

Technical Evaluation Report™ - Canada

Conformity Assessment by an Approved Certification Agency

Report No: 2509-110



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Nu-Ceil™ Temporary Ceiling Containment System - Canada

Trade Secret Report Holder:

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CSI Designations:

DIVISION: 09 00 00 - FINISHES

Section: 09 50 00 - Ceilings

Section: 09 54 00 - Specialty Ceilings

1 Innovative Product Evaluated¹

1.1 Nu-Ceil™ Temporary Ceiling Containment System

2 Product Description and Materials

2.1 The innovative product evaluated in this report is shown in **Figure 1**.



Figure 1. Nu-Ceil™ Temporary Ceiling Containment System



- 2.2 Nu-Ceil™ Temporary Ceiling Containment System is a temporary suspended ceiling used as a dirt, dust, and debris containment system when a facility is undergoing a re-roofing or other construction projects.
- 2.2.1 Nu-Ceil™ Temporary Ceiling Containment System is a proprietary and patent-pending polyethylene-based film with fire-retardant and Biosustainable™ properties extruded into a film, then cut to size, in line, and packaged.
- 2.2.2 Nu-Ceil™ Temporary Ceiling Containment System film will not block the activation of NFPA 13 fire suppression sprinklers above the temporary Nu-Ceil™ Temporary Ceiling Containment System installation, as the film will melt out prior to the activation time of standard NFPA 13 approved sprinkler heads.
- 2.3 Physical properties of Nu-Ceil™ Temporary Ceiling Containment System are provided in **Table 1**.

Table 1. Nu-Ceil™ Temporary Ceiling Containment System Product Specifications

Property		Nominal
Thickness	[mil]	3
Density	g/m ² [oz/yd ²]	72 [2.12]
Tensile Strength: Machine	MPa [psi]	14.5 [2100]
Tensile Strength: Transverse	MPa [psi]	15.5 [2250]
Light Transmittance	[%]	78
Melt Index	(190°C/2.16 kg)	2.0g/10min
Peak Melting Temperature	°C [°F]	124 [255]
TMA Inflection Temperature (ASTM E831)	°C [°F]	68 [154]
SI: 1 in = 25.4 mm, 1 lb = 4.45 N, 1 lb/ft = 0.0146 kN/m, 1 psf = 0.0479 kN/m ² , 1 psi = 0.00689 MPa, 1 mph = 1.61 km/h, 1 F-ft ² -h/Btu = 0.1761 K-m ² /W		

- 2.4 As needed, review material properties for design in **Section 4** and the regulatory evaluation in **Section 5**.

3 Applicable Codes and Standards²

3.1 Codes

- 3.1.1 NBC—15, 20, 25: National Building Code of Canada
- 3.1.2 NECB—17, 20, 25: National Energy Code of Canada for Buildings
- 3.1.3 O Reg. 163/24: Ontario Building Code (Ontario Building Code or OBC)³

3.2 Standards and Referenced Documents

- 3.2.1 ASTM D3418: Standard Test for Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry
- 3.2.2 ASTM E119: Standard Test Methods for Fire Tests of Building Construction and Materials
- 3.2.3 ASTM E831: Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis
- 3.2.4 CAN/ULC S101: Standard Methods of Fire Endurance Tests of Building Construction Materials
- 3.2.5 CAN/ULC S102.2: Surface Burning Characteristics of Building Materials



- 3.2.6 NFPA 13: Standard for the Installation of Sprinkler Systems
- 3.2.7 NFPA 701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films
- 3.2.8 UL 723: Test for Surface Burning Characteristics of Building Materials

4 Tabulated Properties Generated from Nationally Recognized Standards

4.1 Surface Burning Performance

- 4.1.1 Nu-Ceil™ Temporary Ceiling Containment System was evaluated for its surface burning characteristics in accordance with UL723, tested by Southwest Research Institute (SwRI) under project numbers 01.27684.02.045a and 01.27684.02.045b (Material IDs Nu-Ceil 1.08-0.05 and Nu-Ceil 1.08-0.10; test date September 6, 2023; report date October 13, 2023; technical specialist Marina A. Gonzalez; approved by Matthew S. Blais, Ph.D., Director, Material Flammability Section, Fire Technology Department).

