21, 22 SUPPLY GRILLES & REGISTERS

D = DUCT SIZE

MODEL 22

3/4" (19)

D = 1-1/2" (21)

OVERALL = D + 1-1/2" (43)

MODEL 22D

1-1/4" (32)

CORE STYLES:

- 21 SINGLE DEFLECTION

- 22 DOUBLE DEFLECTION

BORDERS:

- C CURVED FACE

- F FLAT FACE

- SF = STEEL FRAME

NOTES:

- STANDARD CONSTRUCTION WITH A MULLION: A MULLION IS PROVIDED WHEN NOMINAL SIZE GRILLE DIMENSIONS EXCEED 20" (508).
- LOUVER BLADES – INDIVIDUALLY ADJUSTABLE.
- TYPE A FASTENING – COUNTERSUNK SCREW HOLES FOR NO.8 S.M.S. PER FACTORY STANDARD. (SCREWS SUPPLIED)
- TYPE H FASTENING – FOR ED APPLICATION PILOT HOLE FOR PAN HEAD SMS SCREW FACTORY STANDARD (SCREWS SUPPLIED).
- AVAILABLE SIZE:
  MINIMUM = 6" X 4" (152x102)
  MAXIMUM = 36" X 96" (914x2438)
  MAXIMUM = 48 X 48 (1219x1219) WITH SF FRAME
- OVERSIZED UNITS AVAILABLE C/W DUCT MOUNTING CHANNEL.
- BLADE ORIENTATION – FRONT SET
  - L = PARALLEL TO LONG DIMENSION
  - S = PARALLEL TO SHORT DIMENSION.

FINISH:

- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

MATERIAL:

- ALUMINUM CONSTRUCTION

PROJECT:

21, 22 ALUMINUM SUPPLY GRILLES & REGISTERS

ENGINEER:  
CUSTOMER:  

SUBMITTAL DATE:  2015/10/29  
SPEC. SYMBOL:  21, 22ALU

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21, 22 SERIES MOUNTING OPTIONS AND BORDERS

**BORDERS**

- **N - NARROW MARGIN**
  - DUCT + 1\(\frac{1}{8}\)" (30)
  - DUCT SIZE

- **ED EXPOSED DUCT**
  - DUCT SIZE + \(\frac{3}{8}\)" (6)
  - H = 1\(\frac{1}{4}\)" (32) – STYLE 21
  - H = 2" (51) – STYLE 22

ED APPLICATION IS SUPPLIED COMPLETE WITH BORDER AND DUCT MOUNTING FRAME

- AVAILABLE WITH TYPE H OR TYPE C FASTENING

**FASTENING**

- **A - COUNTER SUNK SCREW**
  - C BORDER ILLUSTRATED

- **C - CONCEALED BRACKET**
  - C BORDER ILLUSTRATED

- H - STRAIGHT SCREW HOLES (FOR ED FRAME ONLY)

**MOUNTING FRAMES**

- **D**
  - \(\frac{3}{8}\)" (10)
  - LISTED SIZE + 2\(\frac{1}{8}\)" (62)
  - \(\frac{1}{2}\)" (9)

- 1 \(\frac{1}{2}\)" (42)
  - LISTED SIZE

USE WITH F BORDER ONLY

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
31,32 SUPPLY GRILLES & REGISTERS

D = DUCT SIZE

OVERALL = D + 13/8" (35)

MODEL 32

MODEL 32D

CORE STYLES:

☐ 31 SINGLE DEFLECTION

☐ 32 DOUBLE DEFLECTION

BORDERS:

☐ C CURVED FACE

H = 19/4" (33) - STYLE 31
H = 113/8" (46) - STYLE 32

☐ F FLAT FACE

H = 11/4" (32) - STYLE 31
H = 2" (51) - STYLE 32

☐ SF - STEEL FRAME

H = 19/8" (33) STYLE 31
H = 21/8" (52) STYLE 32

NOTES:

• STANDARD CONSTRUCTION WITH A MULLION: A MULLION IS PROVIDED WHEN NOMINAL SIZE GRILLE DIMENSIONS EXCEED 20" (508).

• LOUVER BLADES - INDIVIDUALLY Adjustable.

