
ADDISON SMITH

Mechanical Contractor, Inc.

HPPG 89ki EXPANSION PROJECT

Air Moving Equipment Submittal Data

Spec 15820



SUBMITTAL

Customer: Addison Smith
Job Name: Honda 89KI Expansion
Job ID: 101513W
Date: January 6, 2014

Submitted By: BJ Borie
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Suite 106
Alpharetta, GA 30005
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Fan Tag: EF-23 thru EF-29
Job Name: Honda 89KI Expansion
Job ID: 101513W
Date: January 6, 2014
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VB - Type B Vaneaxial Fan, Direct Drive

No Drawing Available

FAN DESCRIPTION

Qty	Type	Size	Wt (lb.)
7	VB	42B7	1,621

Approximate weight each, includes fan, motor and accessories.

FAN PERFORMANCE

CFM	SP (in.wg)	RPM	Oper. BHP
35,000	0.125	1162	11.27

Temperature: 70°F, Altitude: 0ft

MOTOR DATA

HP	RPM	Volt/Ph/Hz	Encl
15	1200	230/460/3/60	ODP

Efficiency: Premium

SOUND DATA

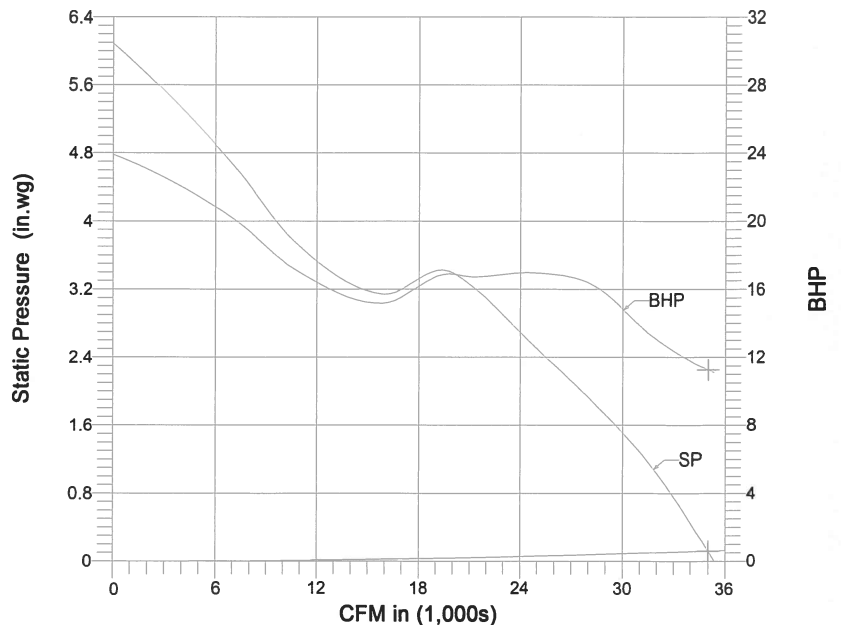
Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA	Sones
Level at Inlet	85	95	98	100	97	94	86	76	102	88	56

LwA: The overall (single value) fan sound power level in dB re. 10⁻¹² Watts, 'A' weighted.

dBA: Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft., using a directivity factor of 1.

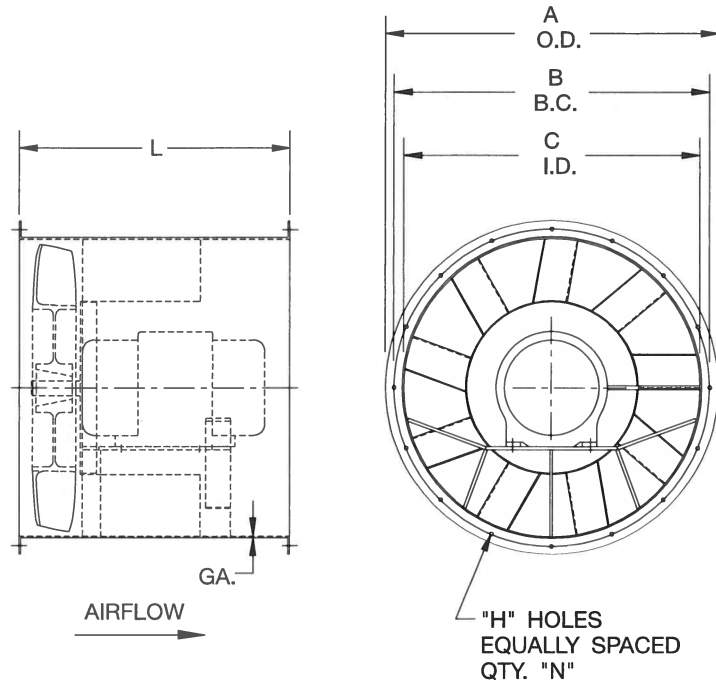
ACCESSORIES INCLUDED

- Inspection Door - Bolted
- Bolt On Vane Section
- Reversed Airflow
- Stack Cap - All Galv
- Curb Base - Steel
- Roof Curb - Type 1, Alum, 12" Tall
- Disc Switch, NEMA 4X, 20HP Max @ 480V, 30A, Non-Fused, 1SPD
- Swingout Construction, Double Post
- Externally Mtd Conduit Box, Mtg/Wiring of Mtr to Conduit Box
- Discharge Birdscreen - PMS Spiral Type - for Stack Cap
- Mount Aerovent Motor



Dimensional Data

Direct Drive Model VB



SIZE	MAX. FRAME	A	B	C	H	L	N	GA.
24	184T	27 ⁵ / ₁₆	25 ⁷ / ₈	24 ¹ / ₁₆	7 ¹ / ₁₆	24	8	10
30	254T	34 ⁵ / ₁₆	32 ³ / ₁₆	29 ¹⁵ / ₁₆	7 ¹ / ₁₆	30	16	7
36	324T	40 ⁷ / ₁₆	38 ³ / ₈	36 ¹ / ₁₆	7 ¹ / ₁₆	33	16	7
42	326T	46 ⁷ / ₁₆	44 ⁵ / ₁₆	42 ¹ / ₁₆	7 ¹ / ₁₆	34	16	7
48	365T	52 ¹⁵ / ₁₆	50 ¹³ / ₁₆	48 ³ / ₁₆	7 ¹ / ₁₆	42	16	7

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION.



Fan Tag: EF-30, 35
Job Name: Honda 89KI Expansion
Job ID: 101513W
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ACX - Centrifugal Roof Ventilator, Downblast, Belt Driven

CONSTRUCTION FEATURES

- Spun aluminum construction
- Backwardly curved, non-overloading wheel.
- Wheel, motor, and drive assembly are isolated from the fan supports by rubber isolators.
- Top cap provides quick access to the wheel, motor, and drive assembly.
- Re-greaseable pillow block ball bearings provide an average life of 500,000 hours.
- Curb cap/venturi assembly.
- Entire fan assembly is balanced and tested.
- Galvanized birdscreen.
- Disconnect switch.

FAN DESCRIPTION

Qty	Type	Size	Wt (lb.)
2	ACX	100D	132

Approximate weight each, includes fan, motor and accessories.

FAN PERFORMANCE

CFM	SP (in.wg)	RPM	Oper. BHP
1,025	0.5	1404	0.21

Temperature: 70°F, Altitude: 0ft

MOTOR DATA

HP	RPM	Volt/Ph/Hz	Encl
1/4	1750	115/1/60	ODP

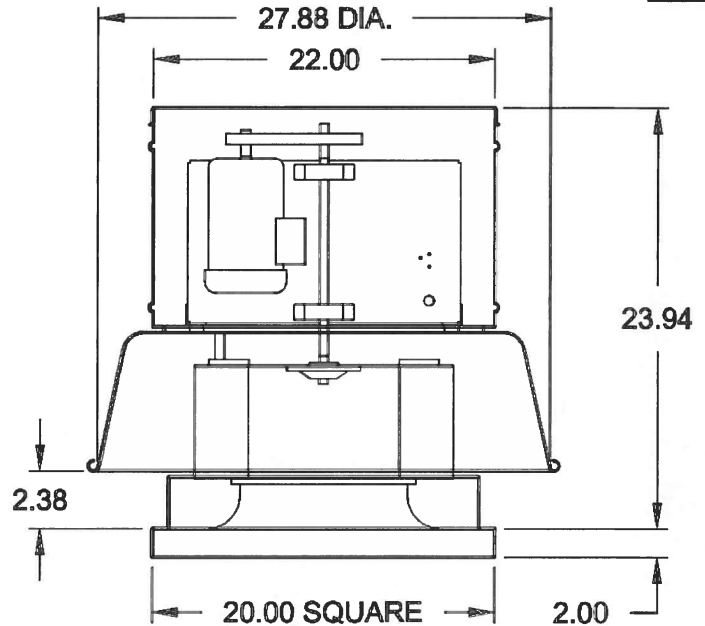
Efficiency: Standard/EPACT

SOUND DATA

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA	Sones
Level at Inlet	66	72	73	71	71	65	59	54	74	60	11.2

LwA: The overall (single value) fan sound power level in dB re. 10⁻¹² Watts, 'A' weighted.

