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# TECHNICAL BULLETIN TB230

## ELEVATED TEMPERATURE APPLICATIONS

**Product:** REHAU PEXa Pipe

**Date:** 18 December 2014

REHAU defines Elevated Temperature Applications as those with operating conditions greater than 180°F (82.2°C). When operating conditions are greater than 180°F (82.2°C), the designer must sufficiently consider the thermal and oxidative stability performance of the piping material to ensure the crosslinked polyethylene (PEXa) pipe design will meet the project's service life requirements.

For Elevated Temperature Applications, REHAU advises against the use of a stress reduction design factor that lowers the operating pressure as it may not sufficiently account for thermal or oxidative degradation.

REHAU applies a service life methodology for REHAU PEXa pipes drawn from ASTM F876, CSA B137.5, ISO 9080 and Miner's rule according to DIN 13760 to determine the warranty period. REHAU PEXa pipes should always be operated at or below the REHAU published temperature and pressure ratings.

When the operating conditions are less than or equal to 180°F (82.2°C), then according to the REHAU *PEXa Limited Warranty* the warranty period for REHAU PEXa pipe is 25 years. **When REHAU PEXa pipes are operated in Elevated Temperature Applications, where the operating conditions are greater than 180°F (82.2°C), contact REHAU Engineering to verify your operating conditions comply with the requirements in the REHAU *PEXa Limited Warranty* for a warranty period of 25 years.**

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