

Toshiba Carrier

RAV Series Ductless Wind Baffle Fabrication and Installation

RAV—SP180AT2—UL

RAV—SP240AT2—UL

RAV—SP300AT2—UL

RAV—SP360AT2—UL

RAV—SP420AT2—UL




Installation Instructions

SAFETY CONSIDERATIONS

Installing and servicing air-conditioning equipment can be hazardous due to system pressures and electrical components. Only trained and qualified personnel should install or service air-conditioning equipment. When working on air-conditioning equipment, observe the precautions provided in literature, tags, and labels attached to the unit.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Use quenching cloth for brazing operations.

Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and National Electrical Code (NEC), ANSI/NFPA 70, Canadian Electrical Code CSA C22.1 and local codes and ordinances for special requirements.

Recognize safety information. This is the safety – alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: **DANGER**, **WARNING**, and **CAUTION**. These words are used with the safety – alert symbol.

DANGER identifies the most serious hazards which **will** result in severe personal injury or death.

WARNING signifies hazards which **could** result in personal injury or death.

CAUTION is used to identify unsafe practices which **may** result in minor personal injury or product and property damage.

NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

GENERAL

This document provides dimensional information for the field fabrication and installation of wind baffles for the Toshiba Carrier RAV series Outdoor Units. Wind baffle dimensions are given for all 3 cabinet sizes:

- RAV–SP180AT2–UL
- RAV–SP240AT2–UL
- RAV–SP300AT2–UL/RAV–SP360AT2–UL/RAV–SP420AT2–UL

NOTE: This information is solely intended to provide guidance for the field fabrication of wind baffles for the Toshiba Carrier RAV series outdoor units. These parts are not available for order from Carrier; it is the responsibility of the installing contractor to fabricate and install these baffles. Carrier does not provide any warranty or guarantees for these baffles.

MATERIAL OF CONSTRUCTION

1. Recommended Material – 20GA Galvanized Steel, G90U minimum
2. Baffles may be painted. The factory paint color for the RAV Outdoor Units is Silky Shade (Munsell 1Y8.5/0.5)



WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing, modifying, or servicing system, the main electrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.

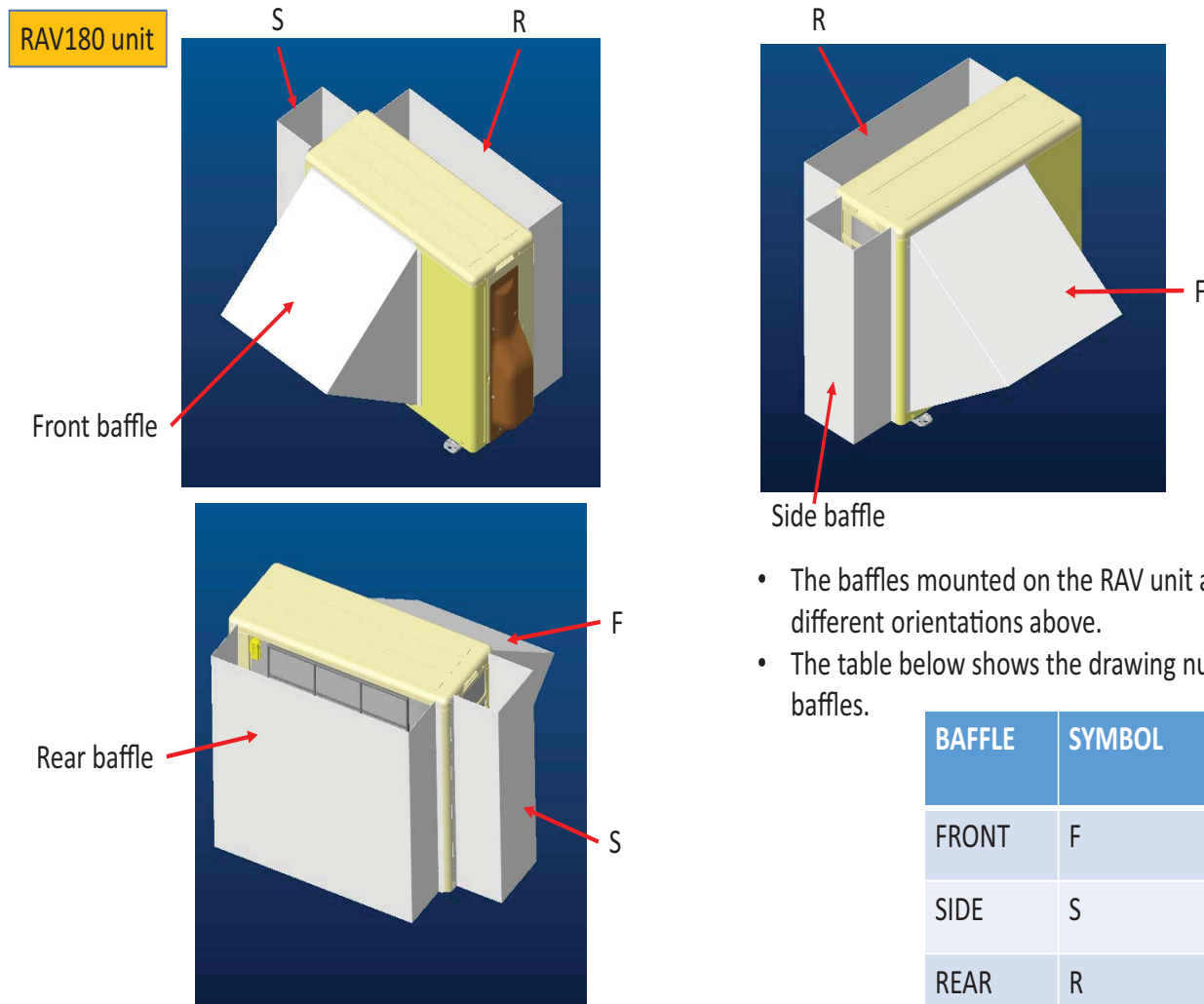
RAV-SP180AT2-UL WIND BAFFLE MOUNTING INSTRUCTIONS MODEL

Refer to Fig. 1 for a diagrammatic representation of the baffles mounted on the unit. Fig. 1 also contains the drawing numbers for the wind baffle pieces; these detailed drawings are located in the appendix.

NOTE:

1. All of the wind baffle pieces will need to have mounting holes added such that the baffle will cover the entire coil.
2. Once these holes have been added, some of the existing screws can be removed from the outdoor unit and reused to hold the wind baffle pieces and the factory panels in place.

3. New screw holes may need to be drilled in the outdoor unit panels to accommodate baffle screw holes that do not align with factory screws.
4. Make sure that new screw holes are drilled such that no internal components are damaged.
5. All of the units can use 1/4 inch standard screws for assembling baffles.



