



DAL 358 Submittal



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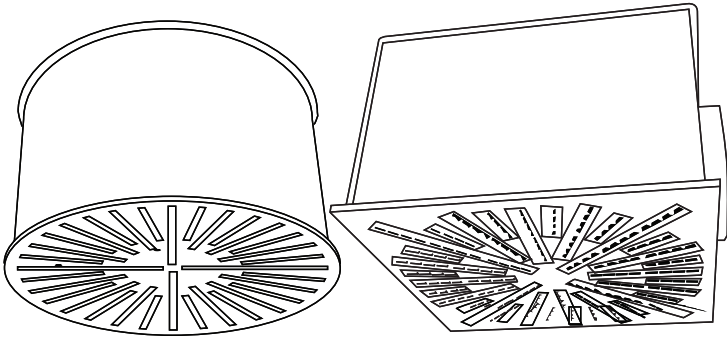
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Date

Project

Engineer

Contractor



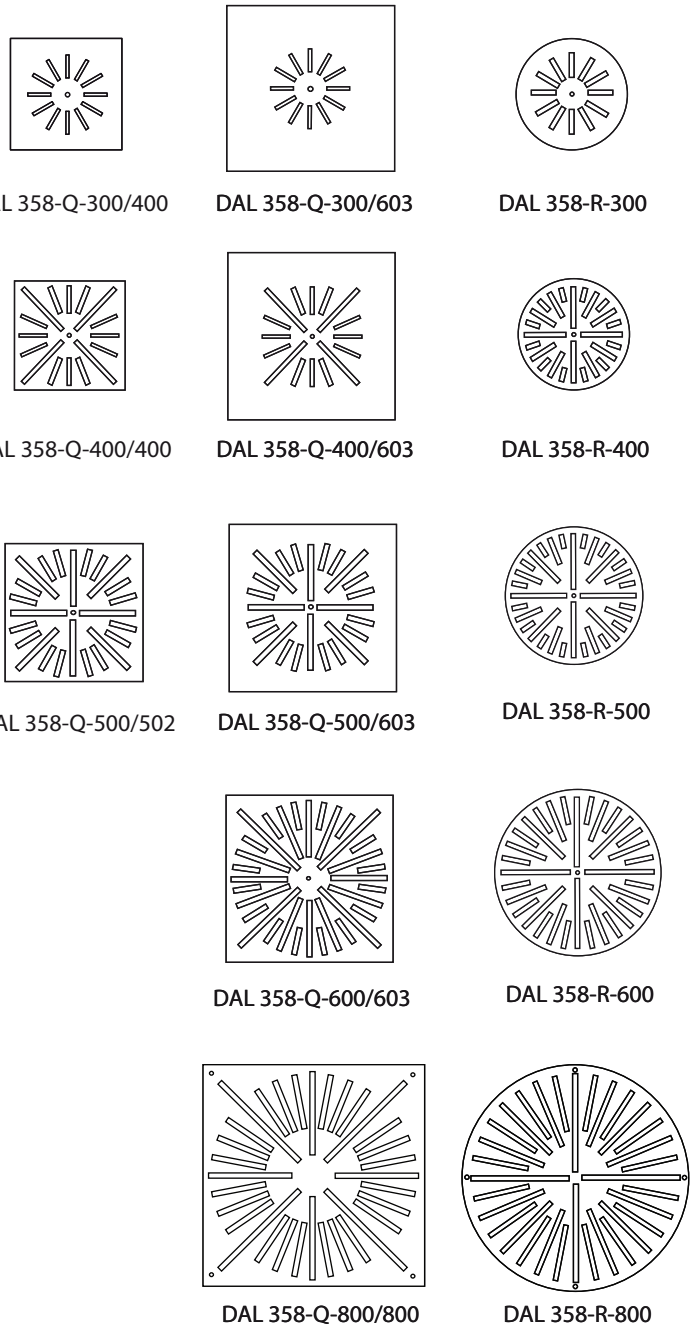
Configuration

The diffuser

- Made of 20 ga. mat finished steel.
- The round or square front plate integrated eccentric adjustable rollers.
- The 100 mm long eccentric rollers shall have an alphanumeric identification, which will allow adjustment of the air flow pattern over 180 degrees.
- Adapted to fit regular North American suspended ceilings or classic gypsum ceilings.
- Configurations allowing a helical air diffusion or in 1, 2 or 3 ways, corner or "L". (see page 2)
- Powder coated with a polyester TGIC-free paint,
- Colour from the RAL colour chart, according the client choice

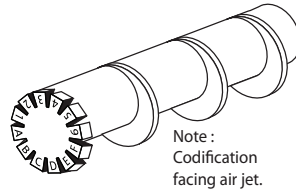
Plenum

- Made and tagged by the diffuser's manufacturer.
- Made from 24-gauge galvanized steel
- Perforated stabilizing (equalizing) plate,
- Four suspension points which adhere to parasismic standards,
- The inlet shall be centered on the side or on the top of the plenum, and its size shall be calibrated to accommodate the airflow rate.
- The joints of the plenum shall be sealed with caulking, which is free of VOC (volatile organic compounds) emissions.
- The diffuser front plate shall be attached to the plenum by a central screw.

