**500 Supply Grilles & Registers**

**Material:**
- Steel construction

**Finish:**
- B 12 White (optional finishes available)

**Option:**
- C/W Coated Steel opposed blade damper (Specify 510D or 520D)
- IS - Insect screen, 1/16 mesh (not recommended with optional opposed blade damper)

**Note:**
- Standard construction with a mullion: A mullion is provided when nominal size grille dimensions exceed 24" (610) for uneven nominal size grille dimensions eg. 45x6, the mullion is positioned ½" (12) from the centre of the grille.
- Individually adjustable blades
- Type A fastening - Countersunk screwholes for No.8 S.M.S. per factory standard (screws supplied)
- Available sizes:
  - Min. - 6" x 4" (152 x 102)
  - Max. - 48" x 48" (1219 x 1219)
  (one piece construction)
- Oversize units available C/W narrow flange or duct channel
- Blade orientation - Front set
  - L = parallel to long dimension
  - S = parallel to short dimension

**Core Styles:**
- 510/L
- 510/S

**520/L**

**520/S**

**Fastening:**
- C- Concealed bracket

**Mounting Frames:**
- D

**Borders:**
- F Flat
  - B = 1 ¼" (32)
  - H = 1 ½" (38)
- N Narrow
  - B = 1" (25)
  - H = 1 ½" (38)

**Core Styles:**
- 510/L
- 520/L
- 510/S
- 520/S

**Project:**

**Engineer:**

**Customer:**

**Submittal Date:**

**Spec. Symbol:**

2012/03/28

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500 SERIES PANEL MOUNTED SUPPLY AIR GRILLES

CEILING MODULE = CM
NOM. DUCT SIZE

OPTIONAL OPPOSED BLADE DAMPER

MODEL 510 MODEL 510D

PANEL OPENING = NOM. SIZE = 5/8" (16)
PANEL OVERALL

MATERIAL:
- GRILLE: STEEL CONSTRUCTION
- PANEL: STEEL CONSTRUCTION

FINISH:
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

OPTION:
- C/W COATED STEEL OPPOSED BLADE DAMPER
  (SPECIFY 510D OR 520D)

NOTES:
- MODULE SIZE AND NOM. GRILLE SIZE MUST BE SPECIFIED

<table>
<thead>
<tr>
<th>NOMINAL MODULE SIZES</th>
<th>MAXIMUM GRILLE SIZES</th>
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<tbody>
<tr>
<td>12&quot; x 12&quot; - 300mm x 300mm</td>
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<tr>
<td>48&quot; x 24&quot; - 1200mm x 600mm</td>
<td>44&quot; x 20&quot;</td>
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</table>

- FACTORY TOLERANCE ± 3/32 " (1)

CORE STYLES:
- 510/L
- 510/S
- 520/L
- 520/S

- 3/4" (19)
- 3/4" (19)

DIMENSIONING SCHEDULE

<table>
<thead>
<tr>
<th>H</th>
<th>510</th>
<th>2 3/32&quot; (33)</th>
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<tr>
<td>520</td>
<td>1 9/32&quot; (33)</td>
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1" (25)

PANEL OVERALL = CM - 1/2" (6)

3/8" (14)

PANEL OVERALL = CM - 3/8" (3)

3/8" (8)

PANEL OVERALL = CM - 3/8" (16)

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:

2012/03/28 219693

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510Z RETURN AIR GRILLE ZERO° DEFLECTION

OVERALL = D + 1.750 (44)
OPENING = D - .750 (19)

D = NOMINAL DUCT

NOTES:
• STANDARD BLADE MULLION NOT TO EXCEED 24(609) 0/C. MAX.
• TYPE A COUNTERSUNK SCREW MOUNTING WITH #8-S.M.S. - PER FACTORY STANDARD
• FOR ALTERNATE FASTENING & MOUNTING FRAME OPTIONS - REFER TO GENERAL SUPPLY GRILLE SUBMITAL
• BLADES FIXED AT 0° DEFLECTION.
• 510Z/F/L TYPE SHOWN ABOVE
• MINIMUM = 6 x 4 (152 x 102)
• MAXIMUM = 36 x 36 (914 x 914)
• FACTORY TOLERANCE ± 1/32 (1)

OPTIONS:
□ 510Z/F/L = BLADES PARALLEL TO LONG DIMENSION
□ 510Z/F/S = BLADES PARALLEL TO SHORT DIMENSION
□ IS = INSECT SCREEN, 18/16 MESH

MATERIAL:
• STEEL CONSTRUCTION

FINISH:
□ B12 WHITE
(Optional finishes available)

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SEP 2012

SPEC. SYMBOL: 510Z

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REV E
510ZD RETURN AIR REGISTER

OVERALL = D + 1 3/4"(44)
OPENING = D - 3/4"(19)

VCS3 OPPOSED BLADE DAMPER ATTACHED

NOTES:
- STANDARD BLADE MULLION NOT TO EXCEED 24"(610) O/C MAX.
- TYPE A COUNTERSUNK SCREW MOUNTING WITH #8 S.M.S. - PER FACTORY STANDARD
- FOR ALTERNATE FASTENING & MOUNTING FRAME OPTIONS - REFER TO GENERAL SUPPLY GRILLE SUBMITTAL
- 510ZD/F/L TYPE SHOWN ABOVE
- MINIMUM - 6" x 4" (152 x 102)
- MAXIMUM - 36" x 36" (914 x 914)
- FACTORY TOLERANCE ± 1/32 (1)

