

sonoboard®

USER GUIDE

Instructions how to handle and repair

**FIELD-
PROVEN**

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the 9 outstanding benefits

The Sonoboard Characteristics



1 UV Light Resistant
Nondegradable



2 Water Resistant
Nonabsorbent — No Swell — No Shrink



3 Strong & Light
Long-Life Bending Stiffness & Easy Handling



4 Temperature Resistant
Interval -30° to +80°C



5 Easy-to-Clean
Water Jet Cleaning — Wash-and-Pour



6 Nail Proof
Self-Healing



7 Superior Life-Cycle Cost
Durable & Long-Lasting — Almost Forever



8 Excellent Finish
Every Time — Reusable



9 Recyclable
Saves Birch Trees

Sonoboard® is a form facing board, made of a glass fibre reinforced composite material with a high resistant thermoplastic surface. Due to the sandwich design, the board is very strong, and also light. Because the Sonoboard is wood-free, you can handle it very differently compared to plywood.

Sonoboard can be stored outside, you can use water while cleaning it and nail holes will not degrade or make the board swell or rotten. The Sonoboard is 100% waterproof.

Sonoboard is delivered cut to size, you can also order your boards machined!

Sonoboard

BEFORE

“used 70 times...
good to go again”

AFTER

Plywood

BEFORE

“used 70 times...
needs replacement”

AFTER

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Storage



Sonoboard can be stored outdoors without coverage and withstands any kind of weather.

Sonoboard is always stacked with the form facing side up. The back side has a printed batch number in one corner for traceability.

Assembling & Lifting

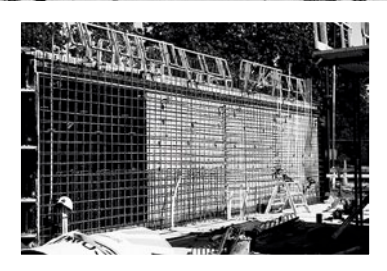


Sonoboard is optimal to handle with a vacuum lift, because of its smooth surface. When lifting it manually always use protective gloves and consider the backs of your labor.

Sonoboard is developed as a board in a formwork frame. The board can either be fastened with rivets or screws with large treads. Sonoboard can be sealed in the frame with silicone, but it's not necessary.



Stuttgart, Germany



Stockholm, Sweden



Zürich, Switzerland



Bromma, Sweden

On the Construction Site

RELEASE AGENT

Apply a very thin film of oil or other release agent between every mould, for environmental reasons use biodegradable oil.

A low viscosity release agent is recommended.

CLEANING ON THE CONSTRUCTION SITE

On the construction site, the easiest way of cleaning between the uses is to apply a small amount of release agent and then use a scraper firmly.

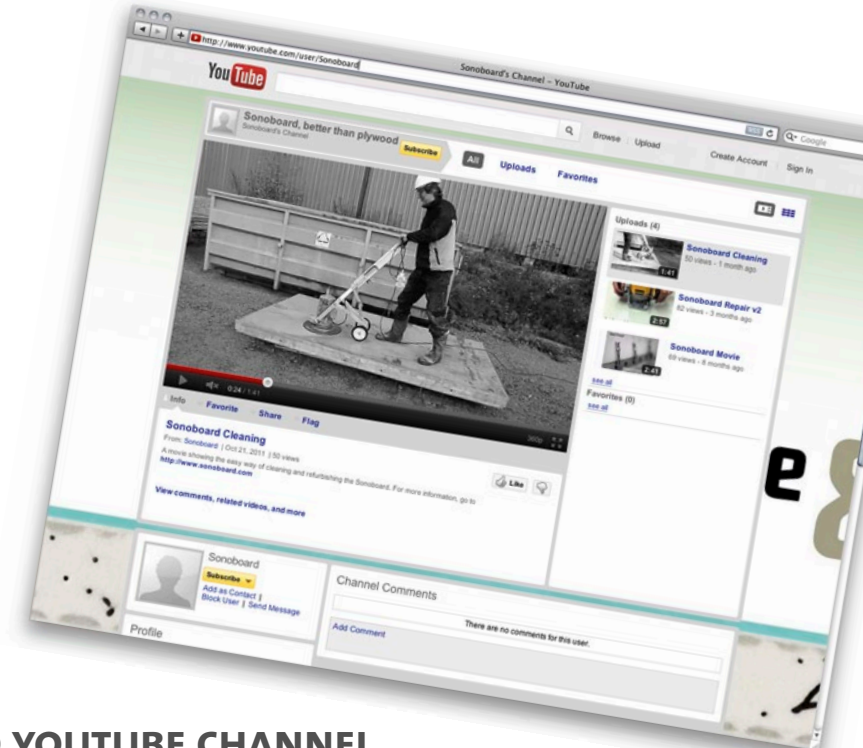
Off-Site: At the Warehouse



CLEANING AND REFURBISHING

The most effective way to clean Sonoboard is with a high pressure water jet. You can use jets with up to 500 bars of pressure, depending on the rotating die.

