

# RCI Spring Conference

June 9, 2014



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



Presented by  
Hamish Matheson  
Technical Assistant, RCABC



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## RCABC TECHNICAL SERVICES

- We respond to calls from: Roof Inspectors, Roof Consultants, Building Owners and their representatives, Architects, Design Authorities, and the General Public.
- RCABC Technical Services
  - a review of roof details, assemblies and specifications
  - a review of inspection reports
  - assistance in interpreting and using the RCABC on-line Roofing Practices Manual (RPM)



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## THE FUTURE OF ROOFS IN BC







ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## THE FUTURE OF ROOFS IN BC





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## THE FUTURE OF ROOFS IN BC







ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## THE FUTURE OF ROOFS IN BC



# RCABC FAQ from inspection firms and architects



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA







ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## FAQ FROM INSPECTION COMMUNITY

- green roofs
- railings
- low doorways
- parapets and curbs
- minimum slope parameters
- sloped to drain recommendations
- accepted materials
- how to find a Contractor
- how to find an Inspector





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



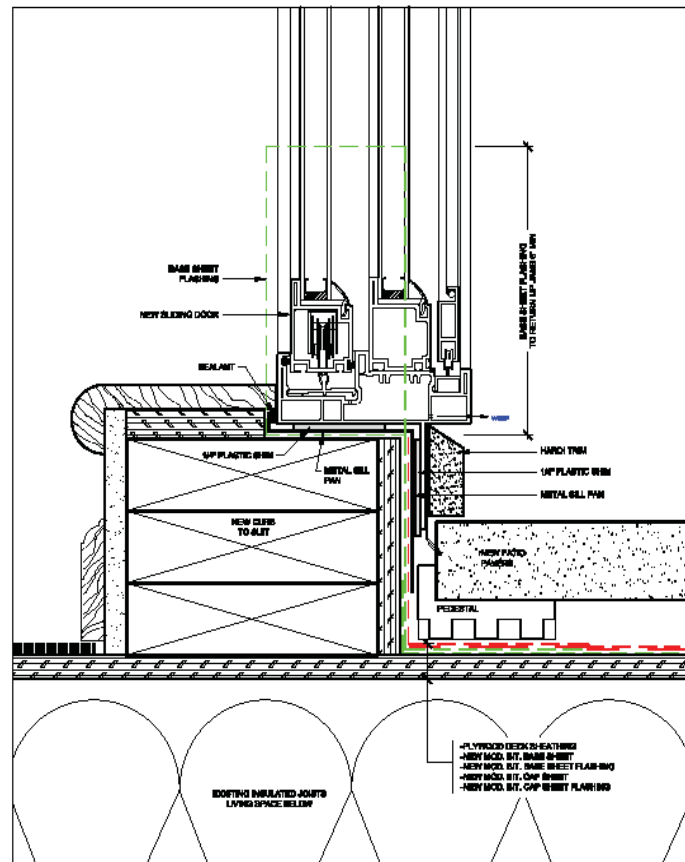
## FOCUS ON FIVE ROOF DETAILS

1. Low doors
2. Parapets and cap flashings and determining  
“finished roof surface”
3. Railings
4. Insulation thickness
5. Overlay boards



# LOW DOORWAYS

## LOW DOORWAY, SECTIONAL VIEW







ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA

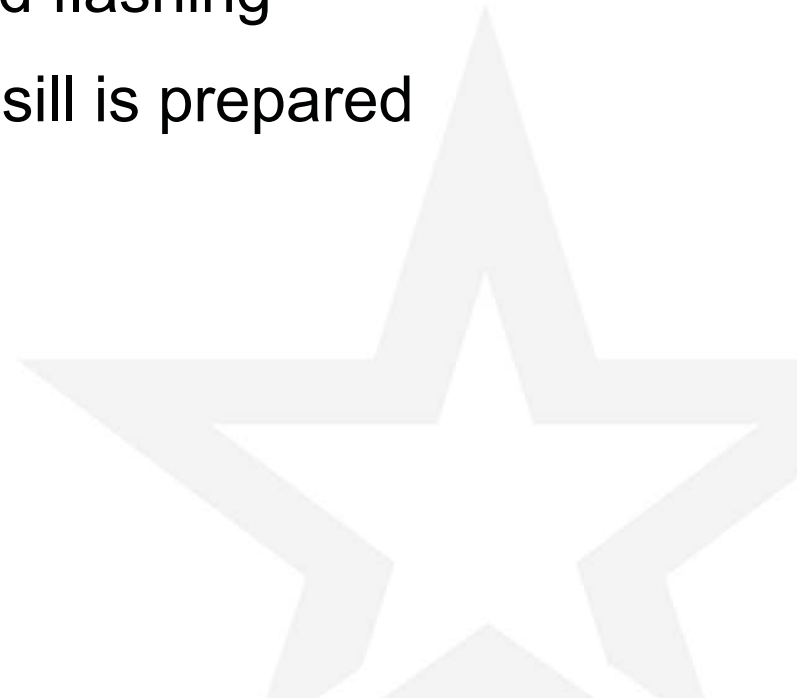


**RoofStar**  
GUARANTEED. BETTER.



## LOW DOORWAYS

- Membrane flashing or metal pan
- RGC accepted reinforced liquid flashing
- Door preferably installed after sill is prepared
- Overflow drains





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## LOW DOORWAYS





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## LOW DOORWAY – EXISTING POSSIBILITIES?



