 1,5	-	SOF 25x21 x1	150	Ø630 x 2,0x50 (2 pieces)	10
630-800	1,2	1220	1200	RSA 30 x 30 x 1,5	-	SOF 35x33 x1,2	150	Ø800 x 3,3x50 (2 pieces)	12
800-1000	1,2	1220	1200	RSA 30 x 30 x 3	-	SOF 35x33 x1,2	150	Ø1000 x 3,3x50 (2 pieces)	14
1001-1250	1,2	1220	1200	RSA 40 x 40 x 4	-	SOF 35x33 x1,2	150	Ø1250 x 3,0x50 (2 pieces)	16