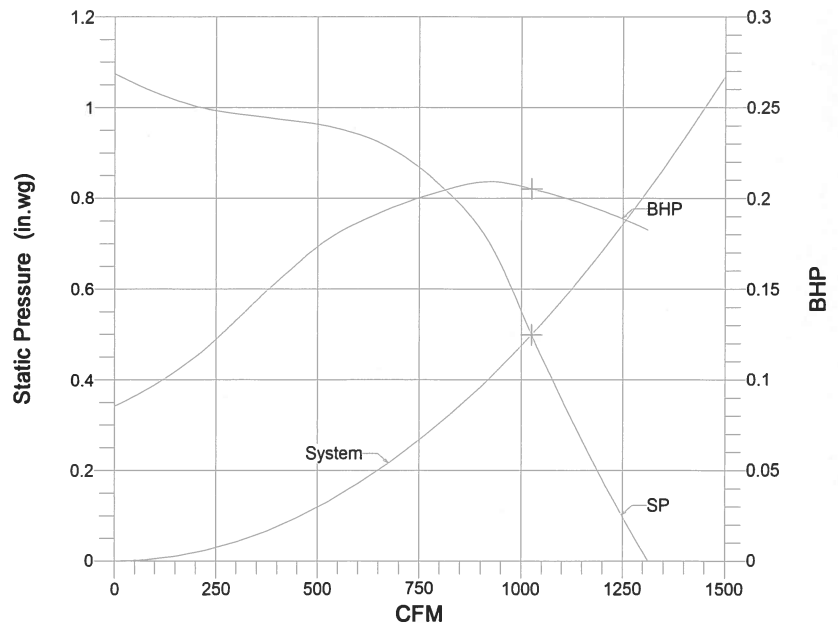
dBA: Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft., using a directivity factor of 1.



ROOF OPENING	14.50 X 14.50
DAMPER SIZE	14.00 X 14.00

ACCESSORIES INCLUDED

- Birdscreen - Galvanized
- Motorized Damper 115V
- Roof Curb, Canted, Galv. w/ Insulation 12" H
- Disconnect Switch-Unfused (NEMA 4)





Motorized Damper 115V

Fan Size: 100D

FIG. A (NO EXTERNAL FLANGE)

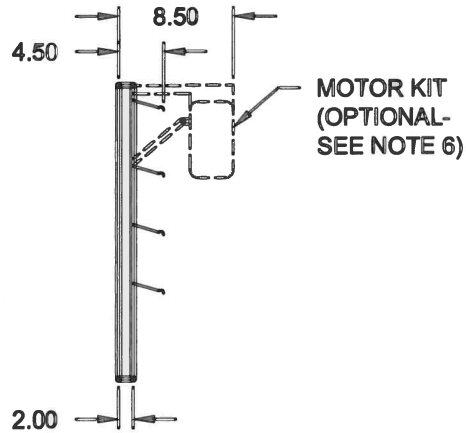
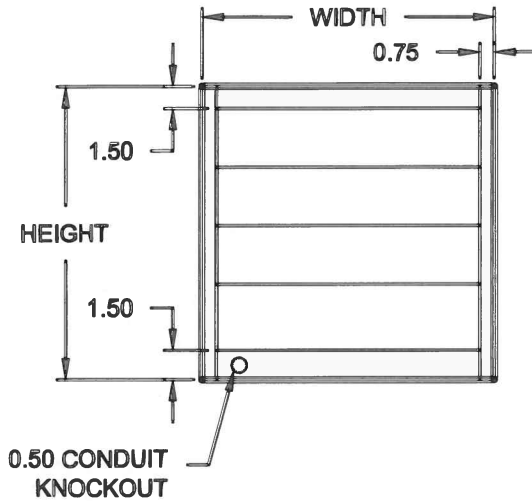
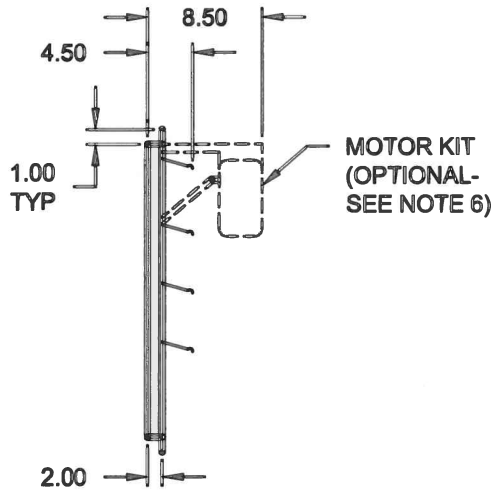
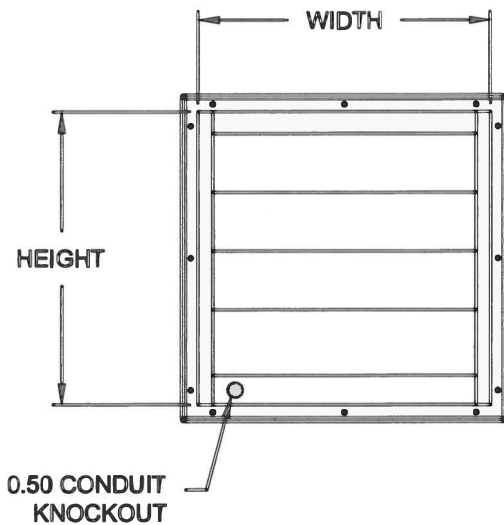


FIG. B (EXTERNAL FLANGE)



NOTES:

1. FRAME: 19 GA. GALVANIZED STEEL.
2. BLADES: 26 GA. MILL FINISH ALUM.
3. FELT SEAL ON LEADING EDGE OF BLADES.
4. TIE ROD ATTACHED TO ALL BLADES.
5. DAMPERS INDIVIDUALLY PACKAGED.
6. FOR MOTORIZED APPLICATIONS (OPT.) MOTOR KITS ARE RATED AT 115/230V OR 460V. FOR 575V APPLICATIONS, A TRANSFORMER IS REQUIRED WITH A 115V MOTOR PACK.

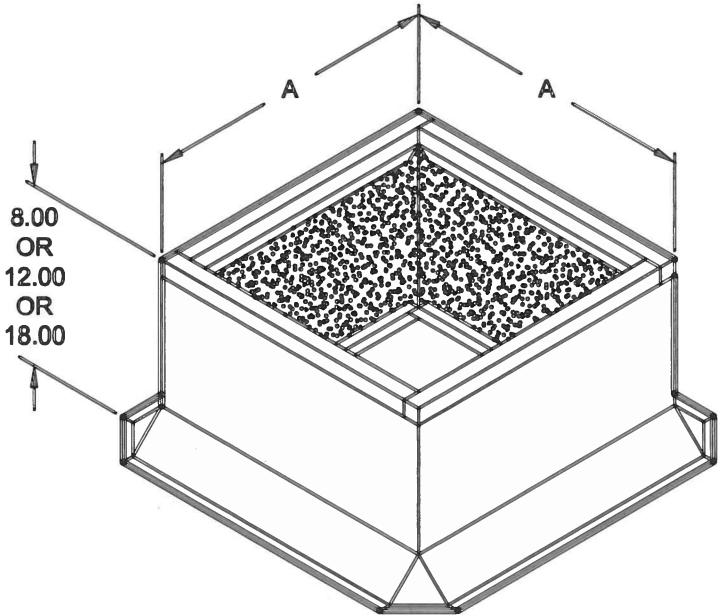
SIZE	FIG.	HEIGHT	WIDTH
070	A	10.00	10.00
075	A	10.00	10.00
085	A	10.00	10.00
100	A	14.00	14.00
120	A	14.00	14.00
140	A	18.00	18.00
160	A	20.00	20.00
180	A	24.00	24.00
210	A	24.00	24.00
240	A	28.00	28.00
300	A	34.00	34.00
360	A	40.00	40.00
420	A	46.00	46.00
480	B	50.00	50.00



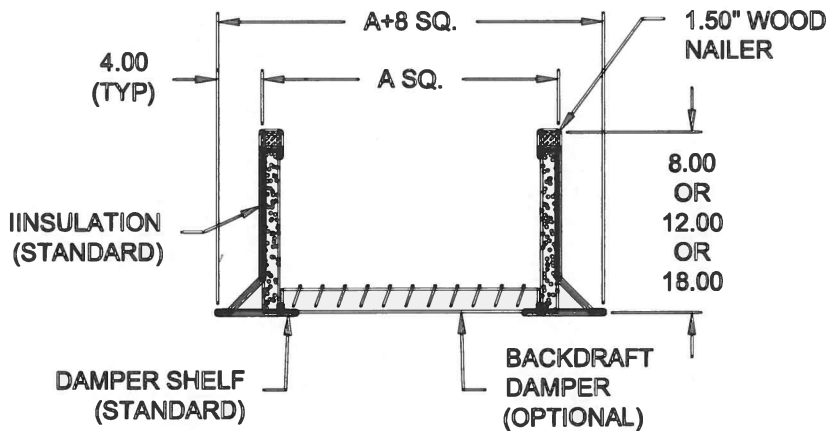
Fan Tag: EF-30, 35
Job Name: Honda 89KI Expansion
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Roof Curb, Canted, Galv. w/ Insulation 12" H

Fan Size: 100D



FAN SIZE	A SQ.
070	15.50 X 15.50
075	15.50 X 15.50
085	15.50 X 15.50
100	18.50 X 18.50
120	18.50 X 18.50
140	22.50 X 22.50
160	24.50 X 24.50
180	28.50 X 28.50
210	28.50 X 28.50
240	32.50 X 32.50
300	38.50 X 38.50
360	44.50 X 44.50
420	50.50 X 50.50
480	56.50 X 56.50



FEATURES

- 18 GAUGE GALVANIZED STEEL CONSTRUCTION.
- .063 INCH THICK ALUMINUM CONSTRUCTION.
- ALL WELDED WATERTIGHT CONSTRUCTION.
- WOOD NAILER STRIPS ARE STANDARD.
- DAMPER SHELF.
- LARGE 3" BUILT-IN 45° CANT TO ACCOMMODATE ROOFING MATERIAL TO TOP OF CURB. CANT IS BEVELED AT CORNERS FOR BETTER LAY OF ROOFING MATERIAL.
- LINED WITH 1.50" GLASS FIBER FIRE-RESISTANT, SOUND-ABSORBING INSULATION.

