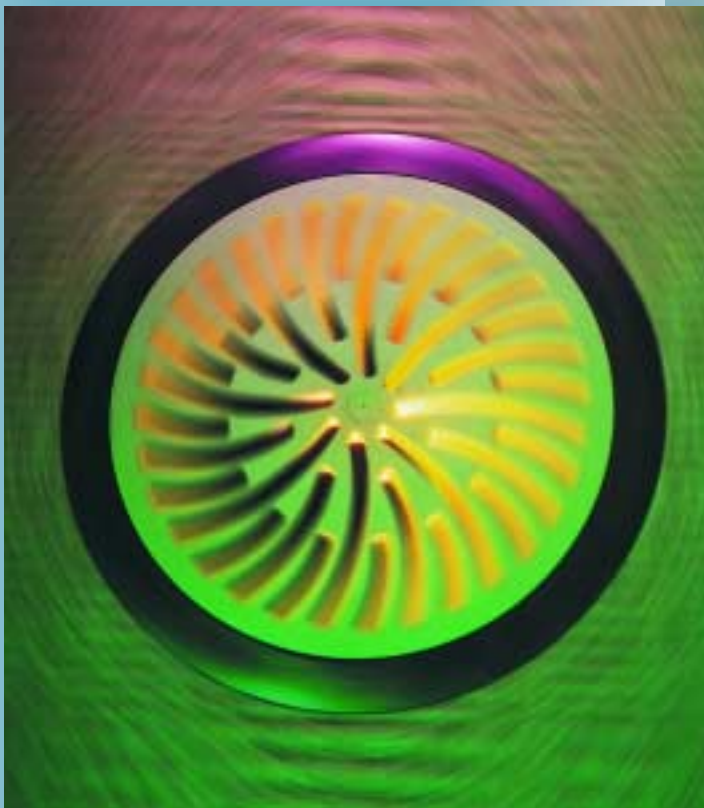


FLOOR SWIRL DIFFUSER MODEL NFD



Low Velocity, High Induction

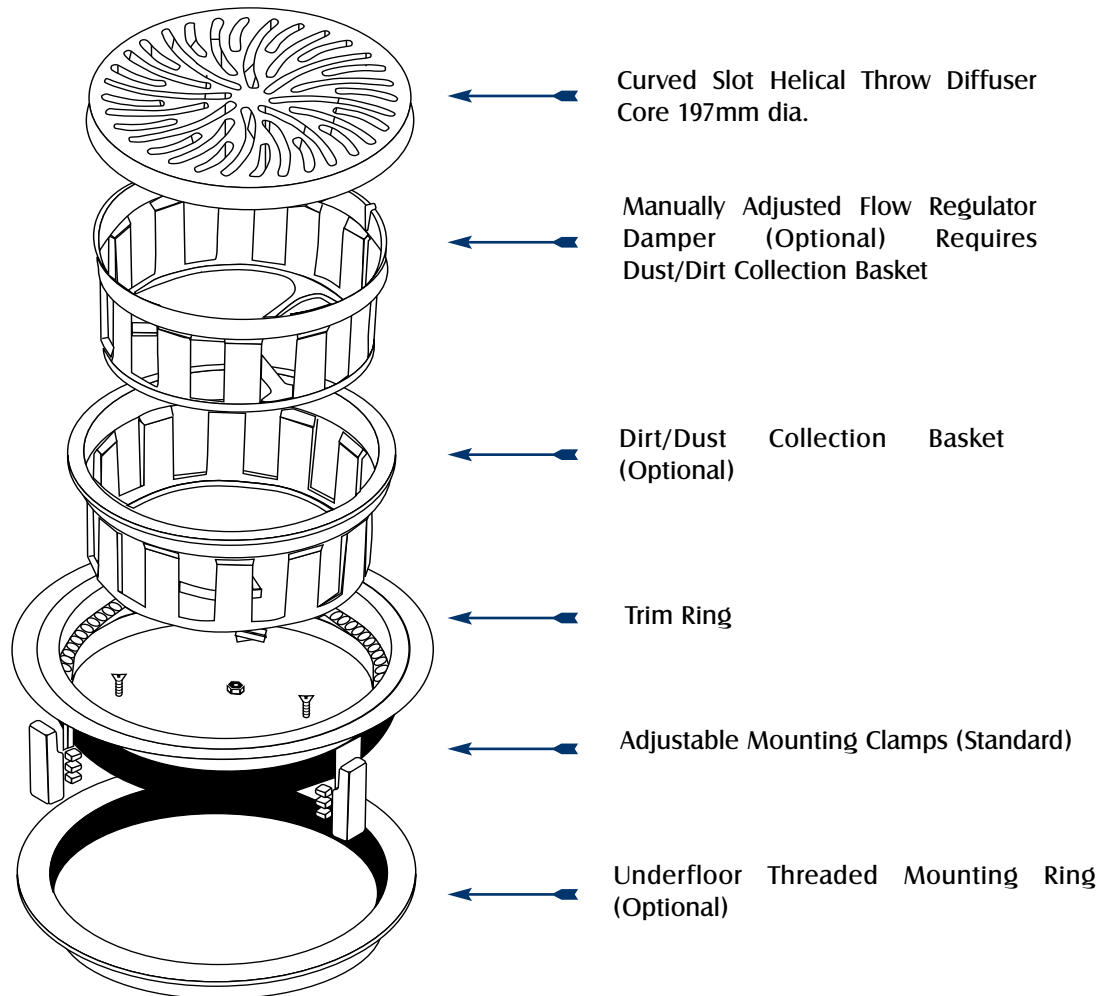
Low Profile Design

Easy to Install and Adjust

Advanced Air 

Description

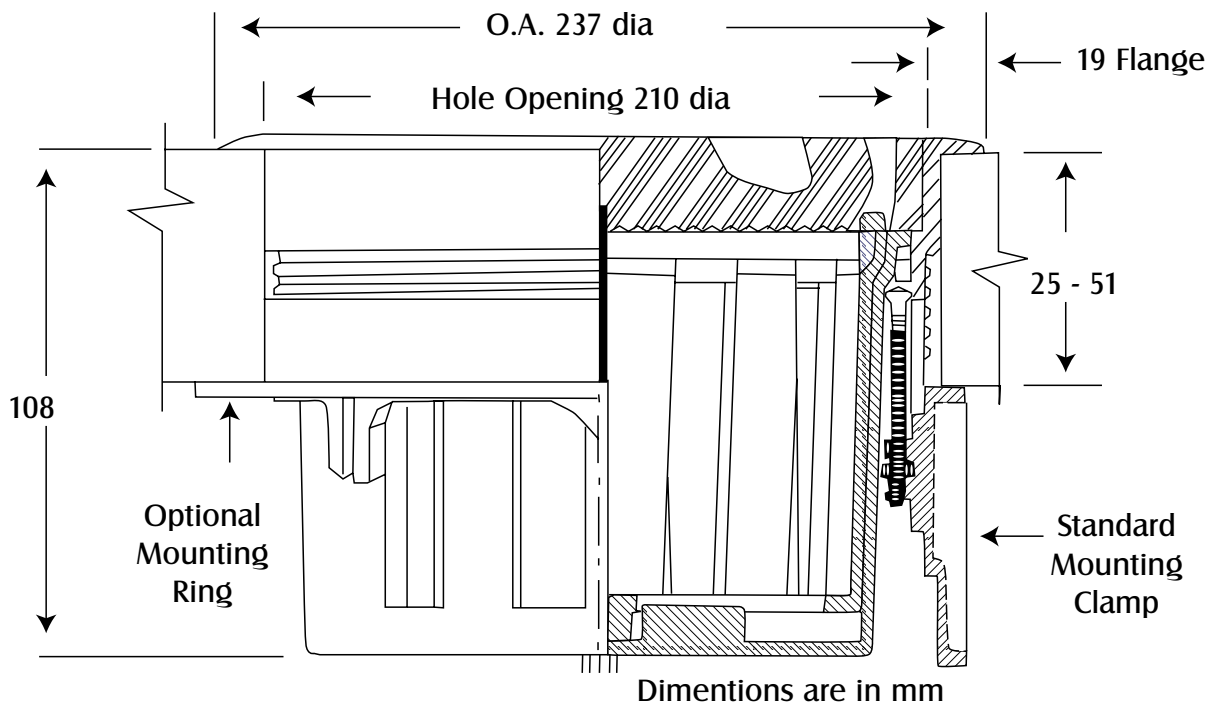
The Nailor NFD diffuser is designed for use in raised access floor air distribution systems, where the floor cavity is used as a pressurised supply air plenum. The NFD core design produces a low velocity helical discharge air pattern. The design achieves high induction rates of room air which optimises circulation and therefore comfort conditions.