• TYPE A FASTENING - COUNTERSUNK SCREW HOLES FOR NO.8 S.M.S. PER FACTORY STANDARD. (SCREWS SUPPLIED)

• TYPE H FASTENING—FOR ED APPLICATION PILOT HOLE FOR PAN HEAD S.M.S. SCREW FACTORY STANDARD (SCREWS SUPPLIED).

• AVAILABLE SIZES:
  MINIMUM - 6" X 4" (152x102)
  MAXIMUM - 36" X 96" (914x2438)
  MAXIMUM - 48" X 48" (1219x1219) WITH SF FRAME

• OVERSIZED UNITS AVAILABLE c/w DUCT MOUNTING CHANNEL.

• BLADE ORIENTATION - FRONT SET
  - L = PARALLEL TO LONG DIMENSION.
  - S = PARALLEL TO SHORT DIMENSION.

FINISH:

☐ B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

MATERIAL:

• ALUMINUM CONSTRUCTION

OPTIONS:

• FOR OPTIONAL MOUNTING OR BORDERS
  REFER TO SHEET 2

☐ C/W COATED STEEL OPPOSED BLADE DAMPER
  (SPECIFY 31D OR 32D)

☐ C/W ALUMINUM OPPOSED BLADE DAMPER
  (SPECIFY 21DAL OR 22DAL)

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

31, 32
ALUMINUM SUPPLY GRILLES & REGISTERS

ENGINEER:  
CUSTOMER:  222001

SUBMITTAL DATE: SPEC. SYMBOL: 2015/10/29
31,32 SERIES MOUNTING OPTIONS AND BORDERS

BORDERS

☐ **N - NARROW MARGIN**

☐ **ED EXPOSED DUCT**

FASTENING

☐ **A - COUNTER SUNK SCREW**

☐ **C - CONCEALED BRACKET**

☐ **H - STRAIGHT SCREW HOLES (FOR ED FRAME ONLY)**

MOUNTING FRAMES

☐ **D**

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

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60,70 SERIES RETURN AIR GRILLES & REGISTERS

MODEL 60

D = DUCT SIZE

MODEL 60D

\[ D = \frac{1}{8}'' (21) \] \[ \frac{1}{8}'' (35) \]

OVERALL = D + 1 \( \frac{1}{16}'' \) (43)

-CORE STYLES-

- 60
- 70

\[ \frac{1}{2}'' (13) \]

-FILTERS-

- B12 WHITE
  - OPTIONAL FINISHES AVAILABLE

-OPTIONS-

- FOR OPTIONAL MOUNTING OR BORDERS
  - REFER TO SHEET 2.
- C/W COATED STEEL OPPOSED BLADE DAMPER
  - SPECIFY 60D OR 70D.
- C/W ALUMINUM OPPOSED BLADE DAMPER
  - MILL FINISH (SPECIFY 60DAL OR 70DAL).

-MATERIAL-

- ALUMINUM CONSTRUCTION

-NOTES-

- TYPE A FASTENING—COUNTERSUNK
  - SCREW HOLES FOR NO.8 S.M.S. PER FACTORY STANDARD (SCREWS SUPPLIED).

- TYPE H FASTENING—FOR EX APPLICATION
  - PILOT HOLE FOR PAN HEAD SMS. SCREW FACTORY STANDARD (SCREW SUPPLIED)

- AVAILABLE SIZES:
  - MIN. 6"x4" (152x102)
  - MAX. 36"x96" (914x2438)
  - MAX. 48"x48" (1219x1219) WITH SF FRAME

- OVERSIZED UNITS AVAILABLE c/w DUCT MOUNTING CHANNEL.

