larson® Composite panels

CERTIFICATES - FULL-SCALE FIRE TEST & CLASSIFICATIONS

ENVIRONMENTAL CERTIFICATE

International →
Environmental label
EPD® Environmental product declaration
-larson® FR

PRODUCT CERTIFICATES WITH INSTALLATION SYSTEM

European Union →
ETA The European technical assessment → **CE** mark
- larson® FR with LCH-1 system **“ETA 14/100"** certificated by instituto Eduardo Torroja (CSIC)

Spain →
DIT PLUS Documento de Idoneidad Técnica
- larson® FR with LCH-1 system **“DIT PLUS 405P/15"** certificated by instituto Eduardo Torroja (CSIC)

Germany →
U MARK certificate
- larson® FR with riveted system **“Z-10.3-808"** certificated by DIBt institute

France →
QB 64-79 (larson® FR)
QB 142-153 (larson® A2)
- larson® FR & **larson® A2** with LCH-1 system **“AVIS TECHNIQUE 2.2-14-1643-V3"** certificated by CSTB institute
- larson® FR & **larson® A2** with riveted system **“AVIS TECHNIQUE 2.2-11-1469-V3"** ccertificated by CSTB institute

PRODUCT CERTIFICATES

European Union →
ETA The European technical assessment → **CE** mark
- larson® A2 “ETA 18/0712" certificated by Eduardo Torroja (CSIC)

United Kingdom →
BBA certificate
- larson® FR “BBA 08/4551" certificared by British Board of Agrément

USA & Canada →
ETL certificate
- larson® FR “SDReport 29779" certificated by INTERTEK

Switzerland →
VKF certificate
- larson® FR “VKF 30224" certificated by Vereinigung Kantonaler Feuerversicherungen
- larson® A2 “VKF 30219" certificated by Vereinigung Kantonaler Feuerversicherungen

Ukraine →
UA.BR certificate
- larson® FR “UA.BR.042,012-20" certificated by LLC Certification center institute

Alucoil®
Grupo Alibérico

FULL-SCALE FIRE TEST & CLASSIFICATIONS

International →
Full-scale fire test
- larson® FR with TOP HAT system. **PASSED** according to BS 8414-2 AS5113 BR 135 LPS 1582

Determination of the gross heat of combustion (calorific value)
- larson® FR. **PASSED** according to ISO 1716 2010

Non-combustibility
- larson® A2. **PASSED** according to ISO 1182

European Union →
Fire classification of construction products and building elements
- larson® FR with riveted system **B-s1, d0** according to EN 13501-1
- larson® A2 with riveted system **A2-s1, d0** according to EN 13501-1

United Kingdom →
Full-scale Fire performance of external cladding systems
- larson® FR with rivete system. **PASSED** according to BS 8414-1
- larson® A2 with cassettes system. **PASSED** according to BS 8414-2

France →
Full-scale fire test LEPIR II
- larson® FR & larson® A2 with cassettes and riveted systems. **PASSED** according to LEPIR II

Ensayo **Reaction to fire tests. Heat release, smoke production and mass loss rate. Part 1:** Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement). **Amendment 1**
- larson® FR. **PASSED** according to ISO 5660-1

Germany →
Fire behaviour of building materials and elements
- larson® FR. **PASSED** according to DIN 4102-1

Italy →
Reaction to fire - Combustible products classification
- larson® FR. **PASSED** according to UNI 9177

Czech Republic →
Fire behaviour
- larson® FR. **PASSED** according to CSN 73 0863

USA & Canada →
Full scale fire test. Standard fire test method for evaluation of fire propagation characteristics o exterior wall assemblies containing combustible components
- larson® FR with EVO system. **PASSED** according to NFPA 285

Standard test method for surface burning characteristics of building materials
- larson® FR. **PASSED** according to ASTM E84-12c

Standard test method for determining ignition temperature of plastics
- larson® FR. **PASSED** according to ASTM D1929

Full scale standard method of fire test of exterior wall assemblies
- larson® FR. **Realizado con éxito** bajo la norma CAN ULC S134 92

Product evaluation larson® FR new system against fire compliance [OK]
- larson® FR. **PASSED** according to CAN ULC S134

Standard method of test for surface burning characteristics of building materials and assemblie
- larson® FR. **PASSED** according to CAN ULC S102-10

Australia & NZ →
Methods for fire tests on building materials, components and structures.
Simultaneous determination of ignitability, flame propagation, heat release and smoke release and products using an oxygen consumption calorimeter
- larson® FR. **PASSED** according to AS NZS 1530.3 1999

Identification larson® FR core by ash content and XRD
- larson® FR. **PASSED** according to ASTM D5360-13

Corner room test
- larson® FR. **PASSED "Group 1" & "Group 2"** according to ISO 9705

Non-combustibility
- larson® A2. **PASSED** according to ISO 1182 AS 1530.1