MATERIAL:
- GRILLE - STEEL CONSTRUCTION
- VCS3 - COATED STEEL OPPOSED BLADE DAMPER

FINISH:
- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

OPTIONS:
- 510ZD/F/L - BLADES PARALLEL TO LONG DIMENSION
- 510ZD/F/S - BLADES PARALLEL TO SHORT DIMENSION

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

PROJECT: [Blank]

ENGINEER: [Blank]

CUSTOMER: [Blank]

SUBMITTAL DATE: SEPT. 2012

SPEC. SYMBOL: 510ZD

227347

REV E
500 RETURN GRILLES & REGISTERS

D = NOMINAL DUCT

MODEL 530

MODEL 5300

OPTIONAL
OPPOSED
BLADE DAMPER

A = D - 3/4" (19)

OVERALL = A + 2B

MATERIAL:
• STEEL CONSTRUCTION

FINISH:
□ 812 WHITE
(OPTIONAL FINISHES AVAILABLE)

OPTION:
□ C/W COATED STEEL OPPOSED
BLADE DAMPER
(SPECIFY 5300 OR 5350)
□ IS = INSECT SCREEN, 18/16 MESH
(NOT AVAILABLE WITH OPTIONAL
OPPOSED BLADE DAMPER)

NOTE:
• TYPE A FASTENING - COUNTERSUNK
SCREW HOLES FOR NO.8 S.M.S. PER
FACTORY STANDARD (SCREWS SUPPLIED)
• TYPE C FASTENING - CONCEALED
FASTENING (N/A WITH 535)
• AVAILABLE SIZES:
MIN. = 6" x 4" (152 x 102)
MAX. = 48" x 48" (1219 x 1219)
(ONE PIECE CONSTRUCTION)
• OVERSIZE UNITS AVAILABLE C/W
DUCT MOUNTING CHANNEL

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

CORE STYLES:

□ 530

□ 535

3/4" (19)

1/2" (13)

TLRD OPTION (ORDERED AS SPECIAL)
(NOM. DUCT SIZE 22" x 22" ONLY)

530/535 RETURN GRILLE
(F FRAME T-BAR LAY-IN ONLY)

21 3/4" (552)

7 3/4" (184)

MAX.

1 3/4" (40)

OVERALL = 23 3/4" (603)

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

PROJECT:

ENGINEER: [Signature]

CUSTOMER: 219695

SUBMITTAL DATE: 2014/05/23

SPEC. SYMBOL: 530/535

STEEL RETURN
GRILLES & REGISTERS

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## 500 RETURN GRILLES & REGISTERS MOUNTING OPTION AND BORDERS

### Borders:

- **F Flat**
  - $B = 1\frac{3}{4}(32)$
  - $\frac{3}{4}(6)$
  - $1\frac{3}{4}(32)$

- **N Narrow**
  - $B = 1\frac{1}{4}(25)$
  - $\frac{3}{4}(6)$
  - $1\frac{3}{4}(32)$

### Fastening:

- **A- Counter Sunk Screw**
  - N/A to Lay-In Application

- **C- Concealed Bracket**
  - N/A to Lay-In Application
  - N/A with 535

### Mounting Frames:

- **D**
  - Duct size + 2\(\frac{1}{2}(64)\)
  - $\frac{3}{4}(9)$
  - Duct + $\frac{3}{8}(5)$
  - Duct + $\frac{1}{2}(6)$
  - Use with F Border

- **T**
  - Duct size + 2\(\frac{1}{2}(51)\)
  - $\frac{3}{8}(9)$
  - Duct + $\frac{3}{8}(1.5)$
  - Duct size

----

All metric dimensions ( ) are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.

### Project:

#### Engineer:

#### Customer:

219695

### Submittal Date:

2014/05/23

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500 SERIES PANEL MOUNTED RETURN AIR GRILLE

MODULE SIZE

PANEL OPENING = NOM. GRILLE SIZE = ¾" (16)

1½" (38)

1" (25) OR ¾" (14) FLAT TEE

PANEL OVERALL

OPTIONAL OPPOSED BLADE DAMPER

MATERIAL:
- GRILLE: STEEL CONSTRUCTION
- PANEL: STEEL CONSTRUCTION

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

OPTION:
- 5300 OR 5350 C/W COATED STEEL OPPOSED BLADE DAMPER

NOTES:
- MODULE SIZE AND NOM. GRILLE SIZE MUST BE SPECIFIED

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- FACTORY TOLERANCE ±½" (1)

CORE STYLES:
- 530
- 535

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:

2014/05/23

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SM 3 OF 3 REV J
**SDF SPIRAL DUCT FRAME FOR 500, 600 SERIES**

**NOM. SIZE (WIDTH)**

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**MATERIAL:**
- GV GALVANIZED STEEL

**FINISH:**
- MILL FINISH

**NOTES:**
- INTENDED FOR USE IN SPIRAL OR ROUND DUCT APPLICATIONS
- AVAILABLE SIZES:
  - MIN. - 6" X 4" (152 X 102)
  - MAX. - 36" X 16" (914 X 406)
- AVAILABLE SIZE IN 1" INCREMENTS
- OPEN CELL FOAM INSULATION PROVIDES A TIGHT SEAL AROUND THE GRILLE OPENING IN ANY ROUND DUCT
- FITS 500, 600 SERIES GRILLES WITH "F" FRAME.
- FACTORY TOLERANCE +/- 1/32" (1)

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:**

**SDF SPIRAL DUCT FRAME FOR 500, 600 SERIES**