# PARAPETS & CAP FLASHING



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA

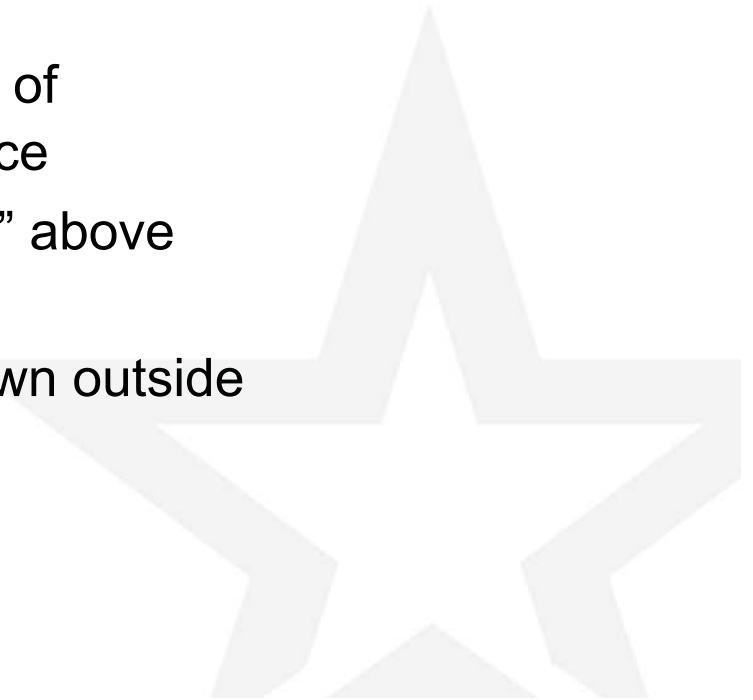


**RoofStar**  
GUARANTEED. BETTER.



## PARAPETS & CAP FLASHING

- Perimeter parapets (with no adjoining walls) are to be 3.5" minimum
- Field curbs are to be 8" minimum
- Rule of thumb - Anything that spills out of building: 3.5" above finished roof surface
- Anything that can spill into building = 8" above finished roof surface
- Membrane to continue up over and down outside face of parapet minimum 2"





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## FINISHED ROOF SURFACE

- Roofing membranes to terminate a minimum of 8" above the finished roof surface.
- Finished roof surface is determined as 8" above the finished surface/overburden.
- Eg. Pavers on pedestals plus 8" from top of pavers, is the finished height the membrane needs to be.