NOTES:

1. INSIDE OF CURB IS 3" LESS THAN DIMENSION "A".
2. CURBS ARE SIZED 1.50" LESS THAN FAN BASE (CAP) TO ALLOW .75" EACH SIDE FOR FLASHING MATERIAL AND CLEARANCE.
3. WHEN USING A MOTOR OPERATED DAMPER IN THE CURB, A 12" HIGH (MINIMUM) CURB IS REQUIRED.
4. ALL DIMENSIONS $\pm 1/8"$.

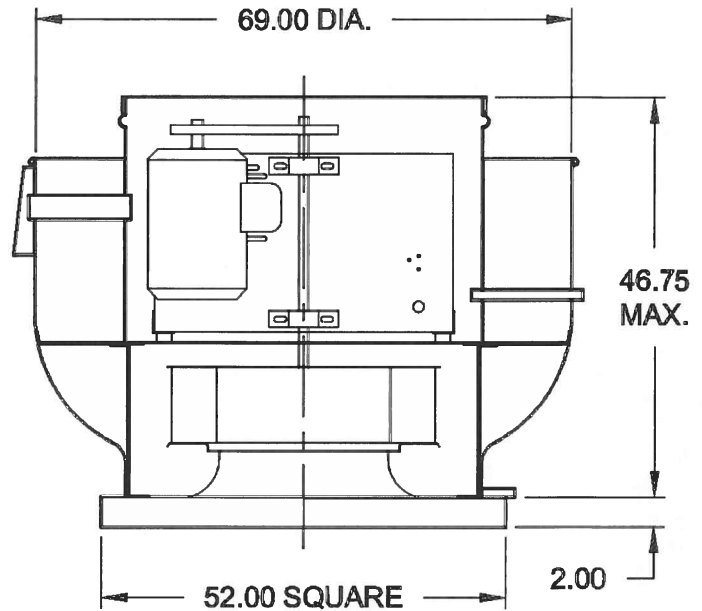


Fan Tag: EF-31
Job Name: Honda 89KI Expansion
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ATB - Centrifugal Roof Ventilator, Upblast, Belt Driven
CONSTRUCTION FEATURES

- Spun aluminum construction
- Backwardly curved, non-overloading wheel.
- Wheel, motor, and drive assembly are isolated from the fan supports by rubber isolators.
- Top cap provides quick access to the wheel, motor, and drive assembly.
- Re-greaseable pillow block ball bearings provide an average life of 500,000 hours.
- Curb cap/venturi assembly.
- Entire fan assembly is balanced and tested.
- Galvanized birdscreen.
- Disconnect switch.



FAN DESCRIPTION

Qty	Type	Size	Wt (lb.)
1	ATB	420B	603

Approximate weight each, includes fan, motor and accessories.

FAN PERFORMANCE

CFM	SP (in.wg)	RPM	Oper. BHP
20,000	0.25	525	3.24

Temperature: 70°F, Altitude: 0ft

MOTOR DATA

HP	RPM	Volt/Ph/Hz	Encl
5	1750	460/3/60	ODP

Efficiency: Premium

SOUND DATA

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA	Sones
Level at Inlet	90	90	85	78	78	71	64	55	83	69	21

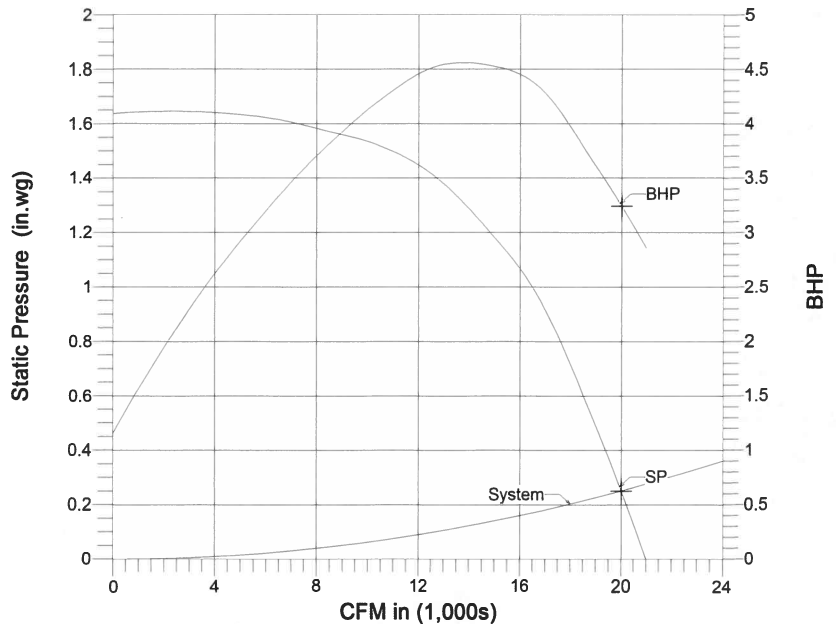
LwA: The overall (single value) fan sound power level in dB re. 10⁻¹² Watts, 'A' weighted.

dBA: Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft., using a directivity factor of 1.

ACCESSORIES INCLUDED

- Birdscreen - Zinc Plated Steel
- Motorized Damper 115V
- Roof Curb, Canted, Galv. w/ Insulation 12" H
- Disconnect Switch-Unfused (NEMA 4)

ROOF OPENING	46.50 X 46.50
DAMPER SIZE	46.00 X 46.00





Motorized Damper 115V

Fan Size: 420B

FIG. A (NO EXTERNAL FLANGE)

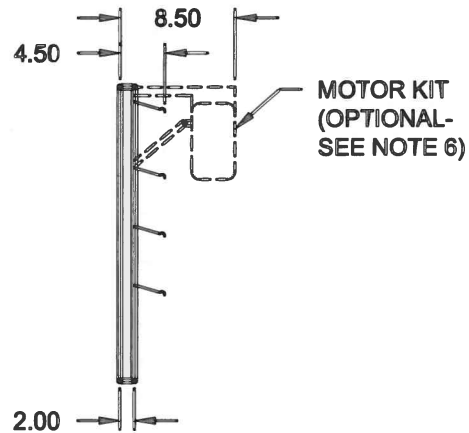
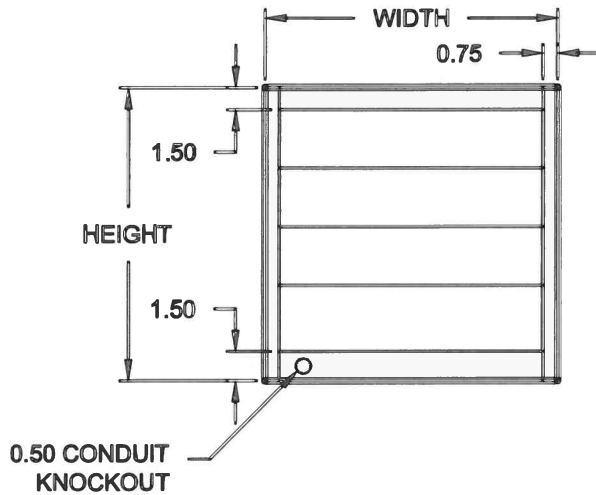
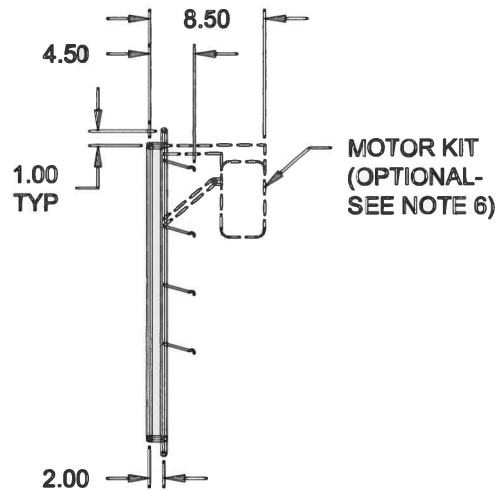
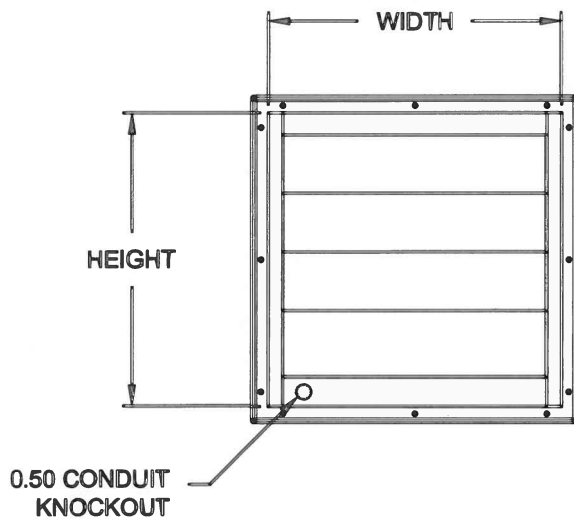


FIG. B (EXTERNAL FLANGE)



NOTES:

1. FRAME: 19 GA. GALVANIZED STEEL.
2. BLADES: 26 GA. MILL FINISH ALUM.
3. FELT SEAL ON LEADING EDGE OF BLADES.
4. TIE ROD ATTACHED TO ALL BLADES.
5. DAMPERS INDIVIDUALLY PACKAGED.
6. FOR MOTORIZED APPLICATIONS (OPT.) MOTOR KITS ARE RATED AT 115/230V OR 460V. FOR 575V APPLICATIONS, A TRANSFORMER IS REQUIRED WITH A 115V MOTOR PACK.