Table 2. Surface Burning Characteristics¹

Product	Flame Spread Rating	Smoke Developed Classification
Nu-Ceil™ Temporary Ceiling Containment System	< 25	< 450
1. When tested in accordance with CAN ULC S102.2		

- 4.1.2 Nu-Ceil™ Temporary Ceiling Containment System was evaluated for flame propagation in accordance with NFPA 701, Method 1, as tested by SwRI under project numbers 01.27687.01.334a and 01.27687.01.334b (Material IDs Nu-Ceil 1.08-0.05 and Nu-Ceil 1.08-0.10; test date September 7, 2023; report date October 13, 2023; technical specialist Marina A. Gonzalez; approved by Matthew S. Blais, Ph.D.) as shown in **Table 3**.

Table 3. NFPA 701 Flame Propagation of Film Characteristics of Nu-Ceil™ Temporary Ceiling Containment System

Product	Mass Loss %	Standard Deviation	Burning on Floor(s)
Nu-Ceil™ Temporary Ceiling Containment System	1.32%	Pass	Pass
Standard Regulation Requirements	≤ 40%	<3	≤ 2 s

4.2 NFPA 13 Sprinkler Activation

4.2.1 Nu-Ceil™ Temporary Ceiling Containment System was tested to determine the Thermomechanical Analysis Temperature (TMA)⁴ inflection temperature and melting temperatures as shown in **Table 4**.

4.2.1.1 The TMA inflection temperature is the temperature at which the film would start to lose mechanical properties, collapse, and break away from the ceiling, allowing the sprinklers to run unimpeded.

Table 4. Melting/TMA Inflection Temperatures used for Breakaway Characteristics of Nu-Ceil™ Temporary Ceiling Containment System

Product	TMA Inflection Temp (°C)	Peak Melting Temp (°C)	Sprinkler Head Activation Range (°C) ²
Nu-Ceil™ Temporary Ceiling Containment System	68	124	79 - 107 ¹
1. Based on the NFPA website as shown here: https://www.nfpa.org/news-blogs-and-articles/blogs/2021/06/22/the-basics-of-sprinkler-thermal-characteristics. 2. Ordinary-temperature sprinkler heads have nominal activation ratings in the 57 to 77 °C range. The Nu-Ceil™ system TMA Inflection Temperature (Element New Berlin Report No. ENB036348P, per ASTM E831) of 67.7 °C is within the nominal rating range of ordinary-temperature sprinklers. The operative comparison, however, is not the static nominal rating; it is the dynamic thermal response in a fire event. Based on the ASTM E119 and CAN/ULC S101 time-temperature curve referenced in Section 4.2.2, the ceiling temperature exceeds 126 °C within 60 seconds of fire onset. The mid-scale test reported in Section 4.2.3 confirms the Nu-Ceil™ film melts and falls away within 50 seconds of fire exposure, which is faster than the thermal response and activation cycle of either ordinary-temperature or intermediate-temperature NFPA 13 sprinkler heads.			

4.2.2 Based on the time-temperature curve of ASTM E119 and CAN/ULC S101, the temperature of the ceiling is expected to reach above 127°C before 60 seconds in a fire event. As such, the Nu-Ceil™ Temporary Ceiling Containment System will have melted away, prior to the time delay and activation of a standard sprinkler activation, as is corroborated by the ASTM E119 / CAN/ULC S101 time-temperature curve testing conducted and the Nu-Ceil™ Temporary Ceiling Containment System melting temperature.

4.2.3 A mid-scale test was conducted on the Nu-Ceil™ Temporary Ceiling Containment System to determine how quickly the Nu-Ceil™ system will melt away in a fire event. It was found that within the first 50 seconds of testing the Nu-Ceil™ system had already melted away.

4.3 Alternative solutions shall be permitted where they achieve at least the minimum level of performance required by the applicable acceptable solutions of NBC Division B in the areas defined by the attributed objectives and functional statements, in accordance with accepted engineering practice and experience.