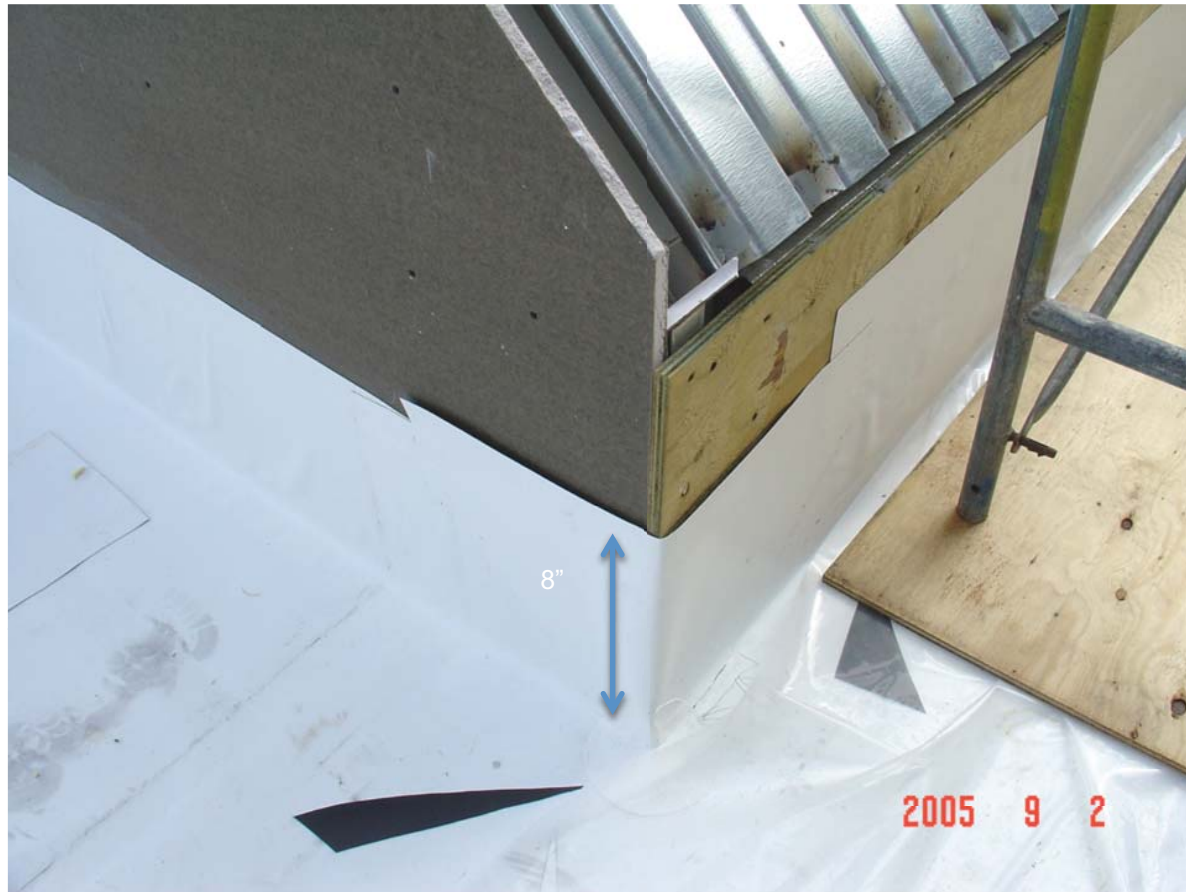




ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



# RAILINGS



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## RAILINGS

- Fastener to roof membrane relationship 3.5" minimum
- Post installation waterproofing of fastening system
- Consideration of how cap flashing will be installed after railing is installed
- Design Authority contact RCABC







ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## RAILINGS





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## RAILINGS



# INSULATION PARAMETERS & OVERLAY BOARDS



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA

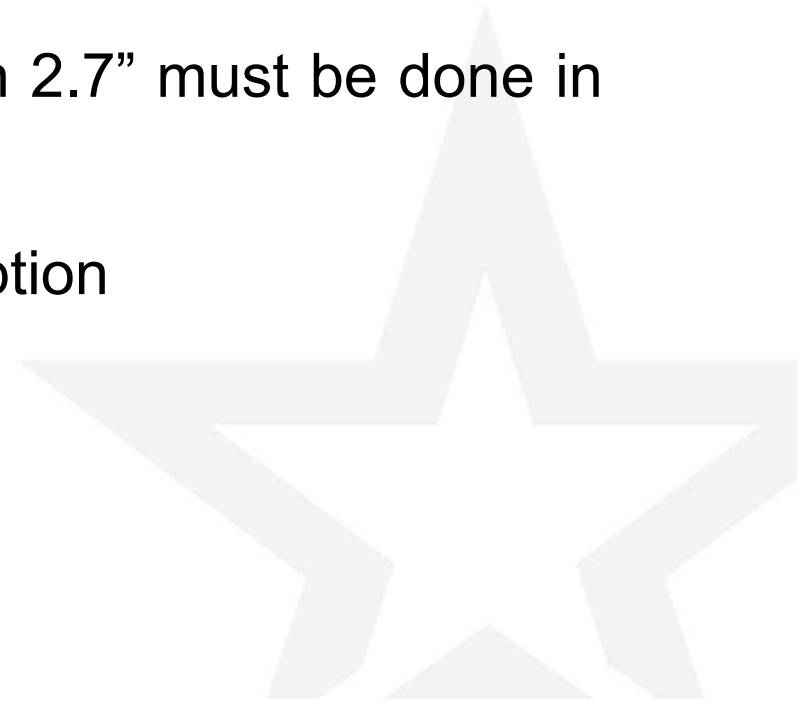


**RoofStar**  
GUARANTEED. BETTER.



## INSULATION PARAMETERS

- 2.7" or 68 mm is the maximum single thickness in one layer assemblies
- Any roof assembly greater than 2.7" must be done in multiple layers
- Ballasted systems are an exception







ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



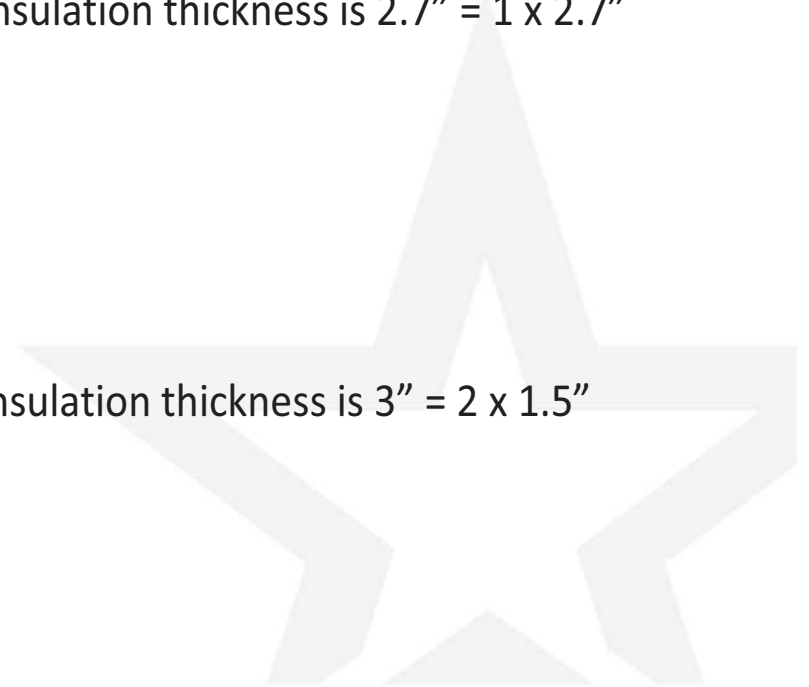
## INSULATION THICKNESS EXAMPLE



Total insulation thickness is 2.7" = 1 x 2.7"



Total insulation thickness is 3" = 2 x 1.5"





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## 2 LAYERS OF 1.5" POLYISO





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## OVERLAY BOARDS

### heat sensitive vs. non heat sensitive insulation

- For EPS & XPS, both are heat sensitive insulations
- RCABC requires 2 layers of minimum 3/16" asphaltic overlay board, offset & staggered, with one layer having taped seams or a minimum #30 non perforated felt beneath one of the two layers; OR
- a single 1/2" thick cover board with joint protection is also acceptable.



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



## 2 LAYERS OF DENS DECK (FLAME TAPE STILL TO BE INSTALLED)







ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.



2 LAYERS OF 3/16<sup>TH</sup> ASPHALTIC BOARD WITH  
#30 FELT FOR FLAME PROTECTION





ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA

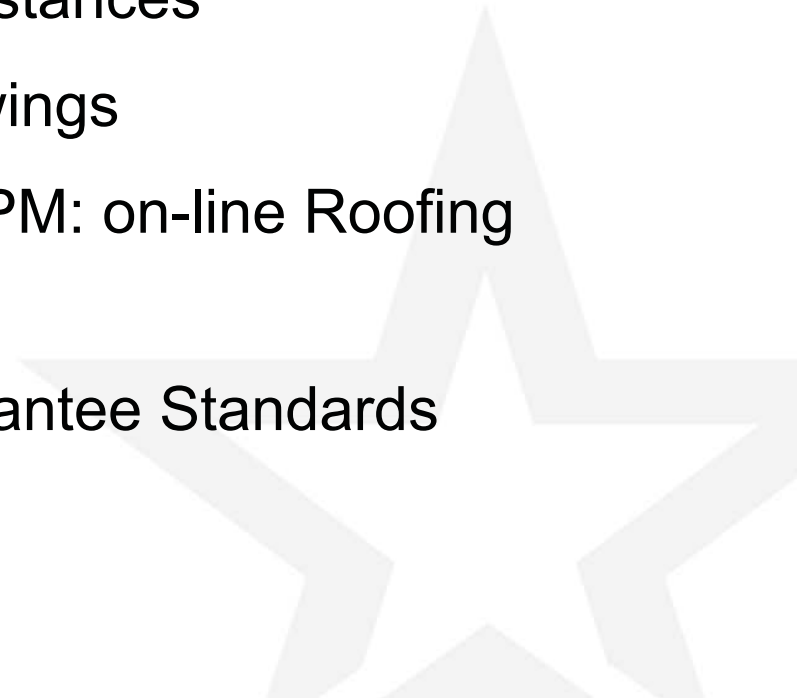


**RoofStar**  
GUARANTEED. BETTER.



## RCABC TECHNICAL RESOURCES

- ✓ Contact the Technical Team: Rob, Hamish for challenging details and/or circumstances
- ✓ Send us your roofing details/drawings
- ✓ Let us help you fully utilize the RPM: on-line Roofing Practices Manual
- ✓ Call us about The RoofStar Guarantee Standards



# RCABC

## Roofing. It's what we do!



ROOFING CONTRACTORS  
ASSOCIATION OF  
BRITISH COLUMBIA



**RoofStar**  
GUARANTEED. BETTER.