



















# **Types of Vents**

## Roof Louvers

- Installed as close to ridge as possible
- Release moisture and overheated air
- Provide continuous airflow along most of the underside of the sheathing



### But....

- The airflow pattern is **not** uniform
- Vents should be space equally along the roof to provide maximum venting effectivness



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Material	Туре	R per Inch	Inches for R-20	Inches for R-38
Spray Foam	Low Density	3.5-3.8	5.0-6.0	10-11
	High Density	6.0-7.0	2.9-3.3	5.4-6.3
Foam Board	Expanded Polystyrene	3.6-4.2	3.5-5.0	
	Extruded Polystyrene	5.0	4.0	
	Polyisocyanurate	5.6-7.6	2.6-3.6	

Air-pe	ermeabl	e insulatio code in C	n to meet ener Z 5	gy
		<i>-im</i> permeable ulation	Air-permeable insulation	
R-38	R-2	20	R-18	
Material	Туре	R per Inch	ch Air-permeable insulation options	
Fiberglass	Std density	3.2	R-19 batt	
	High density	3.8	R-21 batt	
	Blown-in-batt	4.0	4.5"	
Cellulose	Loose fill	3.2-3.8	4.7-5.6"	
	Dense pack	3.0-3.4	5.3-6.0"	
	Spray on	2.9-3.4	5.3-6.2"	
		For Item 5.3		51



# **Summary and Conclusions**

## **Benefits**

- Keeps attic/roof temperatures cool
- Reduces moisture and keeps attic dry
- Protects against damage to materials and the structure
- Help reduce energy consumption
- Provide added comfort

## Types of vents

- Intake & exhaust
- A vent's effectiveness is measured by its Net Free Vent Area (NFVA)