4.3.1 These provisions for the use of alternative materials, designs, and methods of construction are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed herein. This includes, but is not limited to, the following areas of engineering: mechanics of materials, structures, building science, and fire science.

5 Regulatory Evaluation and Accepted Engineering Practice

5.1 Any building code, regulation and/or accepted engineering evaluations (i.e., research reports, duly authenticated reports, conformity assessments by approved certification agencies etc.) that are conducted for this report were performed by DrJ, which is an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP or approved sources. DrJ is qualified⁵ to practise product and regulatory compliance services within its scope of accreditation and engineering expertise,⁶ respectively.

5.2 Testing and related engineering evaluations are defined as intellectual property and/or trade secrets.⁷

5.3 Engineering evaluations are conducted with DrJ's ANAB accredited ICS code scope of expertise that is also its areas of professional engineering competence.⁸



6 Installation

- 6.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this report, and the applicable building code.
- 6.2 In the event of a conflict between the manufacturer installation instructions and this report, contact the manufacturer for counsel on the proper installation method.

7 Substantiating Data

- 7.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:
 - 7.1.1 Surface burning characteristics testing in accordance with UL 723 (SwRI Project Numbers 01.27684.02.045a and 01.27684.02.045b, report date October 13, 2023)
 - 7.1.2 Flame propagation testing in accordance with NFPA 701, Method 1 (SwRI Project Numbers 01.27687.01.334a and 01.27687.01.334b, report date October 13, 2023)
 - 7.1.3 Melting and TMA inflection temperatures tested for thermomechanical analysis of properties
 - 7.1.4 Using Nusens proprietary technology and intellectual property, the June 25, 2019 Intertek report number, 1039442659COQ-001, stated that reaction of film to standard fire event with time-temperature curve in accordance with ASTM E119/CAN/ULC S101, was as follows:

SECTION 5 TEST OBSERVATIONS

Time	Observations
0:00	Start of Test.
0:10	LDPE Film melted away.
2:00	Gypsum discoloured.
6:00	End of test.

- 7.1.5 On November 10, 2022, MXL Engineering & Associates, Inc. provided the following test and engineering report using Nusens proprietary technology and intellectual property, identified as MXL Project No. 104-22-2220, signed and sealed by Bruno Lopes, P.Eng, the engineer of record (referencing underlying MXL Evaluation Report #18-030 dated April 27, 2018):

Conclusion

Based on the time-temperature curve of CAN/ULC S101 the ceiling temperature will be estimated to be 260°F (127°C) within the first 60 seconds of a fire event, and the LDPE plastic sheeting that is draped under the joist system will be the first point of contact as with the rising heat from a fire event. The LDPE plastic sheeting, with a melt temperature of 225°F (107.2°C), will melt and dissipate within the acceptable time range for an Ordinary sprinkler head activation.

Therefore, we can conclude that;

1. The LDPE plastic sheeting is permissible to be installed in a noncombustible construction based on OBC Section 3.1.5.1 (2) (a).
2. The LDPE plastic sheeting will melt prior to the activation time of the sprinkler head being attained.
3. The LDPE will not impede the sprinkler activation when the sprinkler is designed in accordance with NFPA 13.
4. The temporary installation of LDPE Plastic Sheeting by Nusens to protect internal contents during re-roofing activities is an acceptable practice.

- 7.1.6 Nusens holds a UL Solutions Classification under CCN BVDV (Sheathing Materials), UL file number R41250, evaluating the Nu-Ceil™ film under UL 723. The surface-burning data referenced in **Section 4, Table 2**, is drawn from this UL R41250 Classification.



- 7.1.7 On July 12, 2024, Element New Berlin conducted DSC testing under Report No. ENB036292P and provided the following test reports using Nusens proprietary technology and intellectual property:

		Element Materials Technology 3200 S 166th Street New Berlin, WI 53151-4141 USA	P 262 782 6344 F 262 782 3653 T 800 726 6385 info.newberlin@element.com element.com
Nusens	Attention	[REDACTED]	
	Your Reference	[REDACTED]	
	Report Number	ENB036292P	
	Author	Aaron Applebee	
	Date	July 12, 2024	
Subject: DSC Testing for One (1) Plastic LDPE Sheet Sample			