SIZE	FIG.	HEIGHT	WIDTH
110	A	18.00	18.00
120	A	18.00	18.00
140	A	18.00	18.00
160	A	18.00	18.00
180	A	24.00	24.00
210	A	28.00	28.00
240	A	28.00	28.00
300	A	34.00	34.00
360	A	40.00	40.00
420	A	46.00	46.00
480	B	50.00	50.00

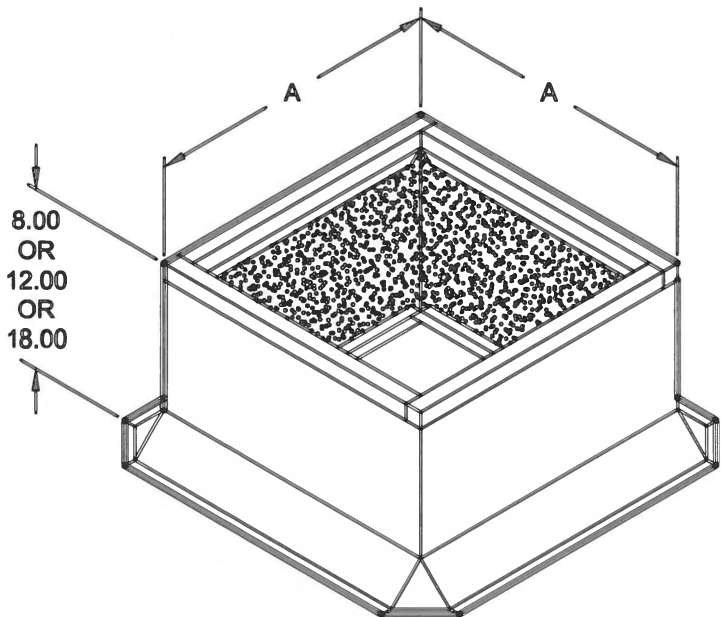
DMP-G000 BCRU 008-4101



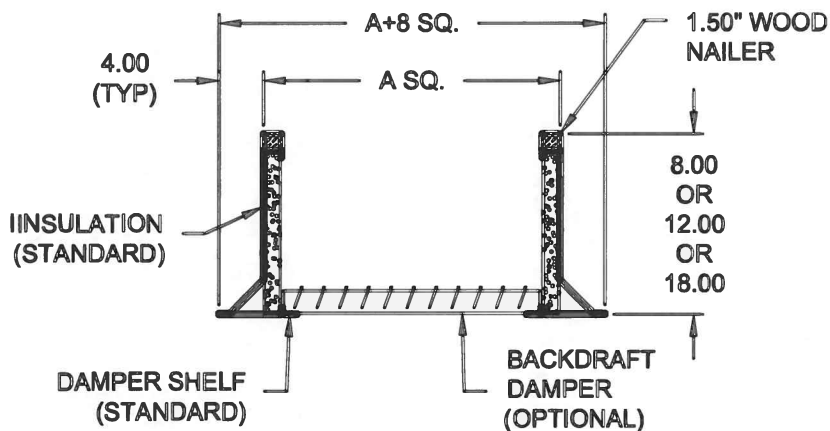
Fan Tag: EF-31
Job Name: Honda 89KI Expansion
Job ID: 101513W
Date: January 6, 2014
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Roof Curb, Canted, Galv. w/ Insulation 12" H

Fan Size: 420B



FAN SIZE	A SQ.
110	22.50 X 22.50
120	22.50 X 22.50
140	22.50 X 22.50
160	22.50 X 22.50
180	28.50 X 28.50
210	32.50 X 32.50
240	32.50 X 32.50
300	38.50 X 38.50
360	44.50 X 44.50
420	50.50 X 50.50
480	56.50 X 56.50



FEATURES

- 18 GAUGE GALVANIZED STEEL CONSTRUCTION.
- .063 INCH THICK ALUMINUM CONSTRUCTION.
- ALL WELDED WATERTIGHT CONSTRUCTION.
- WOOD NAILER STRIPS ARE STANDARD.
- DAMPER SHELF.
- LARGE 3" BUILT-IN 45° CANT TO ACCOMMODATE ROOFING MATERIAL TO TOP OF CURB. CANT IS BEVELED AT CORNERS FOR BETTER LAY OF ROOFING MATERIAL.
- LINED WITH 1.50" GLASS FIBER FIRE-RESISTANT, SOUND-ABSORBING INSULATION.

NOTES:

1. INSIDE OF CURB IS 3" LESS THAN DIMENSION "A".
2. CURBS ARE SIZED 1.50" LESS THAN FAN BASE (CAP) TO ALLOW .75" EACH SIDE FOR FLASHING MATERIAL AND CLEARANCE.
3. WHEN USING A MOTOR OPERATED DAMPER IN THE CURB, A 12" HIGH (MINIMUM) CURB IS REQUIRED.
4. ALL DIMENSIONS $\pm 1/8"$.

Fan Tag: EF-32
Job Name: Honda 89KI Expansion
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ATB - Centrifugal Roof Ventilator, Upblast, Belt Driven

CONSTRUCTION FEATURES

- Spun aluminum construction
- Backwardly curved, non-overloading wheel.
- Wheel, motor, and drive assembly are isolated from the fan supports by rubber isolators.
- Top cap provides quick access to the wheel, motor, and drive assembly.
- Re-greaseable pillow block ball bearings provide an average life of 500,000 hours.
- Curb cap/venturi assembly.
- Entire fan assembly is balanced and tested.
- Galvanized birdscreen.
- Disconnect switch.

FAN DESCRIPTION

Qty	Type	Size	Wt (lb.)
1	ATB	210B	253

Approximate weight each, includes fan, motor and accessories.

FAN PERFORMANCE

CFM	SP (in.wg)	RPM	Oper. BHP
5,600	0.25	916	0.95

Temperature: 70°F, Altitude: 0ft

MOTOR DATA

HP	RPM	Volt/Ph/Hz	Encl
1	1750	460/3/60	ODP

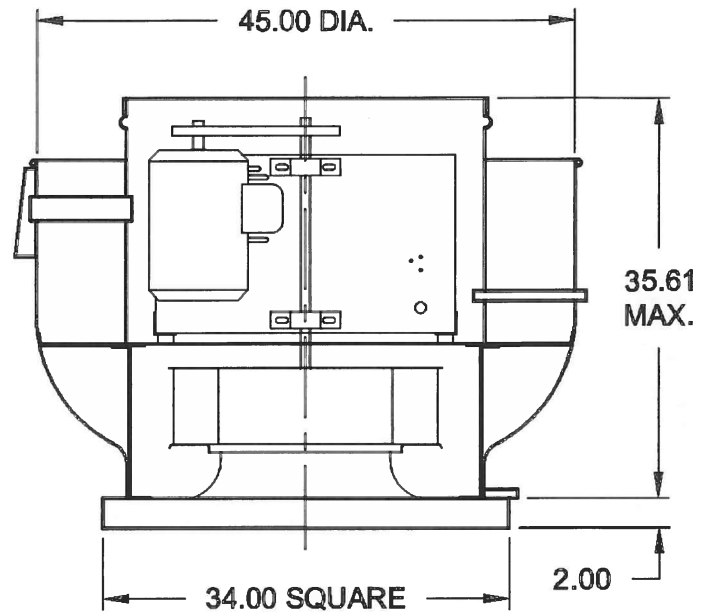
Efficiency: Premium

SOUND DATA

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA	Sones
Level at Inlet	82	87	83	79	80	77	68	59	84	70	20

LwA: The overall (single value) fan sound power level in dB re. 10⁻¹² Watts, 'A' weighted.

