Lemma. Given $\mathbf{f}_1, \mathbf{f}_2, \mathbf{f}_3, \mathbf{f}_4 \in \mathrm{Hom}_{\mathbf{DP}}(\mathbf{A}; \mathbf{B})$ one has:

$$\frac{\mathbf{f}_1 \preceq_{\mathbf{DP}} \mathbf{f}_2 \quad \mathbf{f}_3 \preceq_{\mathbf{DP}} \mathbf{f}_4}{\mathbf{f}_1 \wedge \mathbf{f}_3 \preceq_{\mathbf{DP}} \mathbf{f}_2 \wedge \mathbf{f}_4}$$