- The baffles mounted on the RAV unit are shown in different orientations above.
- The table below shows the drawing number for the baffles.

BAFFLE	SYMBOL	DRAWING NUMBER
FRONT	F	RAV001_180
SIDE	S	RAV002_180
REAR	R	RAV003_180

Fig. 1 – Diagrammatic Representation of Baffles Mounted on Unit

RAV–SP240AT2–UL WIND BAFFLE MOUNTING INSTRUCTIONS MODEL

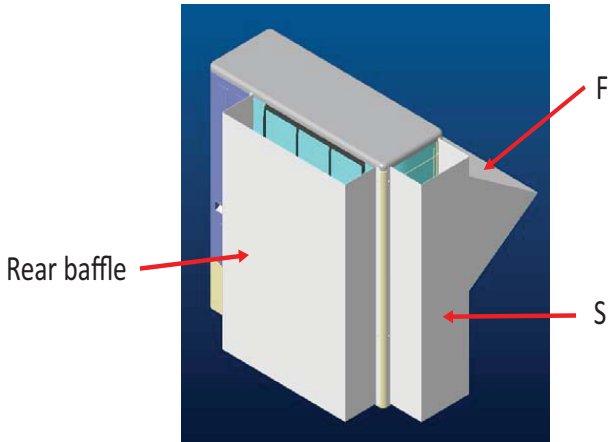
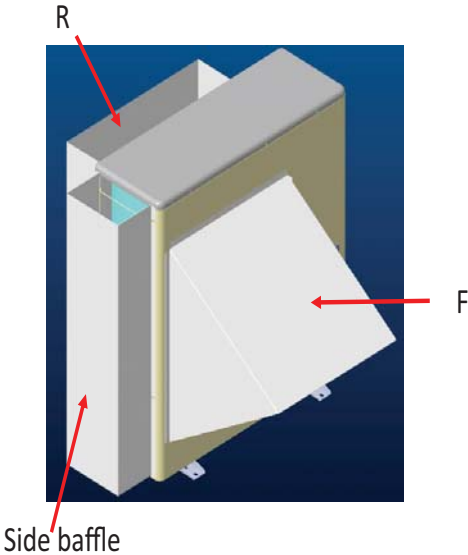
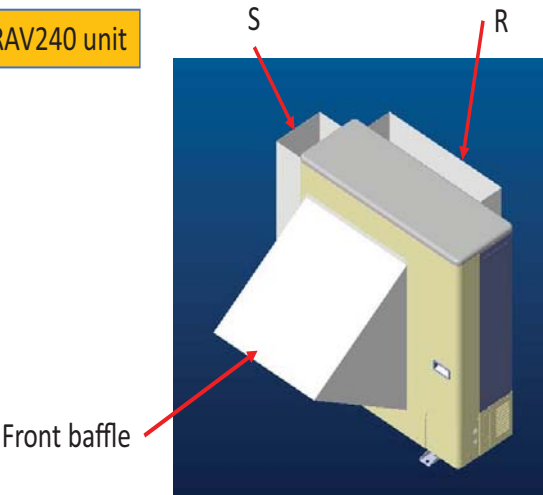
Refer to Fig 2 for a diagrammatic representation of the baffles mounted on the unit. Fig 2 also contains the drawing numbers for the wind baffle pieces; these detailed drawings are located in the appendix.

NOTE:

- 1. All of the wind baffle pieces will need to have mounting holes added such that the baffle will cover the entire coil.
- 2. Once these holes have been added, some of the existing screws can be removed from the outdoor unit and reused to hold the wind baffle pieces and the factory panels in place.
- 3. New screw holes may need to be drilled in the outdoor unit panels to accommodate baffle screw holes that do not align with factory screws.

- 4. Make sure that new screw holes are drilled such that no internal components are damaged.
- 5. All of the units can use ¼ inch standard screws for assembling baffles.
- 6. The fan wind baffle for this unit has mounting flanges on the top and left edges, with a hem (for strength) on the right edge. This hem is intended to fit against the fan discharge panel and not overlap the compressor access panel to the right.

RAV240 unit



- The baffles mounted on the RAV unit are shown in different orientations above.
- The table below shows the drawing number for the baffles.

BAFFLE	SYMBOL	DRAWING NUMBER
FRONT	F	RAV001_240
SIDE	S	RAV002_240
REAR	R	RAV003_240

Fig. 2 – Diagrammatic Representation of Baffles Mounted on Unit

RAV-SP300AT2-UL / RAV-SP360AT2-UL / RAV-SP420AT2-UL WIND BAFFLE MOUNTING INSTRUCTIONS MODEL

Refer to Fig. 3 for a diagrammatic representation of the baffles mounted on the unit. Fig. 3 also contains the drawing numbers for the wind baffle pieces; these detailed drawings are located in the appendix.

NOTE:

1. All of the wind baffle pieces need to have mounting holes added such that the baffle will cover the entire coil.
2. Once these holes have been added, some of the existing screws can be removed from the outdoor unit and reused to hold the wind baffle pieces and the factory panels in place.
3. New screw holes may need to be drilled in the outdoor unit panels to accommodate baffle screw holes that do not align with factory screws.
4. Make sure that new screw holes are drilled such that no internal components are damaged.

5. All of the units can use ¼ inch standard screws for assembling baffles.
6. The fan wind baffle for this unit has mounting flanges on the top and left edges, with a hem (for strength) on the right edge. This hem is intended to fit against the fan discharge panel and not overlap the compressor access panel to the right.
7. The front bottom baffle for this unit (fan side) has a notch to avoid interference with factory handle.
8. The front top baffle for this unit is the same dimension as the front baffle for the RAV-SP240AT2-UL (drawing number RAV001_240).