Features

- Constructed from high impact polycarbonate plastic complying with UL Standard 94-5V for flammability
- Nominal size 203mm dia. Low profile design.
- Dust/dirt collection basket catches anything that might fall through the diffuser face. Removable for cleaning
- Optional flow regulator damper adjustable **without removing the diffuser core**, features visual open/closed indication and includes built in end stops.
- Low pressure drop core/damper assembly design.
- Architecturally pleasing face design complements contemporary decor. Lies flush with trim ring flange, with or without damper.
- Rugged trim ring design secures carpet and prevents edges fraying.
- Unique adjustable mounting clamp design adapts to any floor panel thickness and provides simple and secure installation. Permits installation **without removal of floor panel or carpet**.
- Optional underfloor mounting ring available
- Standard finish is GR Grey or BK Black core and trim ring. Damper/basket are black.

Cross Section



Selection

- 1) TR Trim Ring (standard)
 None
- 2) Dirt Basket/Damper
 BDL Loose (standard)
 BDA Attached to Core
 BOO Basket Only
 None
- 3) Mounting (Requires Trim Ring)
 MC Mounting Clamps (Standard)
 MR Mounting Ring (Option)
- 4) Finish
 GR Grey
 BK Black
 SP Special Custom Colour

Specify _____

Performance Data

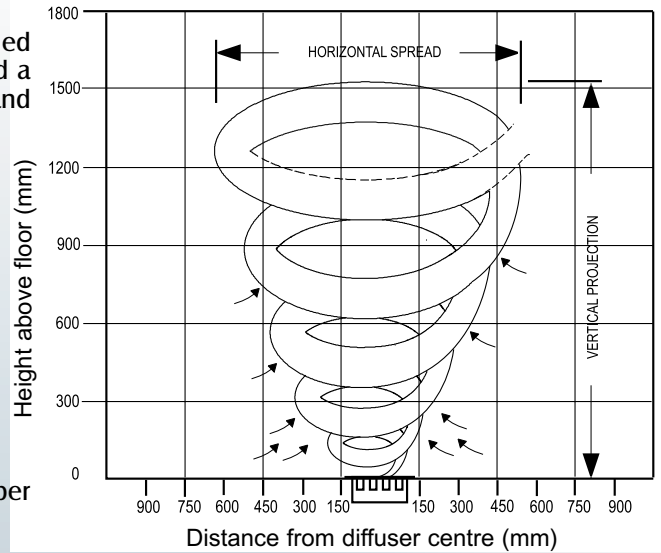
Airflow l/s	30	35	40	45	50	55	60
Plenum Pressure N/m ²	9	12	15	20	25	30	35
Vertical Projection (mm)							
Terminal Velocity m/s							
0.75	336	397	427	488	610	610	641
0.50	427	519	549	641	763	793	824
0.25	856	1068	1129	1342	4525	1647	1708
Horizontal Spread (mm)							
Terminal Velocity m/s							
0.25	640	946	1037	1129	1220	1312	1373
NC	-	-	-	-	15	18	20

Correction Factors for other supply air temperature differentials.

