

BUILDING MATERIALS

RESEARCH & DEVELOPMENT, TESTING, EVALUATION, EXPERTISE

CTT Group conducts technical services, from performance and characterization analysis for testing and certification purposes including R & D, through to advanced prototyping for new applications. We also provide expert scientific and technical advice for our clients.



■ ROOFING MATERIALS

Specifications & evaluations

- PVC roofing
CAN/CGSB 37.54, ASTM D4434
- Elastomeric roofing
CAN/CGSB 37.58, CAN/CGSB 37-GP-52M
- Roof shingles
ASTM C1185, D3462
- Bituminous membranes
CAN/CGSB 37-GP-56M, CSA A123.23, EN 12311-1, ASTM D146/146M, D1970, D4073, D4798, D5147, D6162, D6163
- Roof underlayment
CSA A220.1, ICC-ES AC188, ICC-ES AC207, ICC-ES AC48, ASTM D4869

■ DRAINAGE & DAMPPROOFING

- Drainage
CCMC 07 11 19.01, ICC-ES AC243, BNQ 3624-110, CSA B1800
- Dampproofing
CCMC 33.46 23.01, ICC-ES AC114, ICC-ES AC29
- Hydraulics
ASTM D4491, D5385, D5101, D4716, CAN/CGSB 148.1-4

- Durability
ASTM D3045, D5721, D4355, D5322, G154, G155, E154
- Mechanical resistance
ASTM D4595, D5321, D6364, D7003, D7179, D7361
- Physical
ASTM D792, D5199, D5261, D5947

■ AIR & VAPOUR BARRIERS

- Specifications
ASTM E1745, CAN/CGSB-37.50, CAN/CGSB-51.33, CAN/CGSB-51.34, ICC-ES AC38, ICC-ES AC148
- Permeance and WVTR
ASTM E96, F1249, D3985, D1434
- Durability
ASTM D3895, G155, G154
- Mechanical resistance
ASTM D638, D751, D882, D1004, D4533, D5035, D4226, D1709, D1790
- Physical properties
ASTM D5199, D5947, D1593, D792, D1238

■ INSULATING MATERIALS

- Specifications and evaluations
CAN/ULC S704, CAN/ULC S706.1, ASTM D3574, D3575, CCMC 07 25 10.06
- Durability
ASTM C1258, D2126
- Thermal resistance
ASTM C518, ISO 11092, GCTTG 4005
- Mechanical resistance
ASTM C203, D1621, D1623
- Physical properties
ISO 1923, ASTM D2842, D374

■ ADHESIVES & SEALANTS

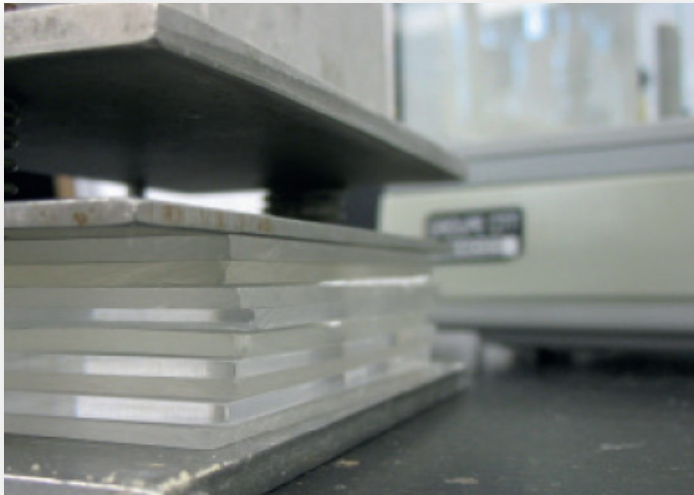
Specifications & testing

- Self adhering flashing
AAMA 711
- Sealants and paints
AAMA 800
- Pressure sensitive tapes
ASTM D3330, PSTC 5, PSTC 101, PSTC 105
- Coatings
ASTM D4541, D3359

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■ FLOOR COVERINGS

- Specifications
NALFA LF 03, NALFA UL 01,
ASTM F1066, F1303, F1700, F1913
- Durability and wear resistance
ASTM C1378, F1015, F1514, F1515, F1914,
EN 13744
- Mechanical resistance
ASTM C1028, D418, D3936, E661, F970,
EN 12228
- Fire resistance
ASTM E648, E662, E1354, NFPA 253
- Physical properties
ASTM D5793, D5823, D5848, F150

■ OTHER BUILDING MATERIALS

- Decks boards
ICC-ES AC309
- Swimming pool linings
ICC-ES AC279
- Fiberboards
ASTM D4521
- Gypsum Panels
ASTM C473

■ ADVANCED ANALYSIS

- UV Resistance
ASTM G154, G155, D4355, D4798, D7238
- Heat aging
ASTM C1258, D2126, D3045, D5721
- Stress cracking
ASTM D1693, D5397, F2136,
SAGEOS GD-001
- Soil burial
ASTM E154, G160
- Low-temperature brittleness
ASTM D746, D1790, D2136
- Thermal expansion and dimensional
stability
ASTM D696, E831, D1204
- Flammability
ASTM E648, D2859, D4804, UL 94, C1166,
E162, E662, E1354
- Chemical, composition and toxicity
ASTM D2124, TGA, DSC, FTIR, LC-MS,
GC-MS