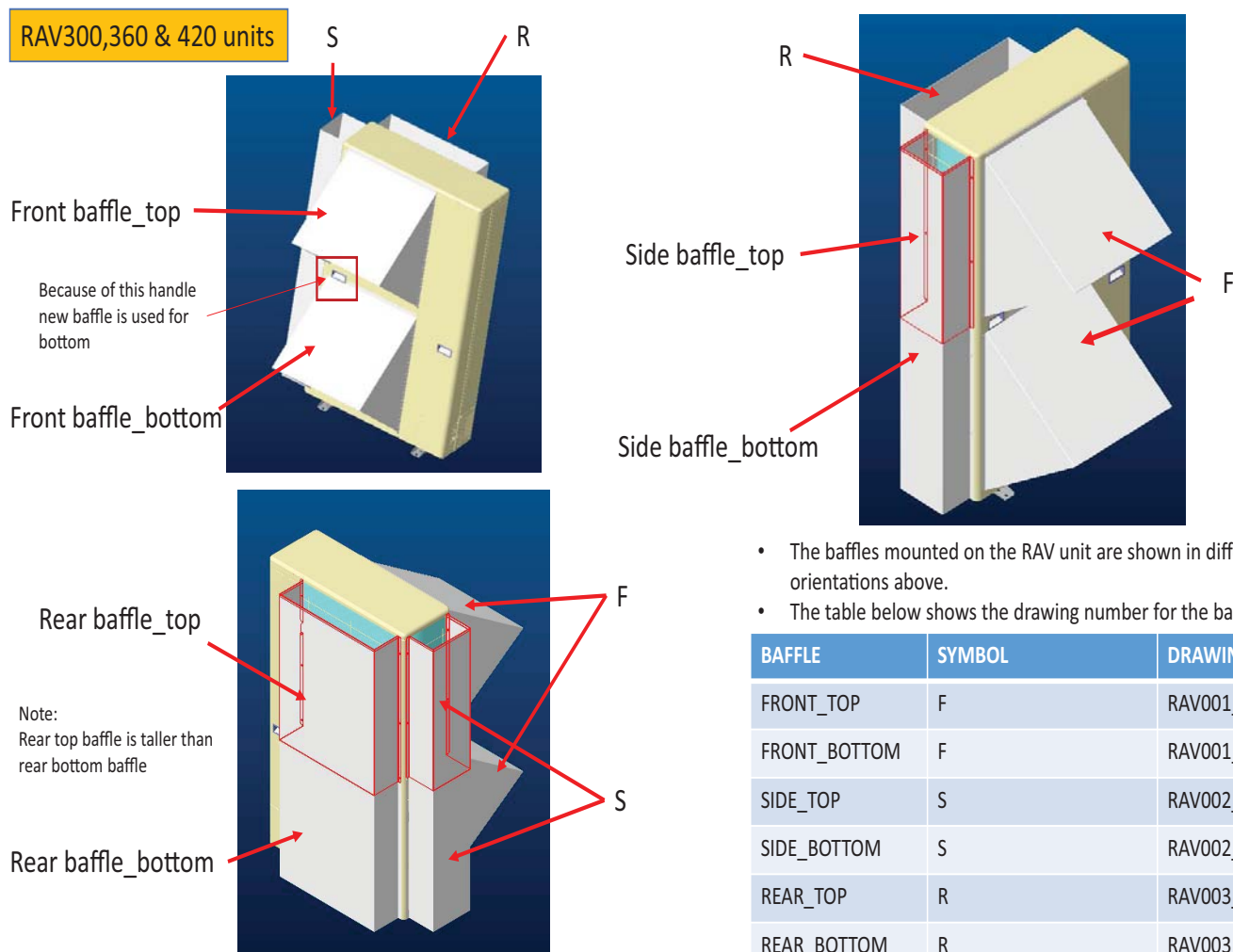


Fig. 3 – Diagrammatic Representation of Baffles Mounted on Unit

APPENDIX
WIND BAFFLE CONSTRUCTION

RAV001_180

NOTE:

1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

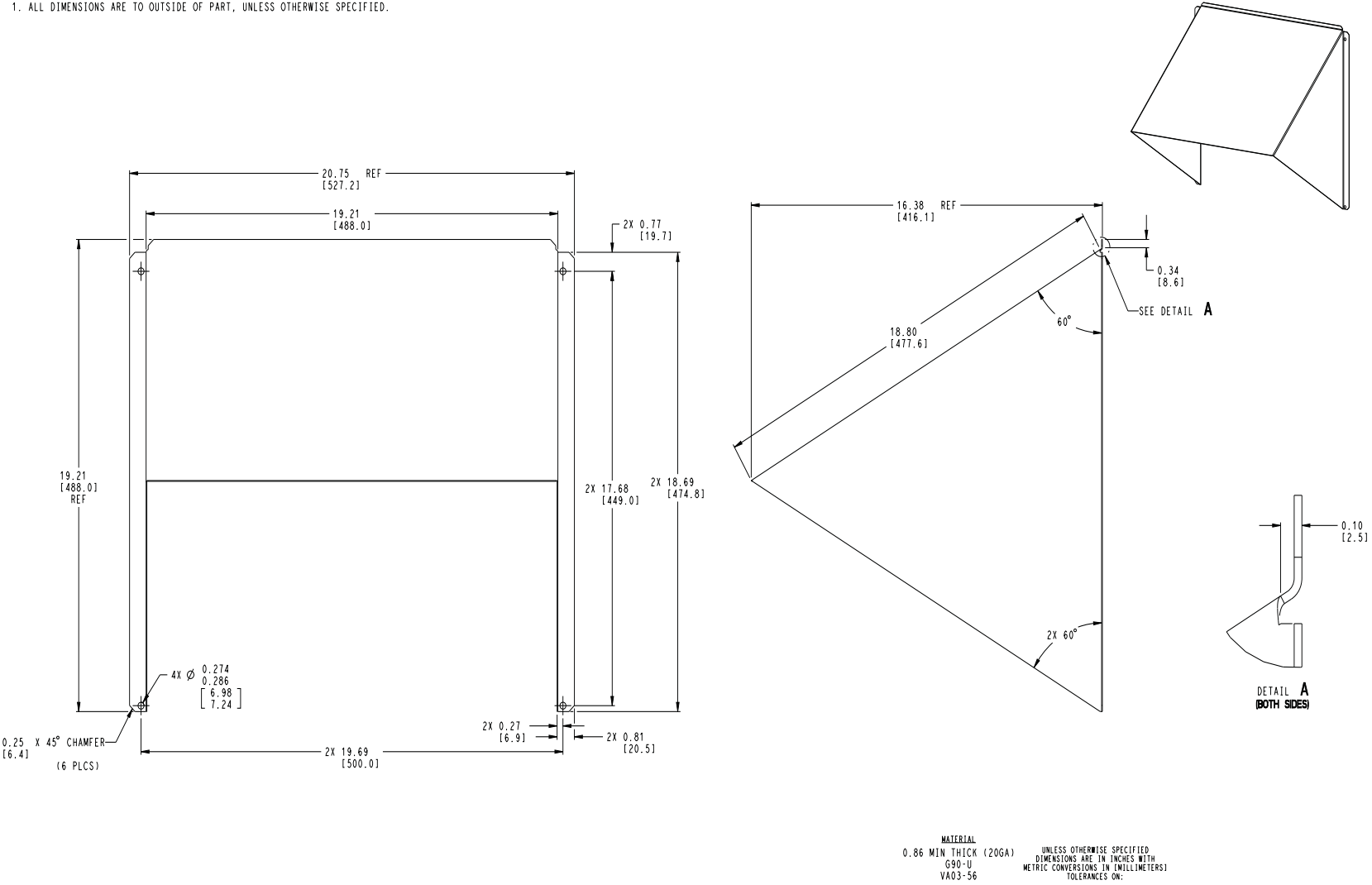


Fig. 4 – RAV001_180

WIND BAFFLE CONSTRUCTION (CONT)
RAV002_180

NOTE:
1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

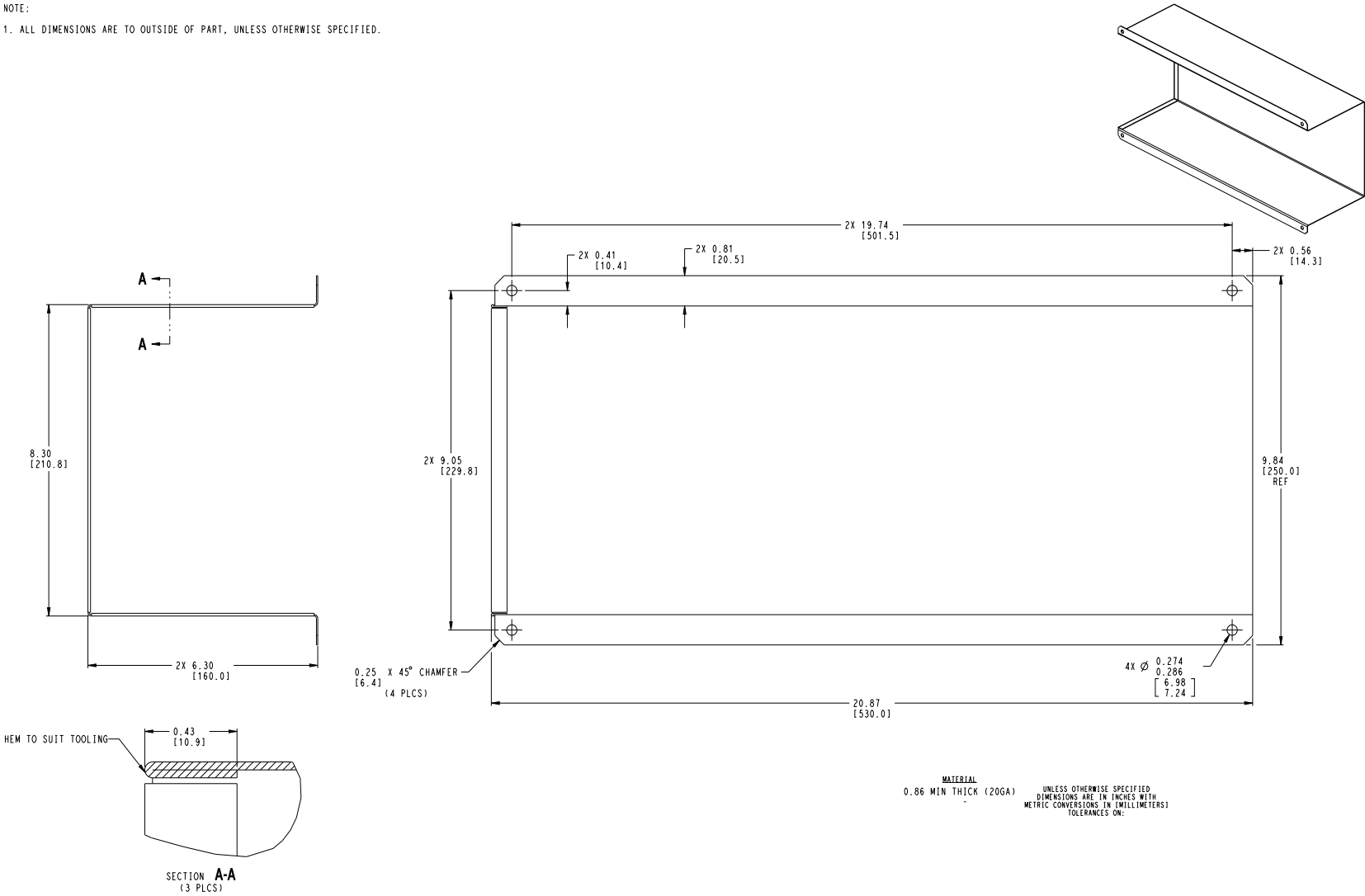
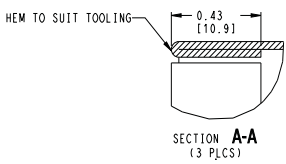
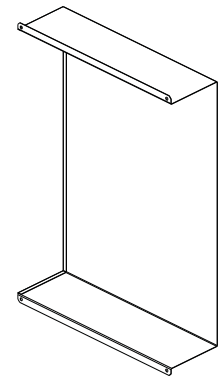
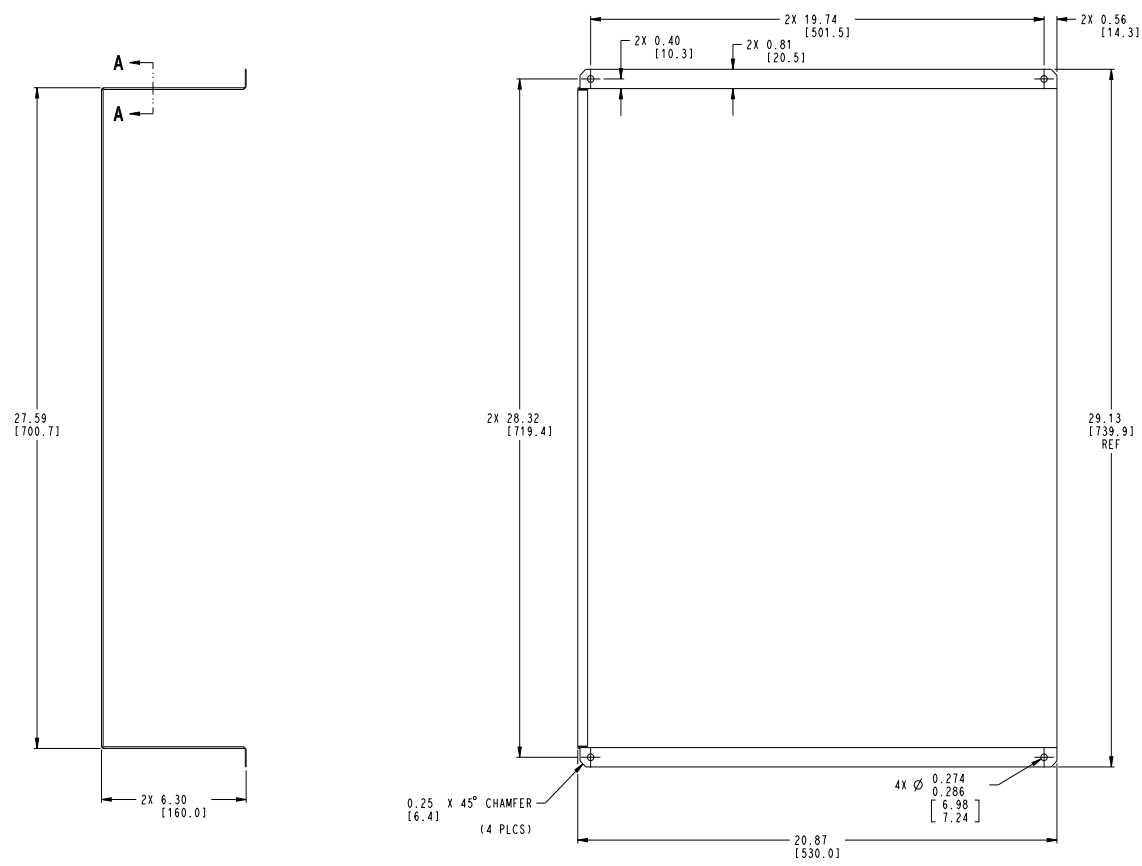


