Inference at $*$
of proof for Lemma int_lower_properties:

$\vdash \forall i{:}\mathbb{Z},\ j{:}\{\ldots i\}.\ j \leq i$
by ProvePropertiesLemma

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_95145_{int_lower_properties}.html