After a couple hundred times of use the surface might look old and dirty. The function will still be very good, but it is always possible to refurbish the surface with a grinding machine and a very fine grinding paper. After the grinding — use the same machine with a Scotch-Brite™ and the surface will look great and shining..



SONOBOARD YOUTUBE CHANNEL

Discover the Sonoboard YouTube channel at <<http://www.youtube.com/user/Sonoboard>>. There you will find instructions how to clean and repair boards. We're continuously adding instructive movies on various topics.



Repair

If your board is damaged, you can always repair the damage. Sonoboard recommends different repair techniques depending on the damage. Sonoboard Patch Repair Kit can be purchased from Sonoboard. The Repair Kit includes machine, tools, glue and patches.

A. PATCHING

When an area is damaged, you can machine the area and repair it with a patch.

It's not recommended that you apply more than 100 patches per m².



1. Repair patch.
2. Mill.
3. Milled area. Glue and fill with the patch.
4. Ready to be used again.

Machining	Repair Patch
INSTRUCTIONS	Use the Sonoboard Patch Repair Tools (Art. No 200-001)
TYPE	Hard Metal Machining Tool for 40 and 60 mm repair patches
BRAND	Sonoboard (Art. No 200-016 and 200-017)
ROTATING SPEED	1,000 - 2,000 RPM
GLUE	Sikaflex 252 Patch Glue (Art. No. 200-019)



Repair

A-KLASSE

B. HOT MELTING

For small damages or a deep scratches from rebars, the surface can be simply and fast repaired with hot melt. Sonoboard Hot Melt Repair Kit can be purchased from Sonoboard. The Repair Kit (Art. No. 200-002) includes a Hot Melt pistol and Hot Melt rods.



1. Mill or scrape the area clean. machining depth 3 mm.
2. Milled cavities.
3. Fill the cavity with hot melt.
4. Cool down fast. Don't press. Wait 30 seconds.
5. Scrape the surface with a metal piece plane with a sharp tool such as the Sonoboard Scraper (Art. No. 200-012)



Repair

C. PLUGGING — NAIL HOLE REPAIR

Nailing is ok; it does not affect the result. Every nail hole gets filled with concrete and self-heals, though the surface will have a lot of black marks and to avoid that it is possible to use the Sonoboard Plug System.



1. The Sonoboard Mandrel.
2. Hammer the concrete in the nail hole with the Sonoboard Mandrel (Art. No. 200-035).
3. Fill the hole with the Sonoboard Plug. (Art. No. 200-036)
4. Smoothen the surface by using the Sonoboard Scraper (same as used for hot melt).
5. The plug and the surface of the panel have the same color, RAL7032.

Machining the Sonoboard



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Machining	Cutting
INSTRUCTIONS	To cut the Sonoboard it is recommended to use a normal sawing machine with rotating saw blade for wooden panels.
TYPE	Hard metal saw blade
BRAND	Swedex/Kanefusa type 6BA10 Ø 300 mm Z96 3.2 mm thickness (example)
ROTATING SPEED	5,660 RPM
MAINTENANCE	Clean the saw blade with acetone every day.

Machining	Milling
INSTRUCTIONS	To avoid blur on the backside, try to use circular inter polar machining.
TYPE	12 to 16 mm diameter, Hard metal diamond covered machining tool
BRAND	Sandvik Coromant Coro Mill 390 (Example)
ROTATING SPEED	1,500 RPM, Ø 12 mm

Machining	Drilling
INSTRUCTIONS	The drill will be weared, but there is a new type of drills for glass and carbon fiber products.
TYPE	Hard metal diamond covered machining tools
BRAND	Sandvik Coromant Coro Drill 854 (example)
ROTATING SPEED	8,000 - 12,000 RPM

Warning — Do not!

Sonoboard is a versatile and durable. But there are certain things you should **NOT** do:

DO NOT EAT

The Sonoboard may look good but the composite of glass fiber, polyurethane foam and plastic non-stick surface are **NON-EDIBLE** and may be harmful.

DO NOT BURN OR EXPOSE TO OPEN FIRE OR SPARKS

Burning a Sonoboard will result in **POTENTIALLY TOXIC GASES**. Instead please make sure to contact Sonoboard or your official Sonoboard provider how to recycle it. Do not burn the boards. Boards shall only be burned in a controlled environment. Please don't cut rebars close to Sonoboards. Keep away from other types of machining that sparks too. If you must, cover and protect the surface for safety reasons. The board does not decompose. The Sonoboard is designed to last, see the next page.