Fig. 5 – RAV002_180

WIND BAFFLE CONSTRUCTION (CONT)
RAV003_180

NOTE:
1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.



MATERIAL
0.86 MIN THICK (20GA)
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES WITH
METRIC CONVERSIONS IN [MILLIMETERS]
TOLERANCES ON:

Fig. 6 – RAV003_180

WIND BAFFLE CONSTRUCTION (CONT)
RAV001_240

NOTE:
1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

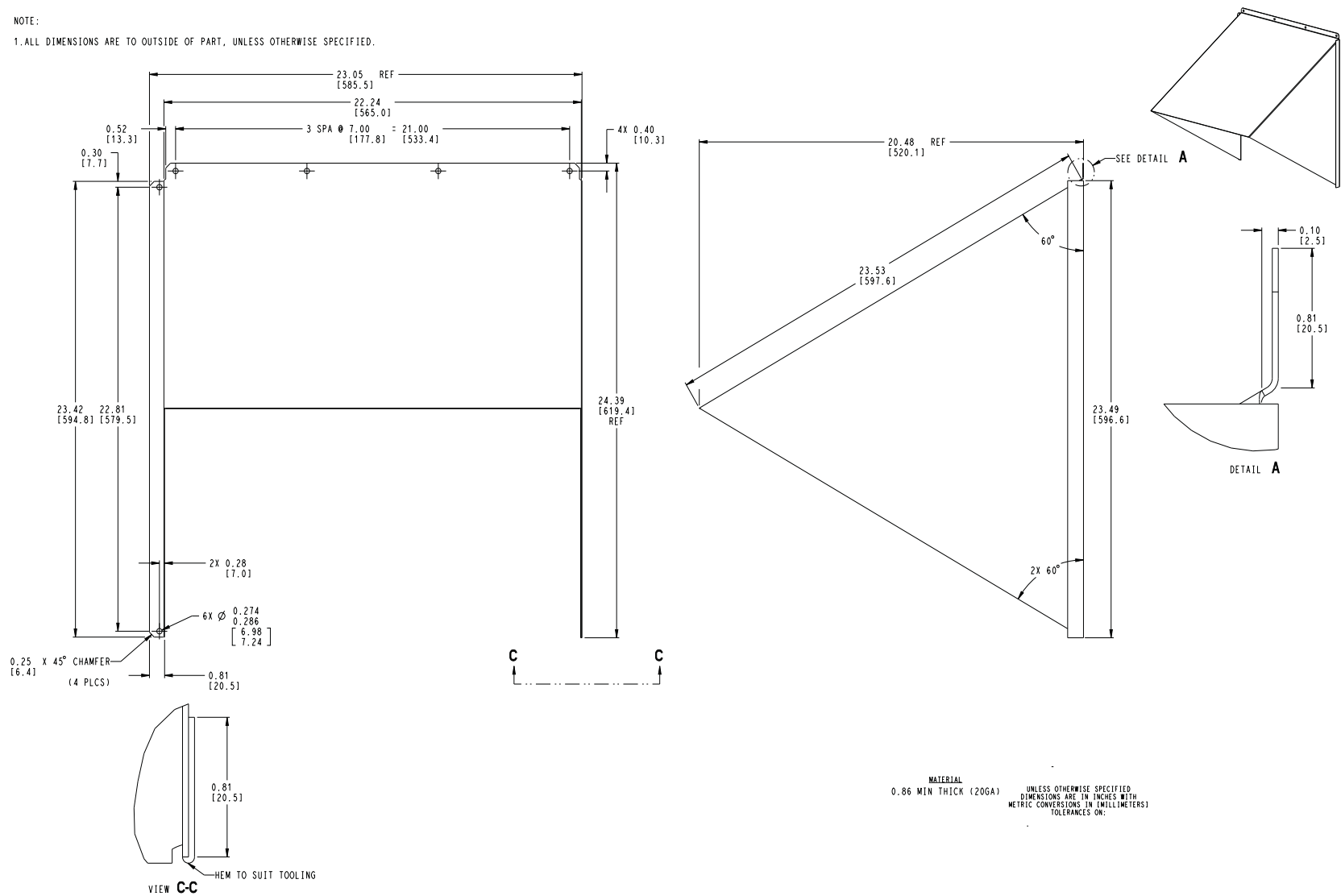


Fig. 7 – RAV001_240

