LAYOUT DESIGN GUIDE

CONTEMPORARY DESIGN | SUN | SHADE | RAIN PROTECTION | TEMPERATURE CONTROL

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This guide represents a small sample of the endless possibilities and configurations available. These designs are intended to inspire your creativity for implementation of the RA Opening Roof System. Configurations can be altered, combined and reworked to suit any project. Frames can be created out of steel, wood, aluminum extrusions, rolled aluminum or even vinyl. Structures can be built with or without hashtag booms, attached directly to the house wall(s), or completely freestanding. The RA Opening Roof System can also be used to retrofit existing structures. Anything is possible with the RA Opening Roof System.

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PARALLEL

ATTACHED CANTILEVER DESIGN
Cover attached to building, with transfer beam, down along gable beam.
ATTACHED CANTILEVER DESIGN
Cover attached to building, with header beam, overhang post beam, two RFA days.

ATTACHED CANTILEVER DESIGN
Cover attached to building, with header beam, overhang post beam, three RFA days.
ATTACHED, SIMPLY SUPPORTED, DOUBLE RAFTER DESIGN
Cover attached to building, with double rafters, posts between rafters.
ATTACHED, SIMPLY SUPPORTED, DOUBLE RAFTER DESIGN
Come attached to building with double rafters, purlins between rafters, (two R.A., bays).

ATTACHED, SIMPLY SUPPORTED, SINGLE RAFTER DESIGN
Simply supported over, attaches to building, post closest under rafter.
ATTACHED, SIMPLY SUPPORTED, SINGLE RAFTER DESIGN
Simply supported over, attached to building, pop deadly, and after, two RA bags.

ATTACHED, SIMPLY SUPPORTED, SINGLE RAFTER DESIGN
Simply-supported over, attached to building, and directly over after three RA bags.
PERPENDICULAR

ATTACHED, SIMPLY-SUPPORTED DESIGN WITH INTERMEDIATE RAFTER
Simply-supported cover, attached to building, posts directly under rafters. Two 1/4 lag intermediate posts used for center rafter.
PERPENDICULAR

ATTACHED, SIMPLY-SUPPORTED, DOUBLE RAFTER DESIGN
Cover attached to building, with double rafter posts between rafters.

ATTACHED CANTILEVER DESIGN
Cover attached to building, with header beam, cantilevered from beam, outer supporting rafter supported by fascia.
COMBO

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Attached, Simply Supported, Single Rafter Design
Simply supported cover attached to building, rain directly under rafter.
ATTACHED CANTILEVER DESIGN

Decom attached to building, with header beam, cantilevered posts beams, then F.R.A. bags. The upper F.R.A. bay shares posts with the lower two sections.
FREESTANDING CANTILEVER DESIGN
Freestanding cover, with header beams, or framed post beams.
Freestanding, simply-supported, single rafter design
Freestanding cover with single rafters, posts between rafters.

Freestanding, simply-supported, double rafter design
Freestanding cover with double rafters, posts between rafters.
Two-Wall

Attached design

Rafter are connected directly to wall, no beams or poles.
ATTACHED, SIMPLY SUPPORTED, SINGLE RAFTER DESIGN

Simply supported cover, attached to two walls, posts directly under rafters.
ATTACHED, SIMPLY-SUPPORTED SINGLE RAFTER DESIGN

Simply supported corner, partially supported by building, posts directly under rafter.
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All measurements in this document are metric. To convert from metric (meters, centimeters and millimeters) to imperial (feet and inches) visit this website:
http://www.onlineconversion.com/length_common.htm