- 7.1.8 On July 26, 2024, Element New Berlin conducted TMA testing under Report No. ENB036348P (tested per ASTM E831 with 0.5 N loaded film/fiber expansion probe) and provided the following test reports using Nusens proprietary technology and intellectual property:

		Element Materials Technology 3200 S 166th Street New Berlin, WI 53151-4141 USA	P 262 782 6344 F 262 782 3653 T 800 726 6385 info.newberlin@element.com element.com
Nusens	Attention	[REDACTED]	
	Your Reference	[REDACTED]	
	Report Number	ENB036348P	
	Author	Aaron Applebee	
	Date	July 26, 2024	
Subject: TMA Testing on One Sample of LDPE Material			

- 7.2 The test reports cited above were commissioned by, and are the property of, Nusens as the Trade Secret Report Holder. DrJ Engineering, LLC, as an ANAB ISO/IEC 17065 accredited product certification body, has reviewed the underlying test reports and confirms that the data are accurate and were generated in accordance with the cited test standards by ISO/IEC 17025 accredited laboratories. These reports are cited herein as published references in support of this Listing and Technical Evaluation Report.
- 7.3 Information contained herein is the result of testing and/or data analysis by sources that conform to the conformity assessment framework described in NBC Volume 1, *“Relationship of the NBC to Standards Development and Conformity Assessment”*, and/or professional engineering regulations. DrJ relies upon accurate data to perform its ISO/IEC 17065 evaluations.
- 7.4 Where appropriate, DrJ’s analysis is based on provisions that have been codified into law through provincial, territorial, or local adoption of codes and standards. The developers of these codes and standards are responsible for the reliability of published content. DrJ analysis may use code-adopted provisions as a benchmark in evaluating whether a product, material, assembly, design, or method of construction demonstrates equivalency in quality, strength, effectiveness, fire resistance, durability and safety.
- 7.5 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate, listings, certified reports, conformity assessments by approved certification agencies, and research reports prepared by approved agencies and/or approved sources provided by the suppliers of products, materials, designs, assemblies and/or methods of construction. These are presumed to be minimum properties and relied upon to be accurate. The reliability of DrJ’s engineering practice, as contained in this report, may be dependent upon published design properties by others.



7.6 Testing and Engineering Analysis

- 7.6.1 The strength, rigidity and/or general performance of component parts and/or the integrated structure are determined by suitable tests that simulate the actual conditions of application that occur and/or by accepted engineering practice and experience.

- 7.7 Where additional condition of use and/or code compliance information is required, please search for Nu-Ceil™ Temporary Ceiling Containment System on the [DrJ Certification website](#).

8 Findings

- 8.1 As outlined in **Section 4**, Nu-Ceil™ Temporary Ceiling Containment System has performance characteristics that were tested and/or meet applicable regulations. In addition, Nu-Ceil™ Temporary Ceiling Containment System is suitable for use pursuant to its specified purpose(s).
- 8.2 When used and installed in accordance with this certification report for conformity assessment and the manufacturer installation instructions, Nu-Ceil™ Temporary Ceiling Containment System shall be approved for the following application(s):
- 8.2.1 Use as a temporary physical barrier/structure to mitigate dirt, dust, and debris when separating an area below the containment system from a construction project located above the barrier.
- 8.3 Nu-Ceil™ Temporary Ceiling Containment System will not impede the activation, nor the water distribution response of standard NFPA 13 installed sprinklers.
- 8.3.1 The Nu-Ceil™ Temporary Ceiling Containment System has been shown through testing to melt/soften and break and fall away, prior to the activation temperature level needed for activation and subsequent response time of NFPA 13 sprinklers.
- 8.3.2 The Nu-Ceil™ Temporary Ceiling Containment System has been shown through testing to not spread flame in a manner that would add to the conflagration.
- 8.4 Nu-Ceil™ Temporary Ceiling Containment System shall be approved because it complies with all pertinent regulatory requirements that exist for ceiling dust and debris containment systems.
- 8.4.1 Commercial sprinkler systems, designed pursuant to NFPA 13, will perform as expected by the NFPA 13 standards and sprinkler fuse activation temperatures.
- 8.5 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from Nusens.
- 8.6 This innovative product has been evaluated in the context of the codes listed in **Section 3** and is compliant with all known provincial, territorial, and local building codes. Where there are known variations in provincial, territorial, or local codes applicable to this report, they are listed here:
- 8.6.1 No known variations
- 8.7 NBC Volume 1 *“Relationship of the NBC to Standards Development and Conformity Assessment”*:

Certification

Certification is the confirmation by an independent organization that a product, service, or system meets a requirement. Certification may entail physical examination, testing as specified in appropriate standards or other normative documents, an initial plant inspection, and/or follow-up unannounced plant inspections... Certification bodies publish lists of certified products and companies.

Evaluation

An evaluation is a written opinion by an independent professional organization that a product will perform its intended function. An evaluation is typically done to determine the ability of an innovative product, for which no standards exist, to satisfy the objectives of a Code requirement.



- 8.8 ISO/IEC 17065 accredited third-party certification bodies,⁹ including but not limited to, Standards Council of Canada (SCC)¹⁰ and ANSI National Accreditation Board (ANAB),¹¹ confirm that product certification bodies have the expertise to provide technical evaluation services within their scope of accreditation. All SCC and ANAB product certification bodies meet NBC requirements to offer evaluation services for alternative solutions.¹²
- 8.8.1 DrJ is an ISO/IEC 17065 ANAB-Accredited Product Certification Body – Accreditation #1131¹³ and employs professional engineers.¹⁴
- 8.9 Through ANAB accreditation and the Global ACI Multilateral Recognition Arrangement (MRA), this report can be used to obtain product approval in any jurisdiction or country that has Global ACI Members and Global ACI Signatories to meet the Purpose of the MRA.
- 8.10 Product certification organizations, accredited by the SCC and ANAB, are defined as equivalent evaluation services:
- 8.10.1 Canada-United States-Mexico Agreement (CUSMA), Article 11.6 Conformity Assessment confirms mutual recognition by stating, “...each Party shall accord to conformity assessment bodies located in the territory of another Party treatment no less favorable than that it accords to conformity assessment bodies located in its own territory or in the territory of the other Party.”
- 8.10.2 The SCC National Conformity Assessment Principles states, “SCC is a member of a number of international organizations developing voluntary conformity assessment agreements that help ensure the international acceptance of Canadian conformity assessment results. Signatories to these agreements (like SCC) recognize each other’s accreditations as being equivalent to their own.”¹⁵
- 8.11 Building official approval of a licensed professional engineer is performed by verifying the professional engineer and/or their business entity are listed by the engineering regulators of the relevant jurisdiction.

9 Conditions of Use

- 9.1 As defined in **Section 4**, where material and/or engineering mechanics properties are created for load resisting design purposes, the resistance to the applied load shall not exceed the ability of the defined properties to resist those loads using the principles of accepted engineering practice.
- 9.2 As listed herein, Nu-Ceil™ Temporary Ceiling Containment System shall be used:
- 9.2.1 Nu-Ceil™ Temporary Ceiling Containment System shall be used for interior, non-structural applications only.
- 9.2.2 Nu-Ceil™ Temporary Ceiling Containment System shall not be considered a structure or classified as a dropout or open-grid panel system.
- 9.3 When required by regulation and enforced by the building official, also known as the Authority Having Jurisdiction (AHJ) where the project is to be constructed:
- 9.3.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an approved source, shall be approved when signed and sealed.
- 9.3.2 This report and the installation instructions shall be submitted at the time of permit application.
- 9.3.3 This innovative product has an internal quality control program and a third-party quality assurance program.
- 9.3.4 At a minimum, this innovative product shall be installed per **Section 6**.
- 9.3.5 This report shall be reviewed for code compliance by the AHJ in concert with the duties and powers granted to the building official by the provincial regulations governing such duties and powers.
- 9.3.6 The application of this innovative product in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspections, and any other regulatory requirements that may apply.



- 9.4 Design loads shall be determined in accordance with the building code adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (i.e., owner).
- 9.5 The actual design, suitability, and use of this report for any particular building, is the responsibility of the owner or the authorized agent of the owner.