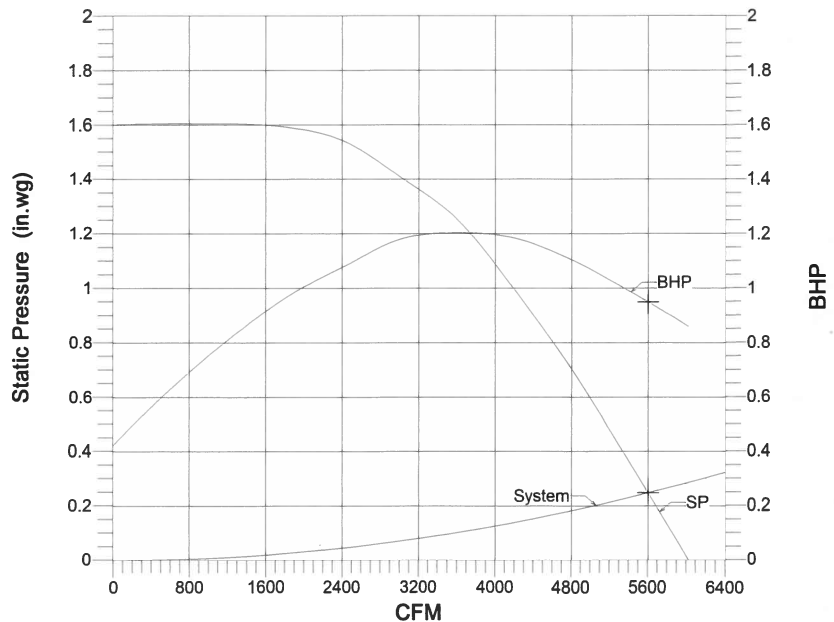
dBA: Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft., using a directivity factor of 1.



ROOF OPENING	28.50 X 28.50
DAMPER SIZE	28.00 X 28.00

ACCESSORIES INCLUDED

- Birdscreen - Zinc Plated Steel
- Motorized Damper 115V
- Roof Curb, Canted, Galv. w/ Insulation 12" H
- Disconnect Switch-Unfused (NEMA 4)





Motorized Damper 115V

Fan Size: 210B

FIG. A (NO EXTERNAL FLANGE)

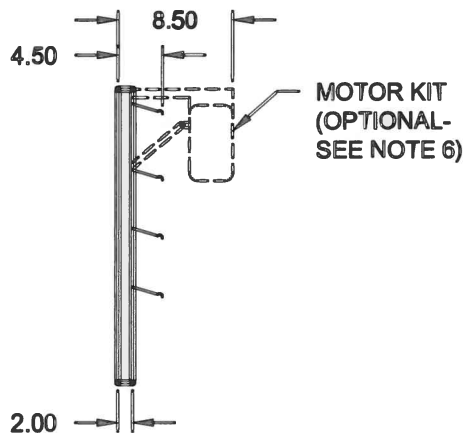
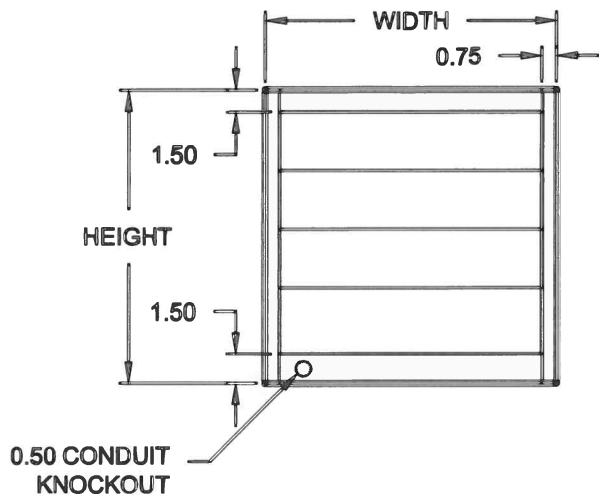
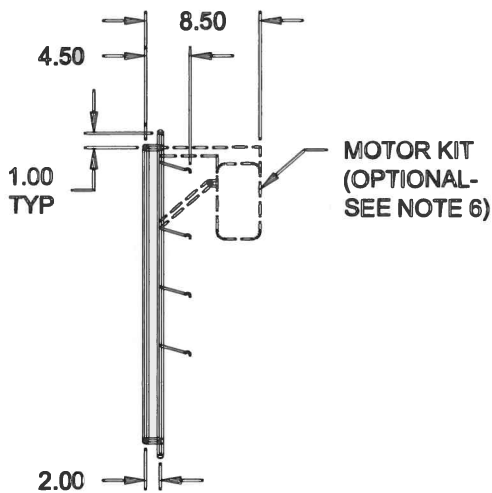
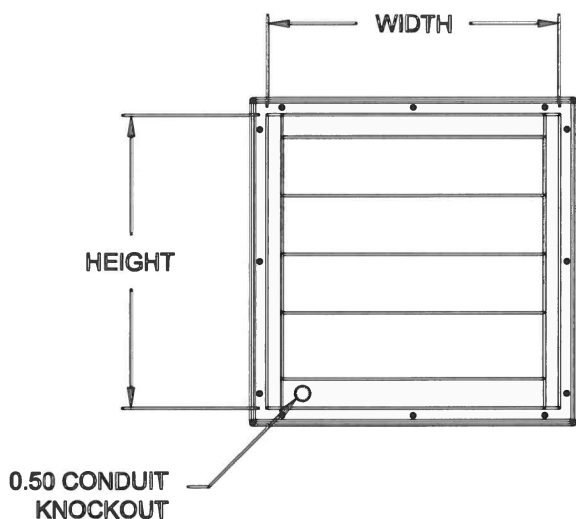


FIG. B (EXTERNAL FLANGE)



NOTES:

1. FRAME: 19 GA. GALVANIZED STEEL.
2. BLADES: 26 GA. MILL FINISH ALUM.
3. FELT SEAL ON LEADING EDGE OF BLADES.
4. TIE ROD ATTACHED TO ALL BLADES.
5. DAMPERS INDIVIDUALLY PACKAGED.
6. FOR MOTORIZED APPLICATIONS (OPT.) MOTOR KITS ARE RATED AT 115/230V OR 460V. FOR 575V APPLICATIONS, A TRANSFORMER IS REQUIRED WITH A 115V MOTOR PACK.

SIZE	FIG.	HEIGHT	WIDTH
110	A	18.00	18.00
120	A	18.00	18.00
140	A	18.00	18.00
160	A	18.00	18.00
180	A	24.00	24.00
210	A	28.00	28.00
240	A	28.00	28.00
300	A	34.00	34.00
360	A	40.00	40.00
420	A	46.00	46.00
480	B	50.00	50.00

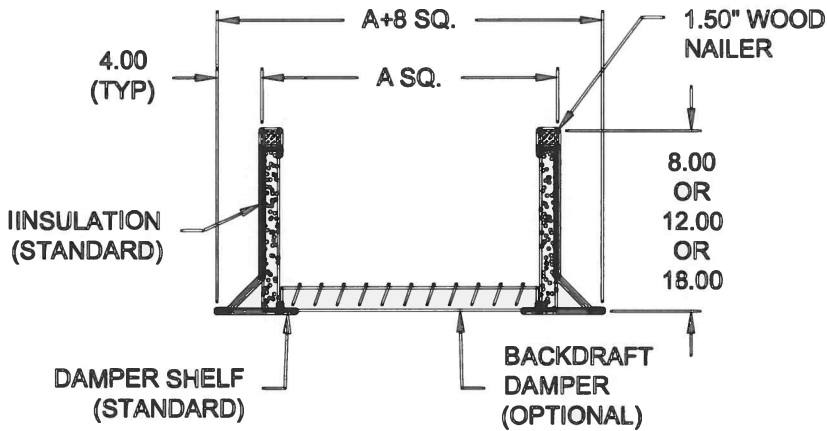
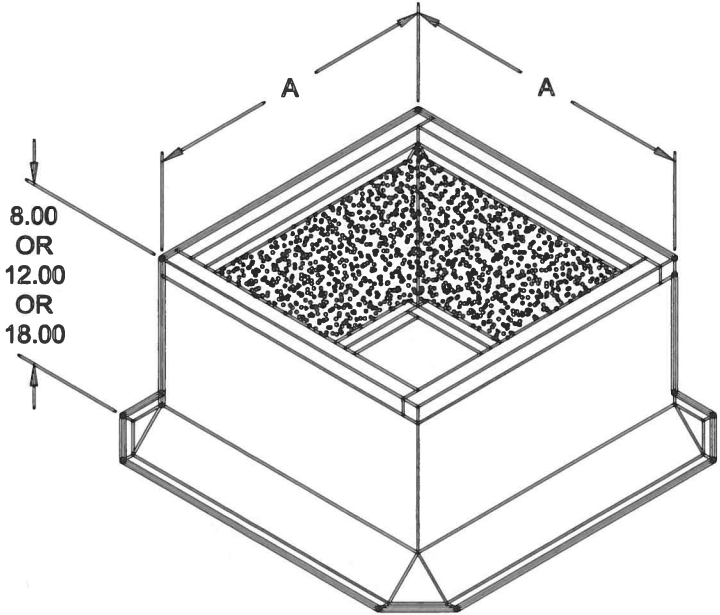
DMP-G000 BCRU 008-4101



Fan Tag: EF-32
Job Name: Honda 89KI Expansion
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Roof Curb, Canted, Galv. w/ Insulation 12" H

Fan Size: 210B



FAN SIZE	A SQ.
110	22.50 X 22.50
120	22.50 X 22.50
140	22.50 X 22.50
160	22.50 X 22.50
180	28.50 X 28.50
210	32.50 X 32.50
240	32.50 X 32.50
300	38.50 X 38.50
360	44.50 X 44.50
420	50.50 X 50.50
480	56.50 X 56.50

FEATURES

- 18 GAUGE GALVANIZED STEEL CONSTRUCTION.
- .063 INCH THICK ALUMINUM CONSTRUCTION.
- ALL WELDED WATERTIGHT CONSTRUCTION.
- WOOD NAILER STRIPS ARE STANDARD.
- DAMPER SHELF.
- LARGE 3" BUILT-IN 45° CANT TO ACCOMMODATE ROOFING MATERIAL TO TOP OF CURB. CANT IS BEVELED AT CORNERS FOR BETTER LAY OF ROOFING MATERIAL.
- LINED WITH 1.50" GLASS FIBER FIRE-RESISTANT, SOUND-ABSORBING INSULATION.