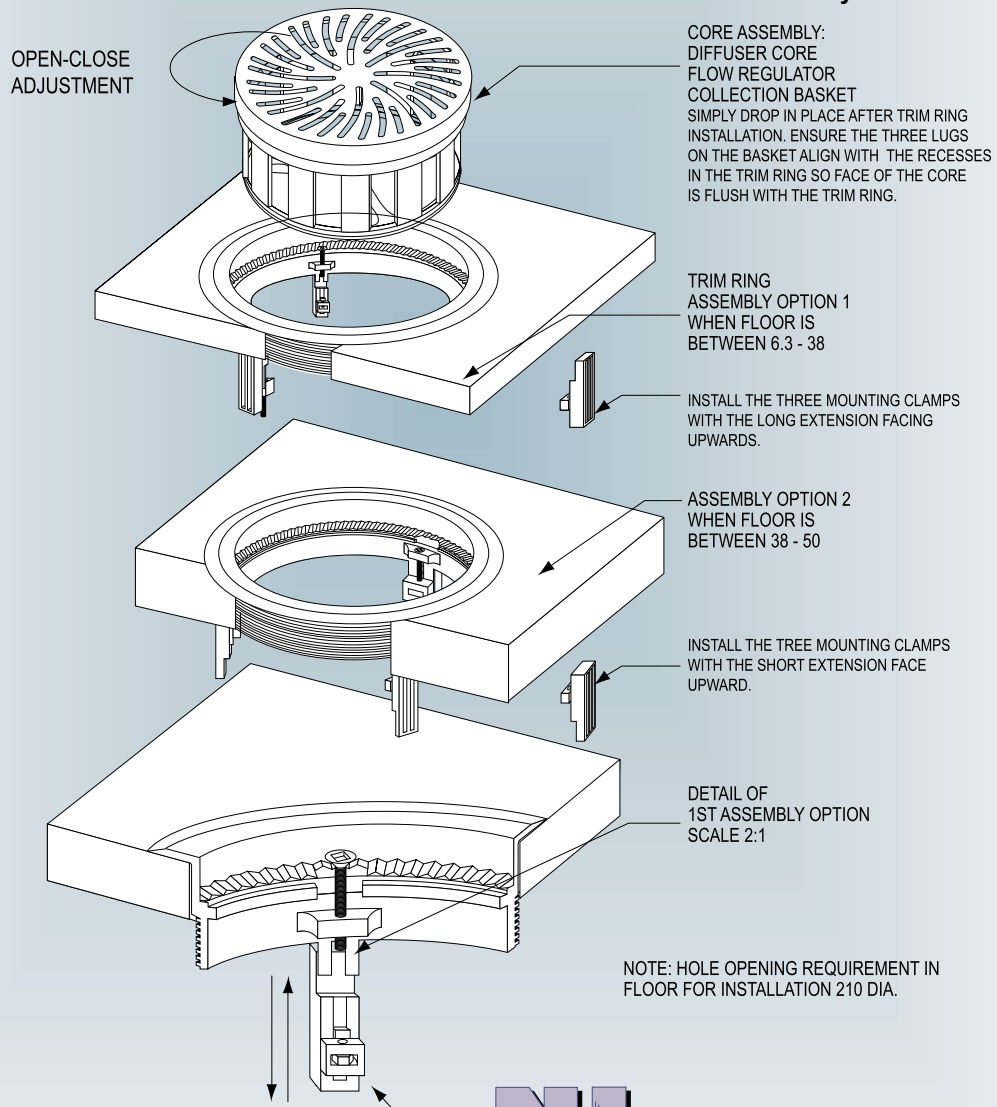
	3.4	4.5	5.6	6.7	7.8	8.9
Projection, m.	x 1.33	x 1.11	x 1.00	x 0.96	x 0.92	x 0.91
Spread, m.	x 0.87	x 0.94	x 1.00	x 1.06	x 1.11	x 1.16

Performance Notes

- 1) Projection and spread data were determined in a room with a 3.5m ceiling height, and a 3°C differential between supply air and averaged occupied room temperature
- 2) Vertical projection (throw) is the maximum height above the floor where terminal velocities of 0.75, 0.50, and 0.25 m/s were observed. Horizontal spread is the total width of the 0.25 m/s isovel.
- 3) Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts. Dash (-) in space denotes and NC value of less than 15.
- 4) Tests conducted with dirt basket/damper installed. Damper fully open. Ak = 0.104
- 5) Data derived form independent test conducted in accordance with ANSI/ASHRAE Standard 70-1991



High Induction "Swirl" Pattern 50l/s supply @ 3°C ΔT. Outline indicates maximum room air velocity of 0.25 m/s



Dimensions are in mm



**Advanced Air
(UK) Limited**

PO Box 153, Burrell Way, Thetford, Norfolk, IP24 3WB, England.
 Tel +44 (0)1842 753624 Fax +44 (0)1842 762032 E-mail sales@advancedair.co.uk

FLOOR ACCESS OUTLET MODEL NFA

FOR ELECTRICAL AND COMMUNICATION CABLE ROUTING IN RAISED FLOOR
AIR DISTRIBUTION SYSTEMS

DESCRIPTION:

The Nailor NFA Floor Access Outlet is for use in raised access floor air distribution systems. It is designed to complement the model NFD Floor 'Swirl' Diffuser.

