Fire testing at RISE Fire Research on Thursday 7 March 2019

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Presentation overview

1. Experimental set-up overview
2. Fire test #1 (without Trelleborg fire protection)
3. Fire test #2 (with Trelleborg fire protection)
4. Comparison of temperature data from fire tests
Experimental set-up: Overview
Experimental set-up: The water tank design

Tank made from 3 mm steel sheeting
Tank holding about 1770 liter of water
Complete experimental set-up before test #1
Complete experimental set-up before test #1
Complete experimental set-up before test #1
Fire test #1 (without Trelleborg fire protection)

Fire after removal of propane burner (2 min)

Double wheel at full fire – single wheel starting

Fire continued for 1 h 15 min before being extinguished

Double wheel nearly exhausted – single wheel at full fire
Fire test #1 (without Trelleborg fire protection)
Some freeze-frame pictures from IR camera
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Some freeze-frame pictures from IR camera
Fire test #2 (with Trelleborg fire protection)
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TC luft

Temperature [°C]

Time [min]

- TC luft under skjerm
- TC luft over skjerm
- Propanbrenner fjernet

FFI
Fire test #2 (with Trelleborg fire protection)
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Comparison of temperature data from fire tests

Fire test #1 (without Trelleborg fire protection)  Fire test #2 (with Trelleborg fire protection)
Comparison of temperature data from fire tests

Fire test #1 (without Trelleborg fire protection)  
Fire test #2 (with Trelleborg fire protection)
Comparison of temperature data from fire tests

Fire test #1 (without Trelleborg fire protection)  Fire test #2 (with Trelleborg fire protection)