10 Identification

- 10.1 Nu-Ceil™ Temporary Ceiling Containment System, as listed in **Section 1.1**, is identified by a label on the board or packaging material bearing the manufacturer name, product name, this report number, and other information to confirm code compliance.
- 10.2 Additional technical information can be found at www.nusens.ca.

11 Review Schedule

- 11.1 This report is subject to periodic review and revision. For the latest version, visit www.drjcertification.org.
- 11.2 For information on the status of this report, please contact [DrJ Certification](#).



Notes

- ¹ For more information, visit drjcertification.org or call us at 608-310-6748.
- ² Unless otherwise noted, all references in this report are from the 2020 version of the NBC. This alternative solution is also approved for use with the 2010 and 2015 NBC and the standards referenced therein.
- ³ References in this report to the National Building Code of Canada (NBC) apply to the Ontario Building Code (OBC), unless noted otherwise.
- ⁴ The Thermomechanical Analysis Inflection Temperature (TMA) is a measure of the temperature at which a plastic material begins to soften and deform under a specific load. It is a crucial property for determining how a material will behave when exposed to heat, especially in high-temperature applications.
- ⁵ Qualification is performed by a legislatively defined Accreditation Body. ANSI National Accreditation Board (ANAB) is the largest independent accreditation body in North America and provides services in more than 75 countries. DrJ is an ANAB accredited product certification body.
- ⁶ ANAB Product Certification Accreditation Program, DrJ Engineering, LLC, Accreditation ID 1131;
<https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?prgID=1&orgID=2125&statusID=4#:~:text=Bill%20Payment%20Date-,Accredited%20Scopes,-13%20ENVIRONMENT.%20HEALTH>
- ⁷ Canada Foreign Interference and Security of Information Act – 19 - Economic Espionage – (1) Every person commits an offence who, at the direction of, for the benefit of or in association with a foreign economic entity, fraudulently and without colour of right and to the detriment of Canada's economic interests, international relations or national defence or national security. (a) communicates a trade secret to another person, group or organization; or (b) obtains, retains, alters or destroys a trade secret. (2) Every person who commits an offence under subsection (1) is guilty of an indictable offence and is liable to imprisonment for a term of not more than 10 years...
- ⁸ ANAB is part of the CUSMA/USMCA and Global ACI, where the purpose of these agreements are to ensure mutual recognition of accredited certification and validation/verification statements between agreement signatories, and subsequent acceptance of ANAB accredited certification and validation/verification statements by professional engineers based upon having one universal approval process for the timely approval of innovative materials, products, designs, services, assemblies and/or methods of construction.
<https://anabpd.ansi.org/Accreditation/product-certification/DirectoryListingAccredited?menuID=1&prgID=1>
https://global-aci.org/en/member-details/?member_id=91
https://global-aci.org/en/member-details/?member_id=14
- ¹² NBC Division A Clause A-1.2.1.1.(1)(b) provides information on code compliance via alternative solutions and defines alternative solutions as "...*achieving at least the minimum level of performance required by Division B.*" NBC Division C Section 2.3 includes additional guidance for documentation of alternative solutions.
<https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?&prgID=1&OrgID=2125&statusID=4>
- ¹⁴ Through ANAB accreditation and the Global ACI, DrJ certification can be used to obtain material, product, design, or method of construction approval in any jurisdiction or country that has Global ACI Full Members and Global ACI Signatories to meet the Purpose of the MRA – "*certified once, accepted everywhere*".
- ¹⁵ The National Conformity Assessment Principles states, "*Product regulations and standards may vary from country to country. If these are set arbitrarily, they could be deemed as protectionist. The World Trade Organization (WTO) Agreement on Technical Barriers to Trade (TBT Agreement) aims to ensure that technical regulations, standards, and conformity assessment procedures are non-discriminatory and do not create unnecessary obstacles to trade. At the same time, it recognises WTO members' right to implement measures to achieve legitimate policy objectives, such as the protection of human health and safety, or protection of the environment. The TBT Agreement strongly encourages members to base their measures on international standards as a means to facilitate trade. Through its transparency provisions, it also aims to create a predictable trading environment.*"