

UL's NEW 7TH EDITION STANDARDS FOR SMOKE DETECTORS WILL GO INTO EFFECT MAY 2020.

The changes in this edition standard are major in scope, most notably the addition of three new fire tests:

- Detection of flaming polyurethane foam
- Detection of smoldering polyurethane foam
- Reduction of nuisance alarms from cooking

The Reason for 7th Edition Detectors

- Nuisance alarms from cooking smoke are the leading cause for disconnected smoke detectors.
- UL research led to new test requirements to reduce or eliminate nuisance alarms from cooking smoke.
- Testing also showed that today's furnishing burn differently because of the use of synthetic fabrics and Polyurethane Foam in their construction.
- New UL Flaming and Smoldering Polyurethane Tests were designed to provide early warning from these heretofore difficult to detect fires.
- The new Standards have more than 250 technical updates, which are consolidated into approximately 50 lab tests with Underwriters Laboratories to help smoke alarm manufacturers gauge the effectiveness of their new detector technology.



**268 7th Edition
Smoke Detector Standard
2020**

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Modern Furnishings Require More Advanced Detection



UL's recent research shows that today's room furnishings burned much faster than room furnishings of the past.

Their testing showed that the main differences was the use of synthetic fabrics and Polyurethane Foam in today's furnishings. In general Smoke Detectors built to UL's current standards do a poor job of detecting the smoke given off by burning Polyurethane Foam.

<https://www.youtube.com/watch?v=aDNPhq5ggoE>

Hochiki is releasing a series of detectors both Analog & Conventional which will be listed to 268 7th edition.



**SOE-24V
SMOKE**



**SOE-24H
SMOKE / HEAT**

Substantial changes have been engineered to the detector construction both inside and out. These changes include air flow, smoke chamber size and shape, sensing technology, and firmware algorithm updates. Hochiki is committed to having our new generation of detectors (both analog and conventional) available before the May 2020 deadline.

Hochiki will be announcing 5 new detectors and a beam detector. As a result, the first offerings which comply with the new standard are expected in Q4 of 2019, and the FireNET L@titude will support them immediately.