



Olen, February 6th, 2018

We, Novatech International NV, hereby confirm that our products do not contain any of the chemicals listed in the A20 checklist.

Further detailed information of our products and specific warranties and restrictions are described on the relevant technical data sheets and MSDS-files. These documents can easily be consulted on our website.



Novatech International NV
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Checklist A20

Table 55: Environmental toxin list PRODUCT GROUP	CHEMICALS TO AVOID For more information of the listed substances and other substances to be aware of, see www.erdetfarlig.no or www.miljodirektoratet.no/kjemikaliesok	DOCUMENTATION (to be completed for each project)
Building materials		
Building boards	Arsenic, Lead, Brominated flame retardants (HBCD, TBBPA), Phthalates (DEHP), Chromium, Octyl-/Nonylphenol	
Vinyl or PVC flooring	Phthalates (DEHP), Bisphenol A, Lead, Arsenic, Brominated flame retardants (HBCD, TBBPA), medium-chained chlorinated paraffins (short-chain chlorinated paraffins are prohibited)	
Wallpaper (vinyl-/wet room wallpaper and fibreglass wallpaper)	Brominated flame retardants (HBCD, TBBPA), Phthalates (DEHP), Lead, Arsenic and medium-chained chlorinated paraffins	
Carpets	Lead, Brominated flame retardants (HBCD, TBBPA), Chlorinated paraffins, Chromium, Octyl-/Nonylphenol, PFOS/PFOA/PFCA,	
Preservative treated wood	Arsenic, Chromium, Creosote	
XPS (extruded polystyrene), EPS (expanded polystyrene) Cellular rubber insulation	Brominated flame retardants (HBCD, TBBPA) (flame retardants penta-, octa- og deca-BDE are prohibited)	
Polycarbonate sheets	All polycarbonate contains Bisphenol A	
Windows/ exterior doors	Bisphenol A, Lead, Brominated flame retardants (HBCD, TBBPA), Phthalates (DEHP), chlorinated paraffins, PFOS/PFOA, Octyl-/Nonylphenol	
Chemical products		
Glue	Bisphenol A, Lead, chlorinated paraffins, Chromium, Octyl-/Nonylphenol, TCEP	
Fillers, sealants and foam	Bisphenol A, Phthalates (DEHP), chlorinated paraffins, Chromium, Octyl-/Nonylphenol, siloxan (D4/D5)	
Paint, stains and varnishes	Bisphenol A, Lead, Phthalates (DEHP), cadmium, chlorinated paraffins, Chromium, Octyl-/Nonylphenol, PFOS/PFOA/PFCA, siloxan (D4/D5)	

Information regarding checklist A20

Background

The list is based on the Norwegian Environment Agency's (EA) list of the most environmentally hazardous chemicals, the "worst chemicals", and their list of what chemical products and building materials they can be found in. The EA has gathered this information on their website www.erdetfarlig.no.

The basis for BREEAM-NORs requirements on documenting the absence of the "worst chemicals" is in the law of product control § 3a The substitution duty, and TEK 10 § 9-2. Also, most products containing the "worst chemicals" are categorised as hazardous waste. The disposal of hazardous waste when replacing products means increased costs for the building owner.

Checklist A20 contains the most health- and environmentally hazardous chemicals based on the EA's assessment. There are more health- and environmentally hazardous chemicals in building materials. See www.erdetfarlig.no for further information. However, the minimum requirement of the content of these health- and environmental hazardous chemicals in BREEAM-NOR, is only related to Checklist A20.

How to use the checklist

For each building material given in the left column, the project must document the absence of the corresponding chemicals in the building material. If the project does not use the building material in the left column, the project manager must confirm this in writing. When several products are used within each product group, ex. different types of paint or glue, all products used in the project must be checked out and documented.

The project can produce a deviation statement if necessary, due to technicalities, to use a product which contains one of the "worst chemicals". The deviation statement must adhere to the substitution duty, be signed by the developer and approved by the assessor to be valid as an exception from BREEAM-NORs minimum requirements.

For building materials, approved documentation will be one of the following:

- EPD (Environmental Product Declaration) stating the chemical content
- Sintef Byggforsk Teknisk Godkjenning (TG) of 1.1.10, as a guarantee that the product does not contain the listed chemicals.
- Ecolabel or Nordic Ecolabel. For a listing of the labelled products see www.ecolabel.no
- BASTA
- The Swedish Building Product Declaration (Byggvarubedömningen) level Accepted or Recommended
- Safety Data Sheets
- A letter from the legally responsible at the producer in question stating that the given product does not contain one of the chemicals from the A20 checklist.

Regarding CAS-numbers

A list of CAS-numbers relevant to the substances listed on the Priority list can be found on NGBCs website www.ngbc.no. The list of CAS-numbers must be considered as a list of examples and is not exhaustive.

More information about how particular substances are regulated and listed on the priority list (or other lists) can be found on the Norwegian Environment Agency's website www.miljodirektoratet.no/kjemikaliesok.

NB: The content in "Kjemikaliesøk" is limited to the substance information available in the different lists or regulations. Some substances are listed as individual substances and others as groups of substances. When searching for a specific CAS-number in the database, it might therefore happen that no match is found if a substance group is listed without individual CAS-numbers. Some substances are also listed with no CAS- og EC-number, and the name of substances should therefore also be used for search. The list is not exhaustive and should be used as guidance only.