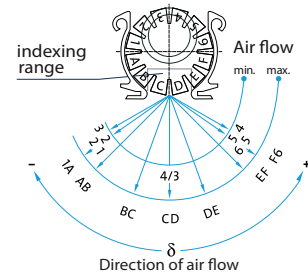


DAL 358 - Air flow and air direction

The 100 mm long eccentric rollers can be rotated 360 degrees. In standard position (21), the eccentric rollers establish, through the profile of the slots, a streamline through which carried along. At the outlet of the roller, a low pressure is created, generating a high rate of induction.

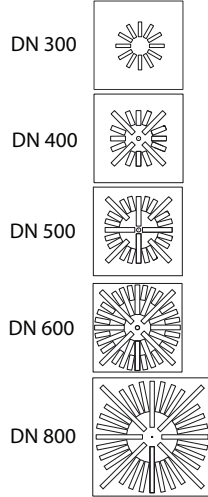
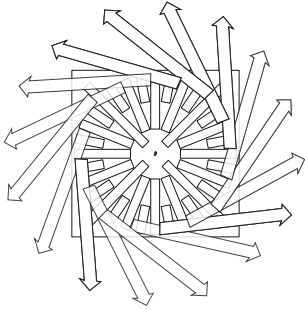


Note:
Codification
facing air jet.



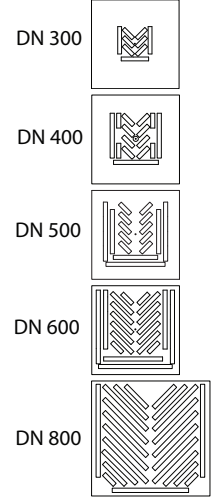
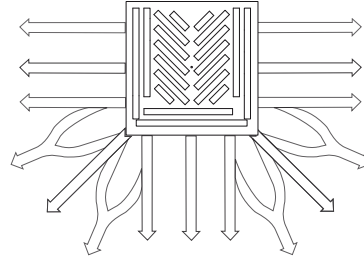
DN 600 360° swirl airflow

ST = Standard swirl airflow (21)
HL = Flow rise (>5 m)
(exterior 21 and center CD)
VF = Vertical airflow (CD)



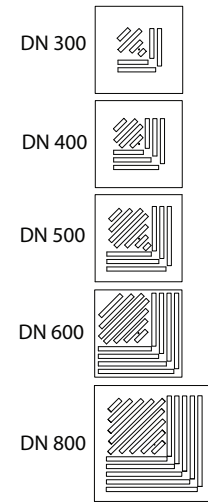
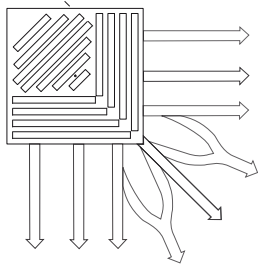
DN 600 3 directions covering 180°

3W = Airflow 180° (wall) (21- 34)



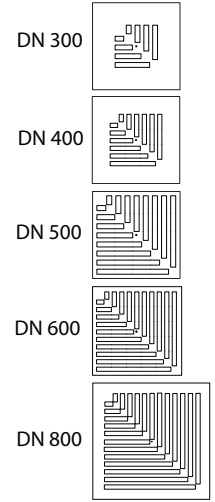
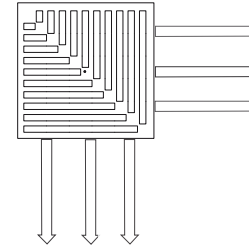
DN 600 2 airflow direction at 90°

2C = Airflow 90° (corner) (21)



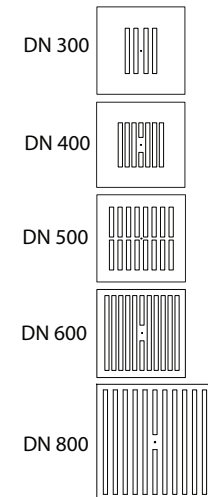
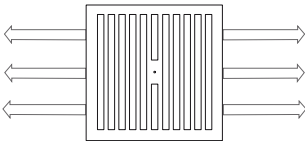
DN 600 2 directions in the corner

