PRO LOK ROOF SYSTEM
ARCHITECTURAL DETAILS
# INDEX

## GENERAL DETAILS

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The following Architectural Details provide a graphic description of the Dean Steel Buildings Standing Seam Roof System and its standard applications. Use these details to determine the applications required for your specific project.

These standard application details are based on typical and proven designs utilizing gasket type sealed assemblies to provide more positive weather resistance over a broad range of conditions, including low pitched roofs. It is the project designer’s responsibility to assure that the specified application is appropriate for the roof's intended use.

These details show generic roof structural members, roof insulation and adjacent construction for simplicity of presentation. These details may be modified to accommodate clarification of structural members, roof insulation, trim profile, tie-in to adjacent construction etc.

The basic function of the details, such as roof panel assembly and fit-up to closures and flashing, sealing and attachments etc. cannot be modified. All applications, not in accordance to these details, require approval by the Dean Steel Buildings Customer Service Department.

In case of conflict between these Architectural details and the project’s erection drawings, the erection drawings will take precedence.
Seam Crimped at Clips Only

Note: For Clarity Of Detail, Roof Insulation Is Not Shown

Seam Sealant (factory applied inside seam)

Panel Clip Tab

Panel Clip Base

Panel Clip Fastener

Roof Structural

Sidelap Section
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ROOF PANEL SECTIONS - TRIPLELOK SEAM

Note: For Clarity Of Detail, Roof Insulation Is Not Shown
Note: For Clarity Of Detail, Roof Insulation Is Not Shown

* Determined By Manufacturer.

Alternate Cinch Plate
And Extended Roof
(For Heavy Snow And Ice Areas)

Alternate
Two Part Eave Trim
(To Allow Installation Of Wall Panel After Roof Is In Place)
Note: For Clarity Of Detail, Roof Insulation Is Not Shown.

Eave Support (at every other panel seam)
Lap Fastener

Eave Gutter

Eave Trim

Lap Fastener
Lap Fastener
Roof Fastener

Endlap Sealant And Closure
Eave Plate

1/2" or 1 1/2"

Panel Clip Fastener
Wall Fastener
Wall Closure

Wall Panel
Eave Structural

* Determined By Manufacturer.

CAUTION
Gutter Is Not Recommended For Areas That Experience Snow, Ice, Extreme Rainfall Or Damming Conditions.
Note: For Clarity Of Detail, Roof Insulation Is Not Shown
Note: For Clarity Of Detail, Roof Insulation Is Not Shown

** Varieties With Roof Run Length

\[ \frac{1}{2} '' \text{ or } \frac{3}{4} '' \]

\[ 2.5'' \]

\[ 4'' \text{ (min.)} \]

\[ 1'\,6'' \text{ (max.)} \]

\[ \text{Ridge Flashing} \]

\[ \text{Lap Fastener} \]

\[ \text{End Dam} \]

\[ \text{Endlap Fastener} \]

\[ \text{Back-up Plate} \]

\[ \text{Endlap Fastener} \]

\[ \text{Roof Panel Clip} \]

\[ \text{Endlap Sealant} \]

\[ \text{Endlap Sealant} \]

\[ \text{Roof Structural Panel Clip Fastener} \]

\* Varieties With Roof Pitch
Note: For Clarity Of Detail, Roof Insulation Is Not Shown
Note: For Clarity Of Detail, Roof Insulation Is Not Shown

** Varies With Roof Run Length

3"

5 1/2"

Wall Panel, Reglet Or Counter Flash
Wall Fastener

Lap Fastener
Flashing Sealant
End Dam

Roof Panel

1/2 or 1 1/2"
Roof Panel Clip
Roof Structural Panel Clip Fastener

Transition Flashing
Endlap Fastener
Endlap Sealant
Back-up Plate

2"

4" (min.)
1'-6" (max.)

* Varies With Roof Pitch
Lap Fastener

Rake Trim

Flash Sealant
Panel Clip

Starting Roof Panel

Panel Clip

Roof Structural
Panel Clip Fastener

Panel Clip Fastener

Wall Fastener

Wall Closure

Wall Panel

* Determined By Manufacturer.

Note: For Clarity Of Detail,
Roof Insulation Is Not Shown

Alternate Sliding Rake Trim
(Allows Expansion Movement Of Rake Trim,
Required When Roof Run Exceeds 50')
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24" O.C. Varies

Lap Fastener

Termination Zee

Optional Edge Dam (bend roof panel up to form waterdam)

Rake Trim

Endlap Sealant (above & below rake closure)

Roof Fastener

Rake Plate (slotted to allow expansion movement)

Wall Fastener

Wall Closure

Wall Panel

* Determined By Manufacturer.

Panel Clip

Roof Structural Panel Clip Fastener

Termination Roof Panel

Flashin Sealant

Shoulder Fastener

Rake Angle Wall Fastener

Rake Trim

Alternate Sliding Rake Trim
(Allows Expansion Movement Of Rake Trim Required When Roof Run Exceeds 50')

Rake Trim

Slide Trim Wall Fastener

Wall Panel

Wall Closure

Roof Panel

Termination Zee

Roof Fastener (locate to clear roof structural)

Rake Plate

Alternate Attachment To Full Width Roof Panel

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FINISH RAKE SECTION - RAKE TRIM
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Notes:
1. Detail Shown At Starting Rake, Detail At Finish Rake Is Similar.
2. For Clarity Of Detail, Roof Insulation Is Not Shown.

Alternate
Sliding Transition Flash
(Allows Expansion Movement Of Transition Flash, Required When Roof Run Exceeds 50°)
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Note: For clarity of detail, roof insulation is not shown.

Fixed Roof Panel Attachment
(Typical for roof panel runs less than 50 feet)

* Varies with roof pitch

Sliding Roof Panel Attachment
(Allows expansion movement of roof panel, required when roof panel run exceeds 50 feet)

HIP SECTION
Note: For Clarity Of Detail, Roof Insulation Is Not Shown

* Varies With Roof Pitch

**Valley For Roof Systems**
*With High Panel Clips*

**Valley For Roof Systems**
*With Low Panel Clips*
Note: For Clarity Of Detail, Roof Insulation Is Not Shown

CAUTION
Interior Gutter Must Be Provided With Protection From Corrosion, Icing, Jamming & Interior Condensation

VALLEY GUTTER SECTION
Note. For Clarity Of Detail, Roof Insulation Is Not Shown

Valley Gutter (12 gauge steel, Joints, drops, & end caps welded water tight)

CAUTION
Interior Gutter Must Be Provided With Protection From Corrosion, Icing, Damming & Interior Condensation

Back Panel or Counter Flash
Wall Fastener
Corrugation Closure
Roof Fastener
Cinch Strap
Endlap Sealant
Eave Plate
Panel Clip Fastener
Eave Structural
Partition Wall (when req'd)
Insulation Note
3/8" Standoff is recommended for up to 4" thick insulation. 1 3/8" standoff is recommended for 4" to 6" thick insulation.
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Roof Panel
Roof Panel Clip
Bearing Plate (to support panel clip)
Plywood or OSB Deck
Insulation Facing (vapor barrier)

Rake Plate
Roof Structural
Eave Structural

Panel Clip Fastener

Section At Eave
Section At Roof Structural

Roof Panel
Roof Panel Clip
Panel Clip Fastener
Rake Angle
Roof Structural
Rigid Foam Insulation
Insulation Facing (vapor barrier)
Bearing Plate

Section At Rake

Note
* Rigid Foam Insulation Thickness - 1" To 4".

ROOF SECTIONS - RIGID FOAM INSULATION