NOTES:

1. INSIDE OF CURB IS 3" LESS THAN DIMENSION "A".
2. CURBS ARE SIZED 1.50" LESS THAN FAN BASE (CAP) TO ALLOW .75" EACH SIDE FOR FLASHING MATERIAL AND CLEARANCE.
3. WHEN USING A MOTOR OPERATED DAMPER IN THE CURB, A 12" HIGH (MINIMUM) CURB IS REQUIRED.
4. ALL DIMENSIONS $\pm 1/8"$.



Fan Tag: EF-33, 34
Job Name: Honda 89KI Expansion
Job ID: 101513W
Date: January 6, 2014
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ACX - Centrifugal Roof Ventilator, Downblast, Belt Driven

CONSTRUCTION FEATURES

- Spun aluminum construction
- Backwardly curved, non-overloading wheel.
- Wheel, motor, and drive assembly are isolated from the fan supports by rubber isolators.
- Top cap provides quick access to the wheel, motor, and drive assembly.
- Re-greaseable pillow block ball bearings provide an average life of 500,000 hours.
- Curb cap/venturi assembly.
- Entire fan assembly is balanced and tested.
- Galvanized birdscreen.
- Disconnect switch.

FAN DESCRIPTION

Qty	Type	Size	Wt (lb.)
2	ACX	300D	401

Approximate weight each, includes fan, motor and accessories.

FAN PERFORMANCE

CFM	SP (in.wg)	RPM	Oper. BHP
7,500	0.25	573	0.84

Temperature: 70°F, Altitude: 0ft

MOTOR DATA

HP	RPM	Volt/Ph/Hz	Encl
1	1750	460/3/60	ODP

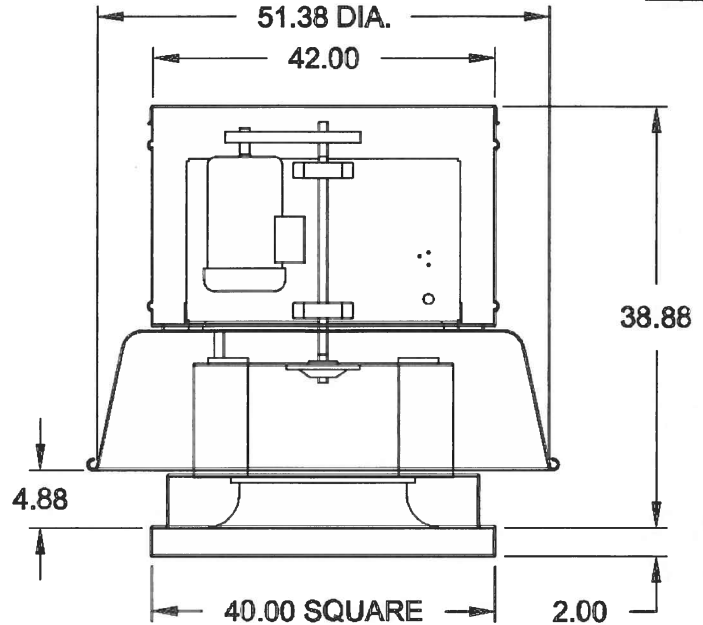
Efficiency: Premium

SOUND DATA

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA	Sones
Level at Inlet	81	80	76	71	71	66	58	49	75	61	12.4

LwA: The overall (single value) fan sound power level in dB re. 10⁻¹² Watts, 'A' weighted.

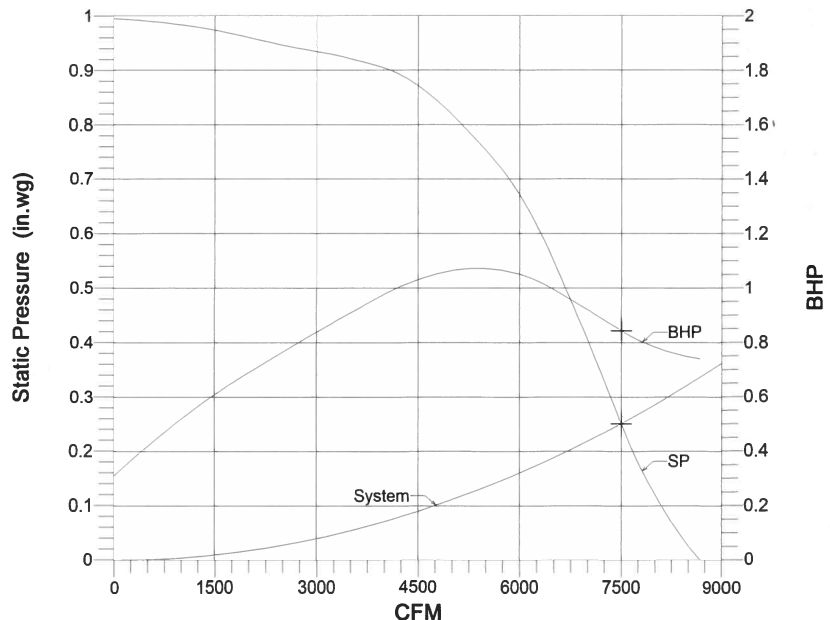
dBA: Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft., using a directivity factor of 1.



ROOF OPENING	34.50 X 34.50
DAMPER SIZE	34.00 X 34.00

ACCESSORIES INCLUDED

- Birdscreen - Galvanized
- Motorized Damper 115V
- Roof Curb, Canted, Galv. w/ Insulation 12" H
- Disconnect Switch-Unfused (NEMA 4)





Fan Tag: EF-33, 34
 Job Name: Honda 89KI Expansion
 Job ID: 101513W
 Date: January 6, 2014
 Page: 13

Motorized Damper 115V

Fan Size: 300D

FIG. A (NO EXTERNAL FLANGE)

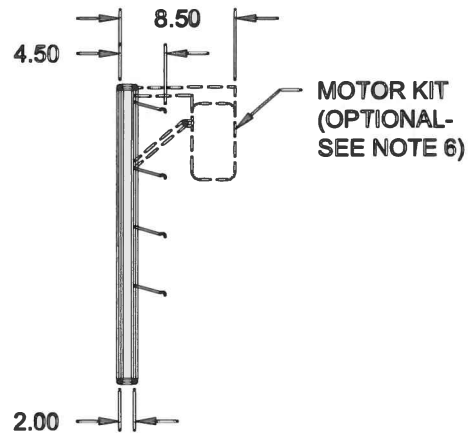
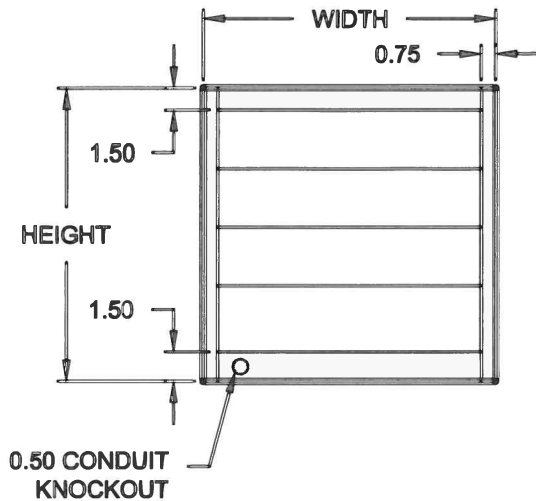
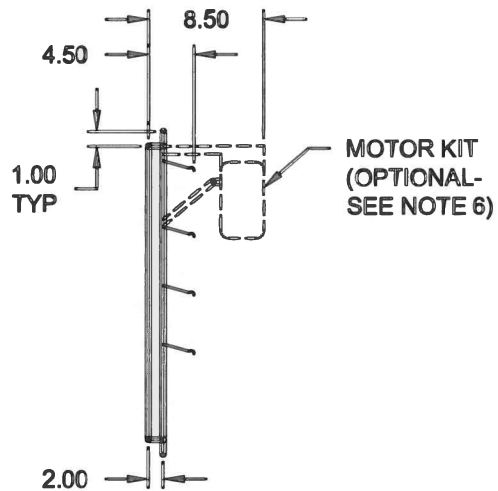
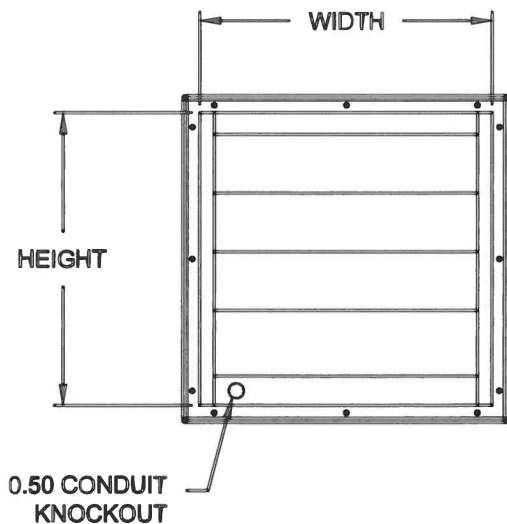


