$$(\mathbf{f} \circ \mathbf{g}) : \mathbf{A}^{\mathrm{op}} \times \mathbf{C} \to_{\mathbf{Pos}} \mathbf{Bool},$$
 
$$\langle a^*, c \rangle \mapsto \bigvee \mathbf{f}(a^*, b_1) \wedge \mathbf{g}(b_2^*, c).$$

 $b_1 \leq b_2, b_1, b_2 \in \mathbf{B}$