

Table 1. Refrigerated Warehouse Shell Common Practices

PROPOSED  
OREGON  
VALUES

R-36  
R-36  
R-36  
R-28  
R-28  
NA.  
NA.  
No elec.  
resist.

Attribute	Savings by Design Baseline	Common practice from interviews	ASHRAE Recommendation
Freezer Ceiling	R-46	R-31 to R-50	R-45 to R-50
Freezer Exterior Wall	R-26	R-32 to R-56	R-35 to R-40
Freezer Floor R-value	R-30	R-18 to R-30	R-27 to R-32
Cooler Ceiling	R-23	R-24 to R-40	R-30 to R-35
Cooler Walls	R-20	R-23 to R-40	R-25
Dock Ceiling	R-23	Same as rest of facility	R-30 to R-35
Dock to outdoor wall	R-20	Same as rest of facility	R-25
Underfloor heating	No electric resistance	Heat recovery from condenser to underfloor glycol loop	None

Table 2. Evaporator Common Practices

Attribute	Savings by Design Baseline	Common practice from interviews
Evaporator fan speed control	Constant volume, constant operation	Constant volume, constant operation
Evaporator design approach temperature	10°F	Variable based on humidity requirements
Evaporator fan power (W/CFM)	Not addressed	No opinion