FIG. B (EXTERNAL FLANGE)



NOTES:

1. FRAME: 19 GA. GALVANIZED STEEL.
2. BLADES: 26 GA. MILL FINISH ALUM.
3. FELT SEAL ON LEADING EDGE OF BLADES.
4. TIE ROD ATTACHED TO ALL BLADES.
5. DAMPERS INDIVIDUALLY PACKAGED.
6. FOR MOTORIZED APPLICATIONS (OPT.) MOTOR KITS ARE RATED AT 115/230V OR 460V. FOR 575V APPLICATIONS, A TRANSFORMER IS REQUIRED WITH A 115V MOTOR PACK.

SIZE	FIG.	HEIGHT	WIDTH
070	A	10.00	10.00
075	A	10.00	10.00
085	A	10.00	10.00
100	A	14.00	14.00
120	A	14.00	14.00
140	A	18.00	18.00
160	A	20.00	20.00
180	A	24.00	24.00
210	A	24.00	24.00
240	A	28.00	28.00
300	A	34.00	34.00
360	A	40.00	40.00
420	A	46.00	46.00
480	B	50.00	50.00

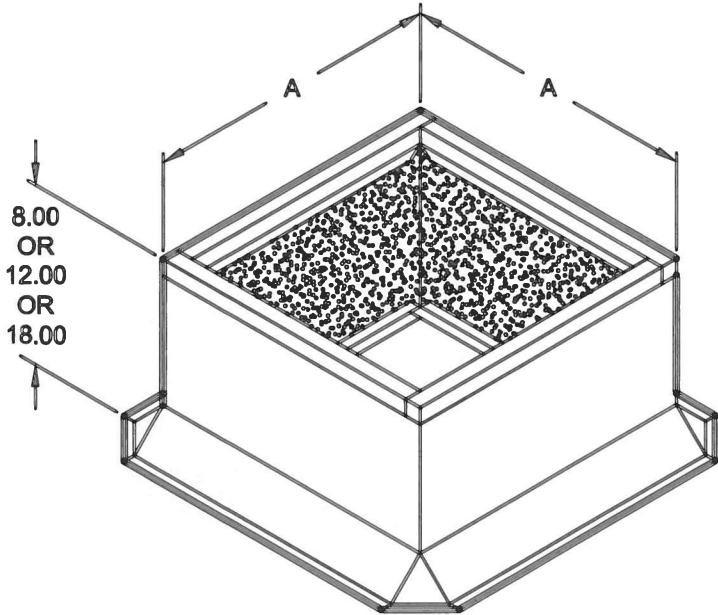
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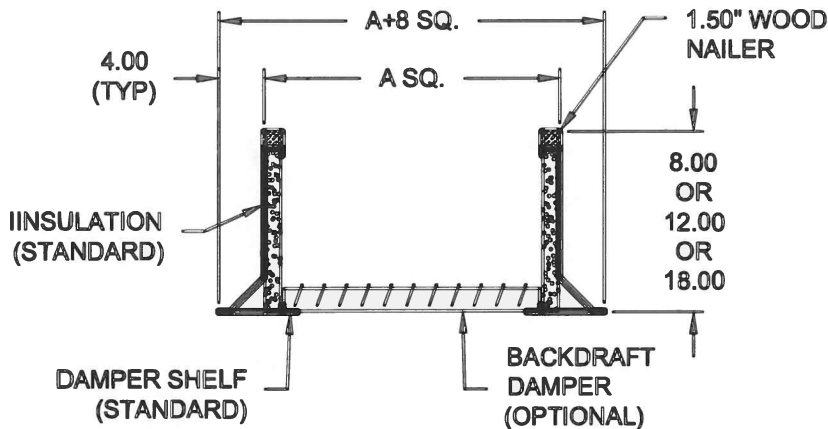
Fan Tag: EF-33, 34
Job Name: Honda 89KI Expansion
Job ID: 101513W
Date: January 6, 2014
Page: 14

Roof Curb, Canted, Galv. w/ Insulation 12" H

Fan Size: 300D



FAN SIZE	A SQ.
070	15.50 X 15.50
075	15.50 X 15.50
085	15.50 X 15.50
100	18.50 X 18.50
120	18.50 X 18.50
140	22.50 X 22.50
160	24.50 X 24.50
180	28.50 X 28.50
210	28.50 X 28.50
240	32.50 X 32.50
300	38.50 X 38.50
360	44.50 X 44.50
420	50.50 X 50.50
480	56.50 X 56.50



FEATURES

- 18 GAUGE GALVANIZED STEEL CONSTRUCTION.
- .063 INCH THICK ALUMINUM CONSTRUCTION.
- ALL WELDED WATERTIGHT CONSTRUCTION.
- WOOD NAILER STRIPS ARE STANDARD.
- DAMPER SHELF.
- LARGE 3" BUILT-IN 45° CANT TO ACCOMMODATE ROOFING MATERIAL TO TOP OF CURB. CANT IS BEVELED AT CORNERS FOR BETTER LAY OF ROOFING MATERIAL.
- LINED WITH 1.50" GLASS FIBER FIRE-RESISTANT, SOUND-ABSORBING INSULATION.

NOTES:

1. INSIDE OF CURB IS 3" LESS THAN DIMENSION "A".
2. CURBS ARE SIZED 1.50" LESS THAN FAN BASE (CAP) TO ALLOW .75" EACH SIDE FOR FLASHING MATERIAL AND CLEARANCE.
3. WHEN USING A MOTOR OPERATED DAMPER IN THE CURB, A 12" HIGH (MINIMUM) CURB IS REQUIRED.
4. ALL DIMENSIONS ±1/8".



Fan Tag: EF-36, 37
Job Name: Honda 89KI Expansion
Job ID: 101513W
Date: January 6, 2014
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ACX - Centrifugal Roof Ventilator, Downblast, Belt Driven
CONSTRUCTION FEATURES

Spun aluminum construction
 Backwardly curved, non-overloading wheel.
 Wheel, motor, and drive assembly are isolated from the fan supports by rubber isolators.
 Top cap provides quick access to the wheel, motor, and drive assembly.
 Re-greaseable pillow block ball bearings provide an average life of 500,000 hours.
 Curb cap/venturi assembly.
 Entire fan assembly is balanced and tested.
 Galvanized birdscreen.
 Disconnect switch.

FAN DESCRIPTION

Qty	Type	Size	Wt (lb.)
2	ACX	180D	208

Approximate weight each, includes fan, motor and accessories.

FAN PERFORMANCE

CFM	SP (in.wg)	RPM	Oper. BHP
4,800	0.25	1075	1.02

Temperature: 70°F, Altitude: 0ft

MOTOR DATA

HP	RPM	Volt/Ph/Hz	Encl
1-1/2	1750	460/3/60	ODP

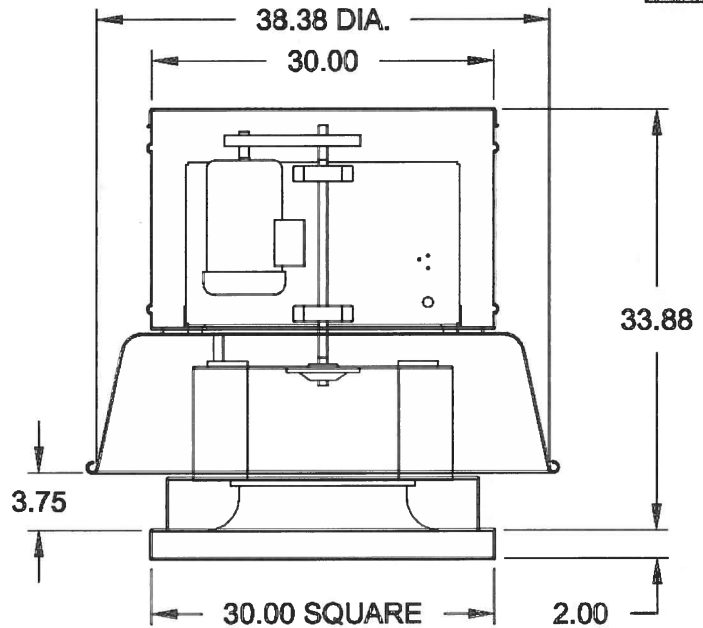
Efficiency: Premium

SOUND DATA

Octave Bands	1	2	3	4	5	6	7	8	LwA	dBA	Sones
Level at Inlet	80	86	85	81	79	76	69	59	84	70	20

LwA: The overall (single value) fan sound power level in dB re. 10⁻¹² Watts, 'A' weighted.

