Rain enters cup due to momentum ("kinetic energy")

Cup drains water to exterior
Intent of sealant is to limit this lateral flow of water between sheathing and building wrap.
**Relative Humidity (RH) %**

- **Uncomfortably Dry**: 0 - 20%
- **Comfort Range**: 20 - 65%
- **Uncomfortably Wet**: 65 - 100%

**Target Range**

- Winter
- Summer

---

**Water Vapor Permeance vs. Relative Humidity**

- Dry cup limits
- Wet cup limits

- Dry cup test results
- Wet cup test results

- $\mu_d$ = Dry cup permeance
- $\mu_w$ = Wet cup permeance
Rain Screen
Beer Screen?