

JAN 21 2021

A BILL FOR AN ACT

RELATING TO STATE BUILDING CONSTRUCTION.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. The legislature finds that Hawaii is committed
2 to mitigating climate change. Act 15, Session Laws of Hawaii
3 2018, reflects this commitment, establishing a statewide target
4 of sequestering more atmospheric carbon and greenhouse gases
5 than are emitted within the State.

6 The legislature also finds that concrete is the most widely
7 used construction material in the world because of its low cost,
8 strength, and durability. The legislature finds that cement,
9 the critical ingredient in concrete, produces more than seven
10 per cent of the world's carbon dioxide. However, emission of
11 carbon dioxide from cement can be halted by injecting carbon
12 dioxide into the concrete during mixing. This process
13 chemically transforms the carbon dioxide into mineral form,
14 embedding it into the concrete and preventing its release as a
15 gas.

16 The purpose of this Act is to work toward the State's
17 emission sequestration target by requiring all state building



1 construction that uses concrete to use post-industrial carbon
2 dioxide mineralized concrete, unless the use of these materials
3 will increase costs or delay construction.

4 SECTION 2. Chapter 107, Hawaii Revised Statutes, is
5 amended by adding a new section to part II to be appropriately
6 designated and to read as follows:

7 "§107- Use of carbon dioxide mineralized concrete. All
8 state building construction that requires the use of concrete
9 shall use post-industrial carbon dioxide mineralized concrete
10 unless the use of these materials will:

- 11 (1) Cost more than the use of concrete; or
12 (2) Delay the completion of the state building
13 construction.

14 As used in this section, "post-industrial carbon dioxide
15 mineralized concrete" means concrete that has undergone active
16 carbonation treatment during mixing, in which carbon dioxide is
17 injected into and mineralized within the concrete."

18 SECTION 3. This Act does not affect rights and duties that
19 matured, penalties that were incurred, and proceedings that were
20 begun before its effective date.

21 SECTION 4. New statutory material is underscored.



S.B. NO. 161

1 SECTION 5. This Act shall take effect upon its approval.

2

INTRODUCED BY: 



S.B. NO. 161

Report Title:

State Building Construction; Carbon Dioxide Mineralized Concrete

Description:

Requires all state building construction that uses concrete to use post-industrial carbon dioxide mineralized concrete unless use of these materials will increase costs or delay construction.

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