2L = Airflow in two directions in an L shape (2 streams) (21)

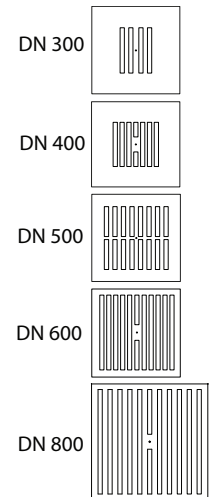
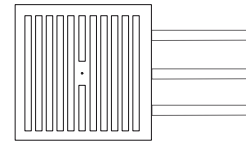


DN 600 2 opposing directions

2W = Airflow on two opposing directions (21- 56)



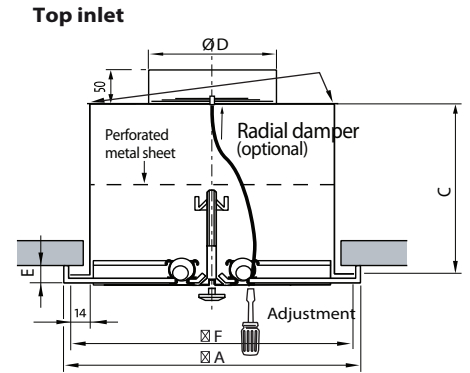
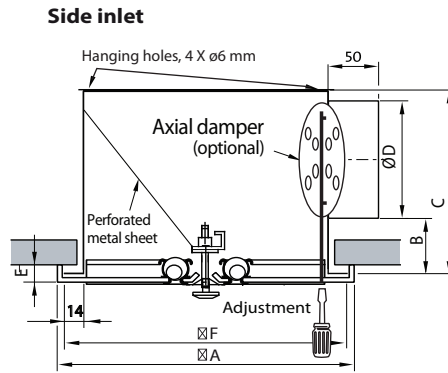
DN 600 1 direction



The technician have to take consideration the correction factor when using balometer in balancing air volume.
These correction factors are indicated in diffuser's installation guide or in DAL 358's Catalog.

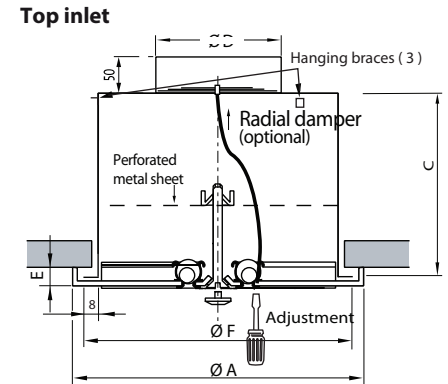
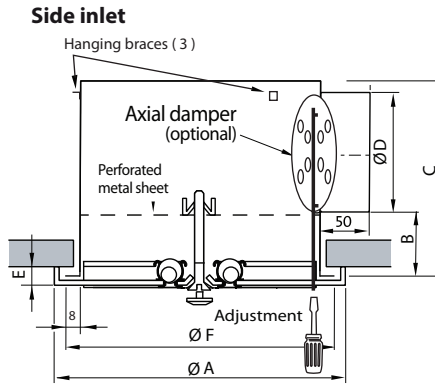
DAL 358 - Dimensions and weight square plenum

DN	300/400	500	600	800
Size A	400	502	603	800
Size B	76	82	68	66
Size C	251	312	347	411
Size ØD	150	200	250	300
Size E	12	12	12	12
Size F	387	488	584	790
Weight [Kg]	4.5/4.7	7.4	11	17.1
A _{eff} [m ²]	0.0080/0.0134	0.0214	0.0347	0.0508



round plenum

DN	300/400	500	600	800
Size ØA	400	500	600	800
Size B	76	82	67	66
Size C	252	312	347	411
Size ØD	150	200	250	300
Size E	8	8	8	8
Size Ø F	392	492	592	792
Weight [Kg]	3.8/4.3	6.5	8.5	14.3
A _{eff} [m ²]	0.0080/0.0134	0.0214	0.0347	0.0508



DAL 358 - Fireproof damper square plenum

DN	300	400	500	600			
Size □A	603	400	603	400	603	502	603
Size C	400	400	400	400	450	450	498
Size ØD	150	150	150	150	200	200	250
Size □F	584	396	584	396	584	488	584
Weight [Kg]	16.7	10.7	16.8	10.9	17.7	14.6	19.2

Note : The balancing damper is not available with the fireproof damper.

Classified ULC (Underwriters laboratories of Canada), the NAD Klima diffusers with fire resistant dampers have a fire-resistant rating of 3 hours.

