Definition (Feasible set of a design problem)**.** We define the *feasible set* $K_{\mathbf{d}}$ of a design problem $\mathbf{d} : F^{\mathrm{op}} \times R \to_{\mathbf{Pos}} \mathbf{Bool}$ as the subset of $F^{\mathrm{op}} \times R$ for which $\mathbf{d}$ is the *indicator function*, that is

$$K_{\mathbf{d}} = \{\langle f^*, r\rangle \in F^{\mathrm{op}} \times R \mid \mathbf{d}(f^*, r) = \top\}.$$