WIND BAFFLE CONSTRUCTION (CONT)
RAV002_240

NOTE:
1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

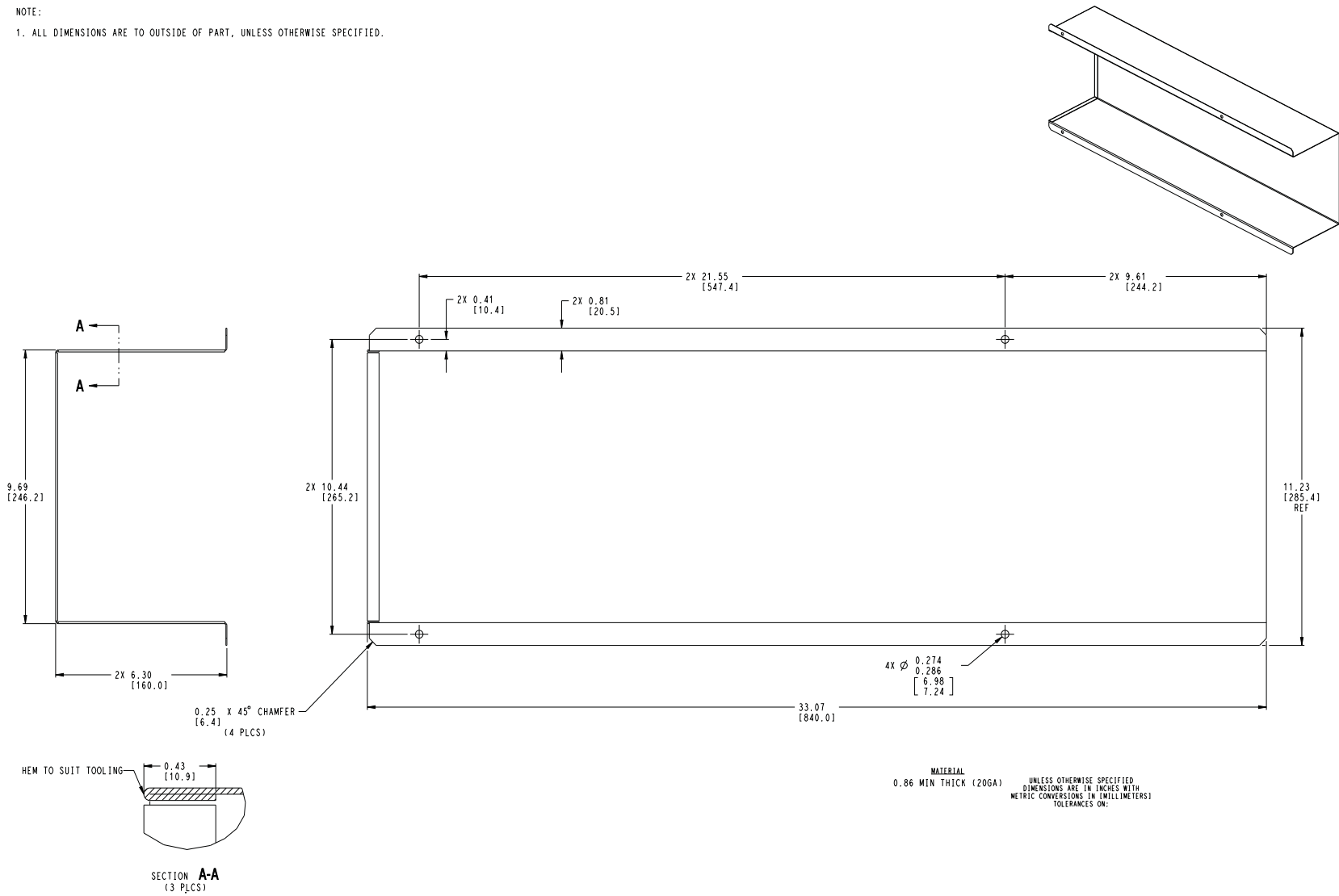


Fig. 8 – RAV002_240

WIND BAFFLE CONSTRUCTION (CONT)
RAV003 240

NOTE:

1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

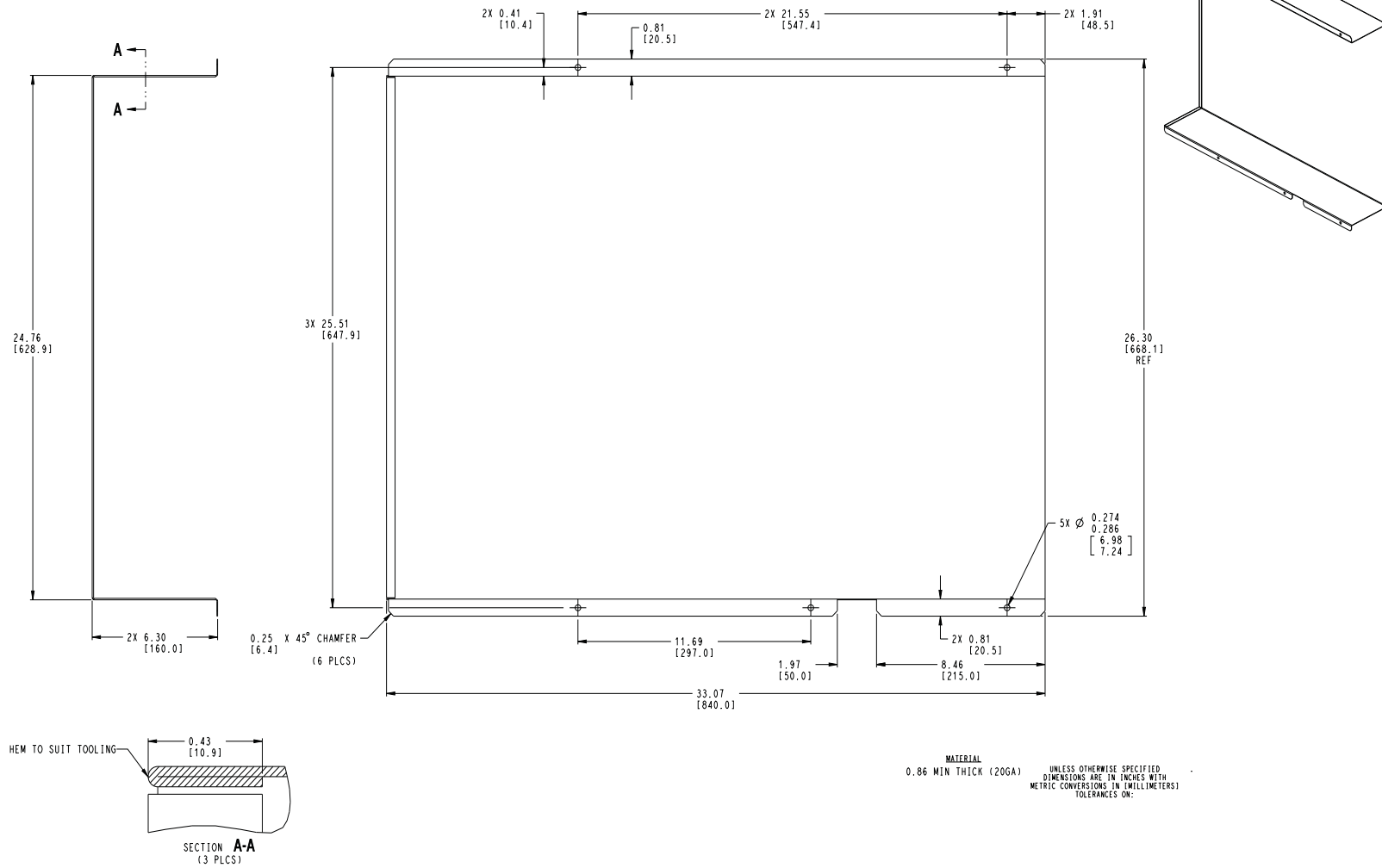


Fig. 9 – RAV003_240

11

1.ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.
2.NOTCH IS PROVIDED TO FACILITATE HANDLE.



