


Troldtekt: DIGITAL FORMULA

- + Unlimited Design Options
- + Spatially Responsive Acoustic System
- + New Quick Drying Formula
- + Complex Geometric Forms
- + Enhanced Acoustic Conditions for Any Space
- + Off-Site or In Situ Fabrication
- + 100% Recyclable Materials
- + True to the Troldtekt Brand



Troldtekt 

What is DIGITAL FORMULA?

Digital Formula is a new product that transforms the way in which acoustic panels can be created and designed, yet remains true to the values of the Troldtekt brand. Digital Formula is both Form and Formula; it is a new design and an new product composed of the same essential Troldtekt ingredients.

The new formula is created using Aalborg Portland A/S Cement, Norway Spruce Wood Wool and Water, although altering the quantity ratios. By mixing the ingredients a 1:2:1/5 ratio, a slightly denser, quick drying, product can be created. Once mixed, the new product is transferred into a holding container and fed into a specialist designed Robotic Arm 3D Printer.

The form is up to you! Using a custom Troldtekt printing apparatus, an industrial robotic arm can be programmed to 3-dimensionally print any computer generated form. Designs can then be individually created in response to a certain space in order to enhance the acoustic conditions.

Troldtekt acoustic systems are no longer restricted by wall, ceiling or mountable space for its use. Digital Formula offers the ability to create an acoustic buffer to fit any building or space. Historical buildings, open plan offices and spaces that cannot have acoustic panels mounted directly onto the existing walls are perfect settings to use Digital Formula.

Using any 3D computer modelling program, intricate forms can be designed with greater accuracy and complexity than the abilities of the human hand. Each acoustic system can be designed and tested in its acoustic performance using specialist programs prior to its construction. Digital Forms can be fabricated off-site and delivered, or printed directly into the desired space depending on the project constraints.

Digital Formula expands the possibilities of acoustic technologies yet remains true to the essence of Troldtekt.

35 Litres



Aalborg Portland A/S Cement

+

70 Litres



Norway Spruce Wood Wool

7 Litres



Water

+

MIX



RATIO: 1:2 + 1/5 Water

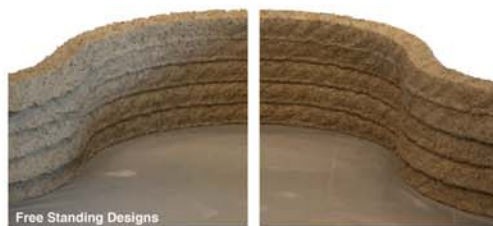
35L Cement
70L Wood Wool
7L Water

85L Troldtekt DIGITAL FORMULA

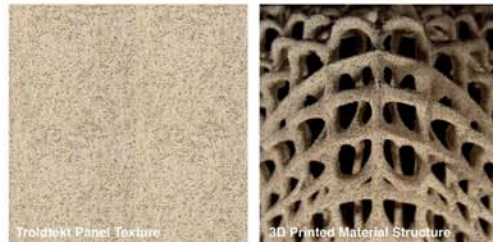
STORAGE + DELIVERY



Self - Supporting Material Compound

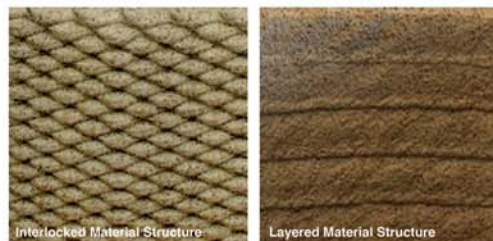


Free Standing Designs



Troldtekt Panel Texture

3D Printed Material Structure



Interlocked Material Structure

Layered Material Structure

DIGITAL FABRICATION



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