- BLADE ORIENTATION:
  - L = PARALLEL TO LONG DIMENSION.
  - S = PARALLEL TO SHORT DIMENSION.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2015/05/22

SPEC. SYMBOL: 203509

RETURN AIR GRILLES

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60,70 SERIES MOUNTING OPTIONS AND BORDERS

BORDERS

☐ N - NARROW MARGIN

☐ ED EXPOSED DUCT

☐ TB LAYIN T-BAR

ED APPLICATION IS SUPPLIED COMPLETE WITH BORDER AND DUCT MOUNTING FRAME
* AVAILABLE WITH TYPE H OR TYPE C FASTENING

FASTENING

☐ A - COUNTER SUNK SCREW

☐ C - CONCEALED BRACKET

C BORDER ILLUSTRATED

☐ H-Straight Screw Holes (for ED Frame Only)

NOT AVAILABLE WITH MODEL 70 RETURN GRILLE

MOUNTING FRAMES

☐ D

LISTED SIZE + 1 1/4" (32)

L1/2" (9)

LISTED SIZE

L1/4" (5)

USE WITH F BORDER ONLY

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ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:  
CUSTOMER:  
SUBMITTAL DATE: Spec. Symbol:  

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PANEL MOUNTED 60 & 70 SERIES RETURN AIR GRILLES

CORE STYLES:

- 60
- 70

MATERIAL:
- BLADES: ALUMINUM CONSTRUCTION
- FRAME: STEEL CONSTRUCTION
- PANEL: STEEL CONSTRUCTION (3P, 916P & 17P)
  ALUMINUM CONSTRUCTION (3PA, 916PA & 17PA)

FINISH:
- FINISH OF PANEL TO MATCH GRILLE FINISH
- 312 WHITE
  (OPTIONAL FINISHES AVAILABLE)

NOTES:
- MAXIMUM NOMINAL GRILLE SIZE = MODULE SIZE = 4" (102)
- MODULE SIZE AND NOM. GRILLE SIZE MUST BE SPECIFIED
- NOMINAL MODULE SIZES:
  12" x 12" = 300mm x 300mm
  24" x 12" = 600mm x 300mm
  24" x 24" = 600mm x 600mm
  48" x 24" = 1200mm x 600mm
- FACTORY TOLERANCE ± 1/32" (± 1)

OPTION:
- 600AL OR 700AL c/w ALUMINUM OPPOSED BLADE DAMPER MILL FINISH
- 600 OR 700 c/w COATED STEEL OPPOSED BLADE DAMPER

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERSIONS. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: OCT 2012

SPEC. SYMBOL: 60, 70

REV: F

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60FH, 70FH, 80FH ALUMINUM FACE FILTER RETURN

- OPENING = D + 1/4" (6)
- LISTED SIZE = D
- FILTER SIZE = D - 3/4" (6)

1"(25) FILTER MEDIA BY OTHERS

- MIN SIZE = 8" X 4" (203X102)
- MAX SIZE = 60FH, 70FH - 48" X 36" (1219X914)
- 80FH - 48" X 24" (1219X610)

OPENING TO BE NOTCHED AT FASTENER LOCATIONS BY OTHERS

OVERALL = D + 2 7/16" (62)

- OPENING = MODULE SIZE - 3/4" (95)
- MODULE SIZE = 4"(102)
- FILTER SIZE = MODULE = 4 3/4" (108)

1"(25) FILTER MEDIA BY OTHERS

AVAILABLE MODULE SIZES:
- 12" X 12" (305 X 305)
- 24" X 12" (610 X 305)
- 24" X 24" (610 X 610)
- 48" X 24" (1219 X 610)

HINGE ORIENTATION
- 80FH - HINGE IS PARALLEL TO LONG DIMENSION (HL)
- 60FH AND 70FH - BLADE DEFLECTION IS SHOWN BY ARROW

□ 80FH/70FH TYPE L □ 60FH/70FH TYPE S

HINGE ORIENTATION

NOTES:
- ACCEPTS STANDARD 1" (25) FILTER MEDIA
- 1/4 TURN QUICK-RELEASE FASTENERS
- CONTINUOUS ALUMINUM HINGE SUPPLIED ON UNITS UP TO 36" X 24" (914X610) DUCT SIZE.
- SIZES LARGER THAN 36" X 24" (914X610) DUCT SIZE WILL BE SUPPLIED WITH QUICK-RELEASE FASTENERS ON BOTH SIDES.
- FILTER MEDIA SUPPLIED BY OTHERS

CORE STYLES:

□ 60FH □ 70FH □ 80FH

FINISH:
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

MATERIAL:
- ALUMINUM CONSTRUCTION

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2018/03/20

SPEC. SYMBOL: 222030

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