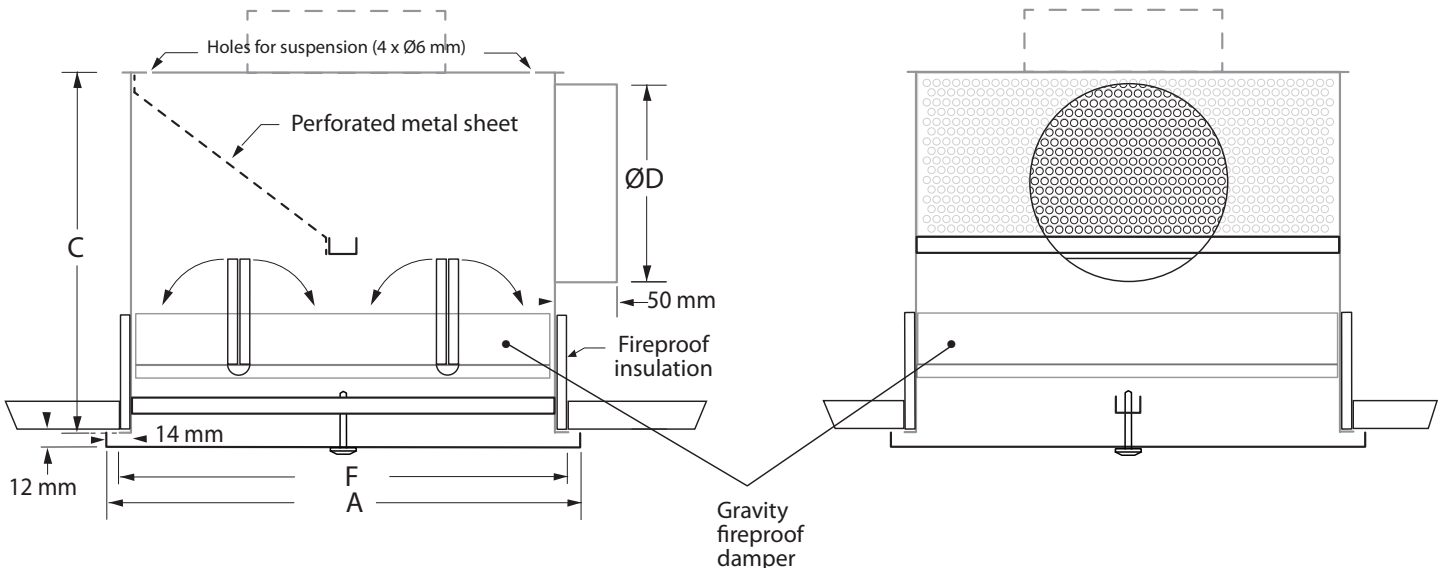
The fire-resistant damper is integrated directly to the plenum. This assembly is designed for installation in either a suspended or gypsum ceiling.



LISTED
Air Terminal Unit
R38924
CAN/ULC - S112.2 et CAN/ULC - S101



CLASSIFIED
CEILING AIR DIFFUSER
FIRE RESISTANCE CLASSIFICATION
ANSI/UL 555C et ANSI/UL 263



DAL358 - Codification

DAL 358										Product	
Q = Square R = Round										Configuration	
300, 400, 500, 600, 800										Nominal dimension	
400, 502, 603, 800										Outer size	
(603 for 24" x 24" T-bar)											
ST = Standard helical airflow (21) HL = Flow rise (>5 m) (exterior 21 and center CD) VF = Vertical airflow (CD) 1W = Airflow on one direction (21) 2W = Airflow in two opposing directions (21 - 65) 2L = Airflow in two directions in an L shape (21) 2C = 90° airflow (corner) (21) 3W = 180° airflow (wall) (21 - 65) XX = Without roller (return)										Air flow	
W = White roller and receptacle (RAL 9003) C = Cream roller and receptacle (RAL 9010) B = Black roller and receptacle X = Without roller										Roller and receptacle color	
9003 = White 9010 = Cream 00SB = Solar Black (Standard black matte) 00SM = Silver Mat (Standard metallic grey) _____ = RAL color (write RAL color number)										Diffuser color	
S = Plenum with side inlet T = Plenum with top inlet X = Without plenum										Plenum	
I = With acoustic insulation A = With closed cell acoustic insulation X = Without insulation										Acoustic insulation	
F = With fireproof insulation and fireproof damper (balancing damper not available) X = Without fireproof insulation and fireproof damper										Fireproof insulation	
D = With axial damper (for side inlet only with standard airflow) R = With radial damper (for top and side inlet) * X = Without damper										Balancing damper	
DAL358	Q	300	603	ST	W	9003	S	X	X	X	Example