

## **fpf-cap\_functionality\_wrt\_sub<sup>11,40</sup>**

$\forall A:\text{Type}, d_1, d_2, d_3, d_4:\text{EqDecider}(A), B:(A \rightarrow \text{Type}), f, g:\text{fpf}(A; a.B(a)), x:A, z:B(x).$   
 $\text{fpf-sub}(A; a.B(a); d_4; f; g)$   
 $\Rightarrow (\uparrow \text{fpf-dom}(d_3; x; f))$   
 $\Rightarrow (\text{fpf-cap}(f; d_1; x; z) = \text{fpf-cap}(g; d_2; x; z) \in B(x))$