

## Answer

The soundness of the rule follows by mathematical induction from the following observations:

$$\llbracket P \Rightarrow \Box P \rrbracket(\sigma) \equiv (\llbracket P \rrbracket(\sigma_1) \Rightarrow (\forall i \in \mathit{Nat} : \llbracket P \rrbracket(\sigma_{1+i})))$$

$$\llbracket P \Rightarrow P' \rrbracket(\sigma^{+i}) \equiv \llbracket P \rrbracket(\sigma_{1+i}) \Rightarrow \llbracket P' \rrbracket(\sigma_{2+i})$$

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