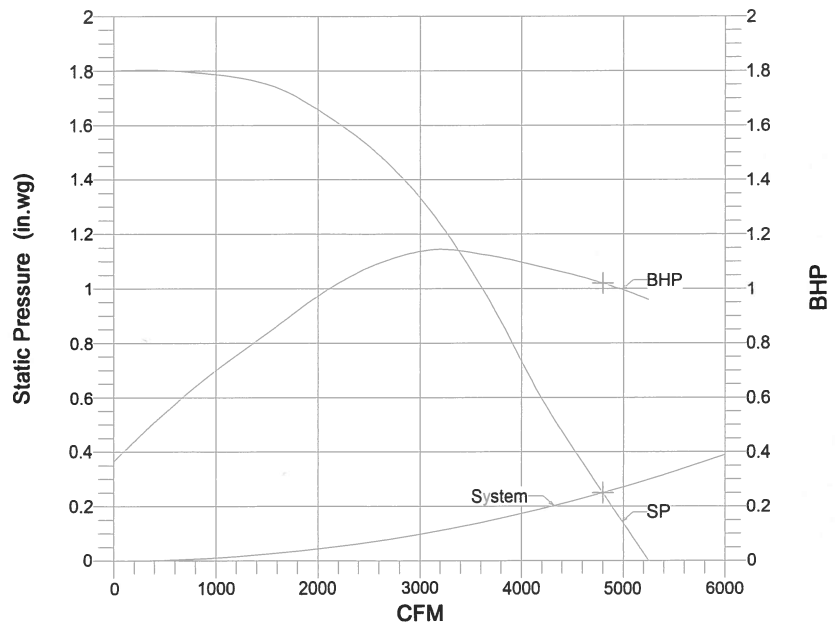
dBA: Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft., using a directivity factor of 1.



ROOF OPENING	24.50 X 24.50
DAMPER SIZE	24.00 X 24.00

ACCESSORIES INCLUDED

- Birdscreen - Galvanized
- Motorized Damper 115V
- Roof Curb, Canted, Galv. w/ Insulation 12" H
- Disconnect Switch-Unfused (NEMA 4)



Motorized Damper 115V

Fan Size: 180D

FIG. A (NO EXTERNAL FLANGE)

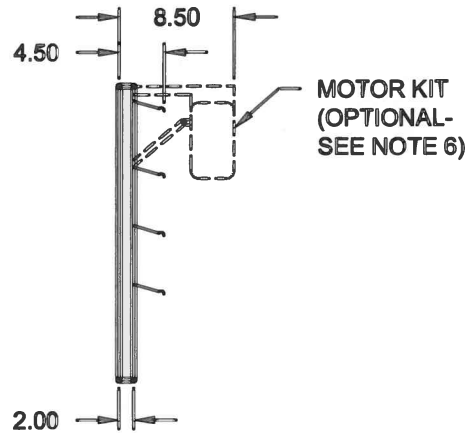
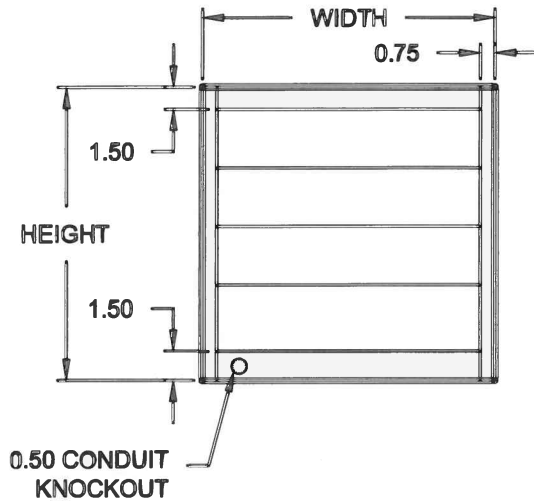
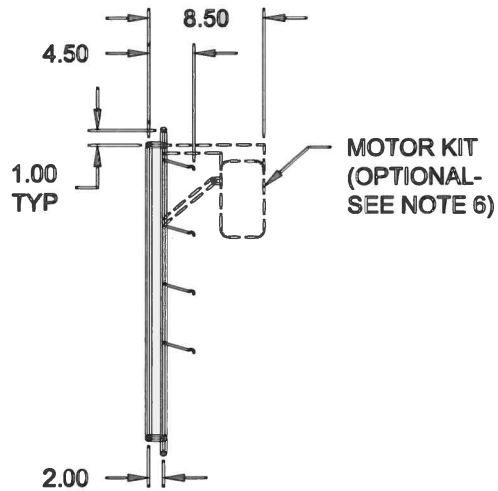
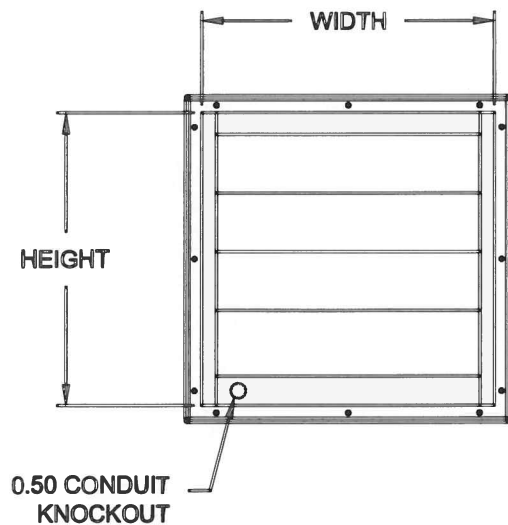


FIG. B (EXTERNAL FLANGE)



NOTES:

1. FRAME: 19 GA. GALVANIZED STEEL.
2. BLADES: 26 GA. MILL FINISH ALUM.
3. FELT SEAL ON LEADING EDGE OF BLADES.
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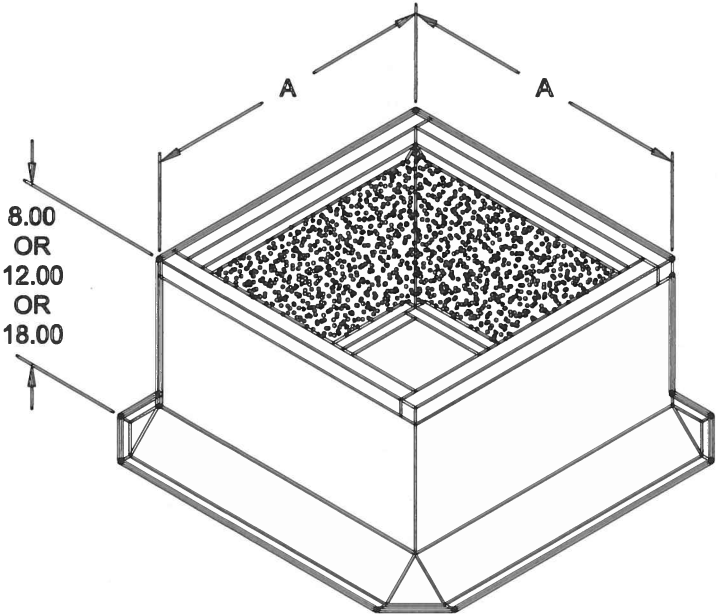
SIZE	FIG.	HEIGHT	WIDTH
070	A	10.00	10.00
075	A	10.00	10.00
085	A	10.00	10.00
100	A	14.00	14.00
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160	A	20.00	20.00
180	A	24.00	24.00
210	A	24.00	24.00
240	A	28.00	28.00
300	A	34.00	34.00
360	A	40.00	40.00
420	A	46.00	46.00
480	B	50.00	50.00



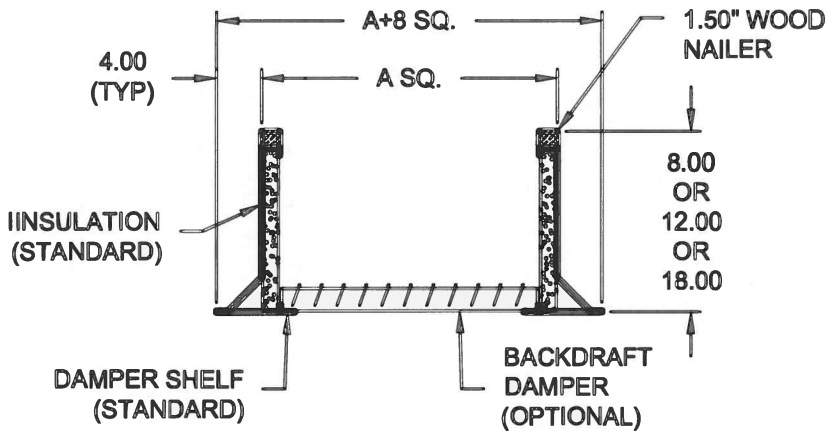
Fan Tag: EF-36, 37
Job Name: Honda 89KI Expansion
Job ID: 101513W
Date: January 6, 2014
Page: 17

Roof Curb, Canted, Galv. w/ Insulation 12" H

Fan Size: 180D



FAN SIZE	A SQ.
070	15.50 X 15.50
075	15.50 X 15.50
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140	22.50 X 22.50
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FEATURES

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4. ALL DIMENSIONS $\pm 1/8"$.