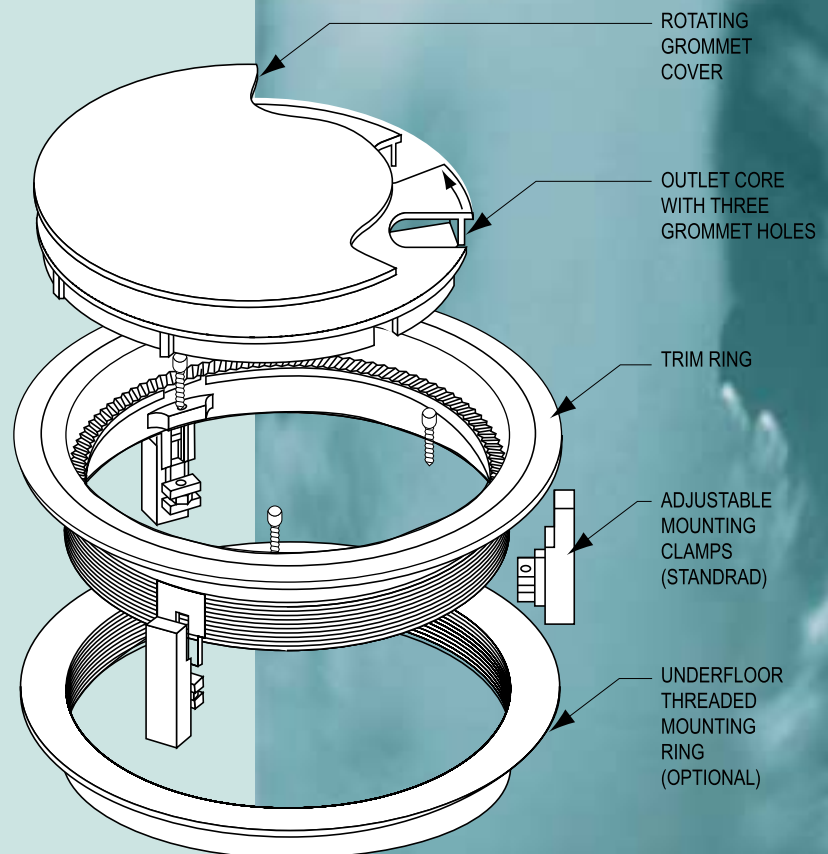
The NFA is an architecturally pleasing and functional means for providing through the floor routing of electrical, telephone and data communication cables.

FEATURES:

- Constructed of high impact polycarbonate plastic complying with UL Standard 94-5V for flammability.
- Nominal size 203 dia.
- Grommet holes will accept one or two cables or conduit up to 32 dia. and a third reduced size grommet hole for telephone and/or computer cables.
- Rotating cover plate can be positioned for 1,2,3 or no cable openings and can be secured in place.
- Architecturally pleasing face design compliments contemporary decor.
- Rugged trim ring design secures carpet and prevents edges fraying.
- Unique adjustable mounting clamp design adapts to any floor panel thickness and provides simple and secure installation from above without need to remove floor panel or carpet.
- Optional underfloor mounting ring available.

SELECTION:

1. Mounting:
 - MC Mounting Clamps (standard)
 - MR Mounting Ring(option)
2. Finish:
 - GR Grey
 - BK Black
 - SP Special custom color by architectSpecify _____ .



FLOOR HOLE OPENING = 210 dia.

ALL MEASUREMENTS ARE IN mm

Advanced Air 

FLOOR ACCESS OUTLET INSTALLATION INSTRUCTIONS
FASTENING: ADJUSTABLE MOUNTING CLAMP 203 NOM. DIA. MODEL: NFA

**OPEN-CLOSE
ADJUSTMENT**

**SERVICE OUTLET:
TOP LID**

SERVICE OUTLET LID

SIMPLY DROP IN PLACE AFTER TRIM RING
INSTALLATION. ENSURE THE THREE LUGS
ON THE SERVICE OUTLET LID ENGAGE INTO
THE TRIM RING LOCATING GROOVES AND
ROTATE OPPOSITE THE DIRECTION
SHOWN BY THE MARK ARROW TO THE
DESIRED POSITION.

**TRIM RING
ASSEMBLY OPTION 1
WHEN FLOOR IS
BETWEEN 6.3 - 38**

INSTALL THE THREE MOUNTING CLAMPS
WITH THE LONG EXTENSION FACING
UPWARDS.

**ASSEMBLY OPTION 2
WHEN FLOOR IS
BETWEEN 38 - 50**

INSTALL THE THREE MOUNTING CLAMPS
WITH THE SHORT EXTENSION FACE
UPWARD.

**DETAIL OF
1ST ASSEMBLY OPTION
SCALE 2:1**

**NOTE: HOLE OPENING REQUIREMENT IN
FLOOR FOR INSTALLATION 210 DIA.**

ALL MEASUREMENTS ARE IN mm



Advanced Air
(UK) Limited

PO Box 153, Burrell Way, Thetford, Norfolk, IP24 3WB, England.
Tel +44 (0)1842 753624 Fax +44 (0)1842 762032 E-mail sales@advancedair.co.uk

The information contained in this publication is correct at the time of printing. Continuous product development means that from time to time product specifications and other information will change. The company therefore reserves the right to modify or withdraw any of the products described without prior notice