WIND BAFFLE CONSTRUCTION (CONT)
RAV002_300-1

NOTE:

1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

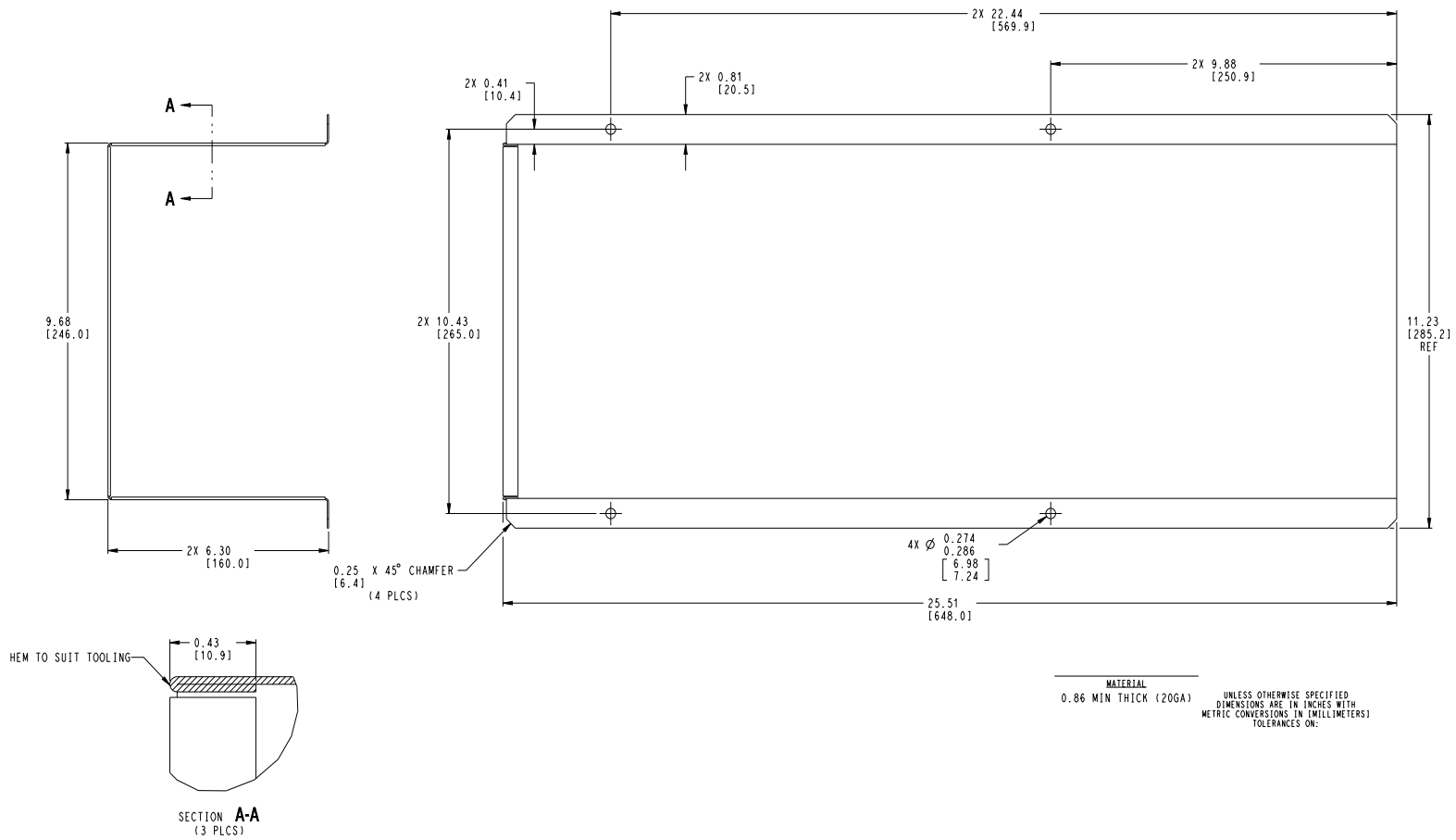
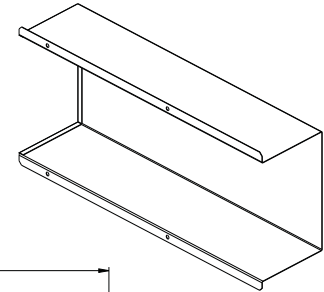


Fig. 11 – RAV002_300_1

13

1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

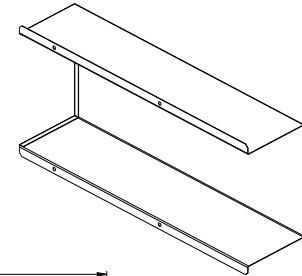
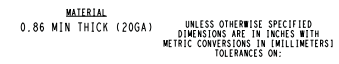
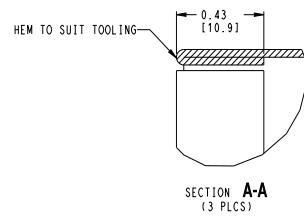


Fig. 12 – RAV002_300_2

WIND BAFFLE CONSTRUCTION (CONT)
RAV003_300-1

NOTE:
1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

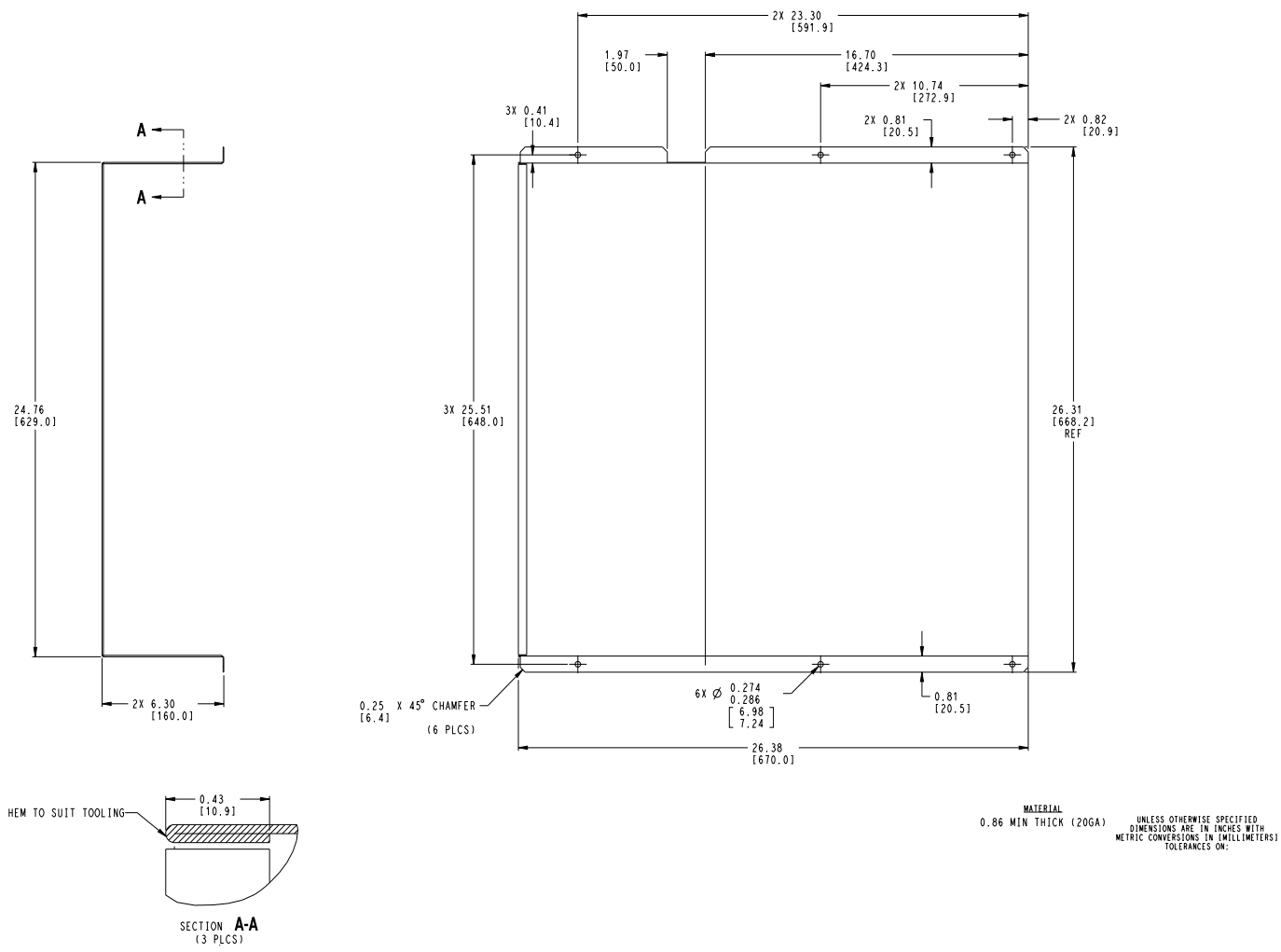


Fig. 13 – RAV003_300_1

WIND BAFFLE CONSTRUCTION (CONT)
RAV003_300-2

NOTE:
1. ALL DIMENSIONS ARE TO OUTSIDE OF PART, UNLESS OTHERWISE SPECIFIED.

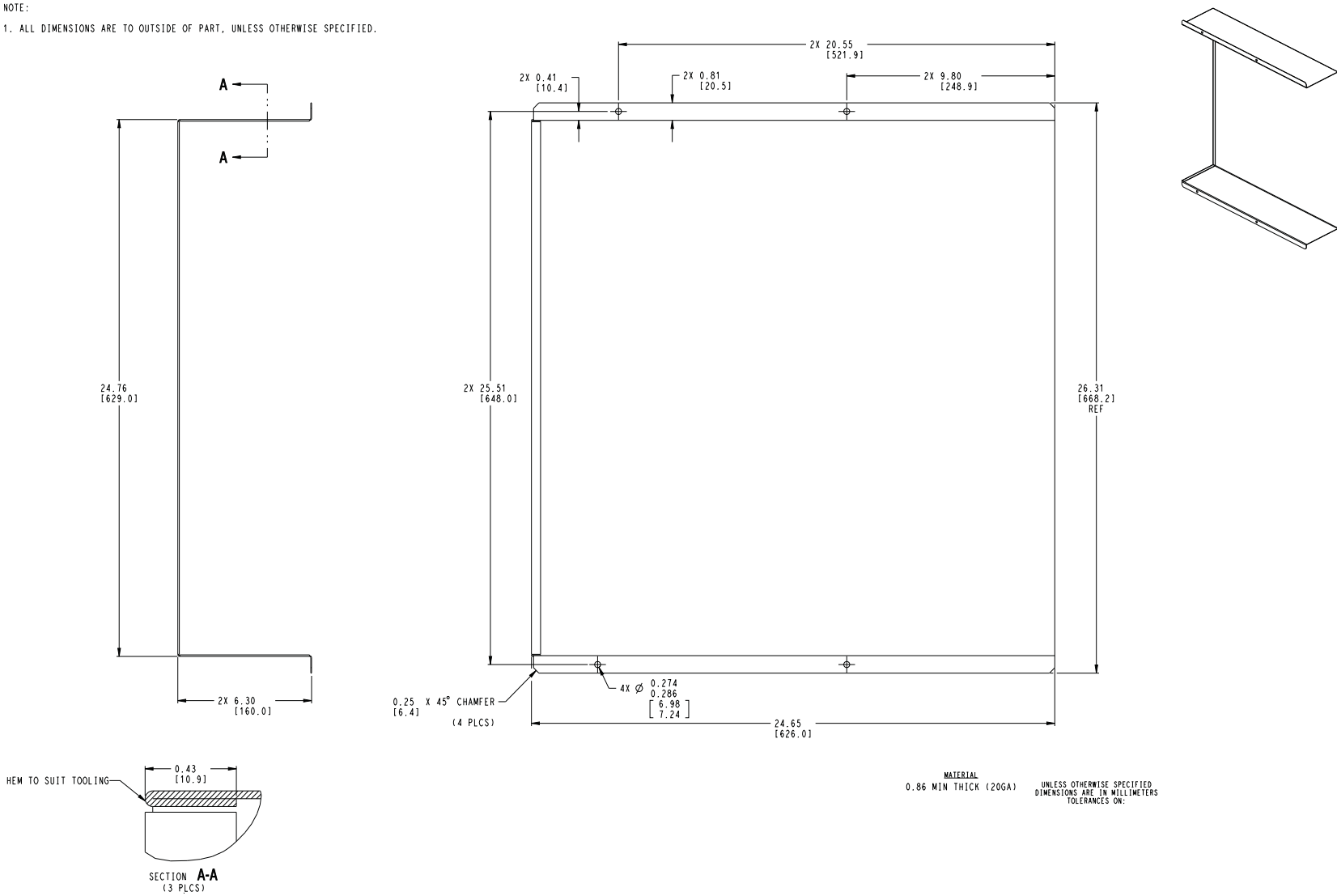


Fig. 14 – RAV003_300_2