DO NOT CLEAN WITH CHEMICALS OR HEAT

The Sonoboard is water repellent and will never absorb any water or moisture. Use water for cleaning. All the recommended cleaning methods are water based.

- Do not clean with acetone.
- Do not clean with a gas burner, it will melt and bubbles will destroy the board.

DO NOT STEP ON IT WHEN WET

Be cautious when you step on a wet Sonoboard, because it gets **SLIPPERY**.

ONLY USE SPECIFIED TOOLS

The Sonoboard is a rugged and durable board. But to maximize its performance and life span, use only specified tools. Use of non-specified tools will void any warranty. See specific tool specification sheet for tools.

USE MOUTH PROTECTION

When machining the Sonoboard don't forget to use mouth protection.

USE PROTECTION GLOVES

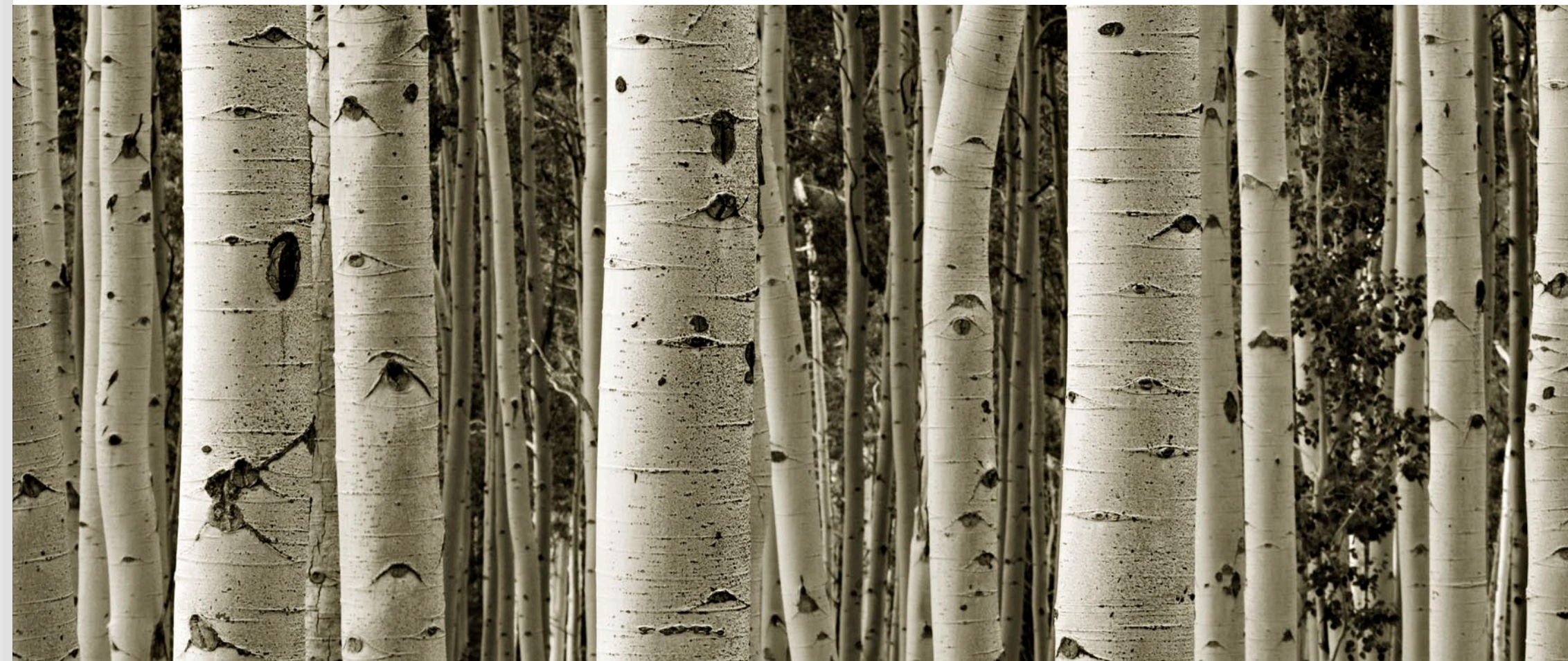
Beware of sharp edges and don't handle the Sonoboard without protection gloves.

Environment — Do!

DO RECYCLE

The product is approved to be burned in a combustion plant where energy can be recycled after use. If you do not have the possibility to recycle, you can always send the boards back to your supplier.

EUROPEAN WASTE CODE, EWC 170203





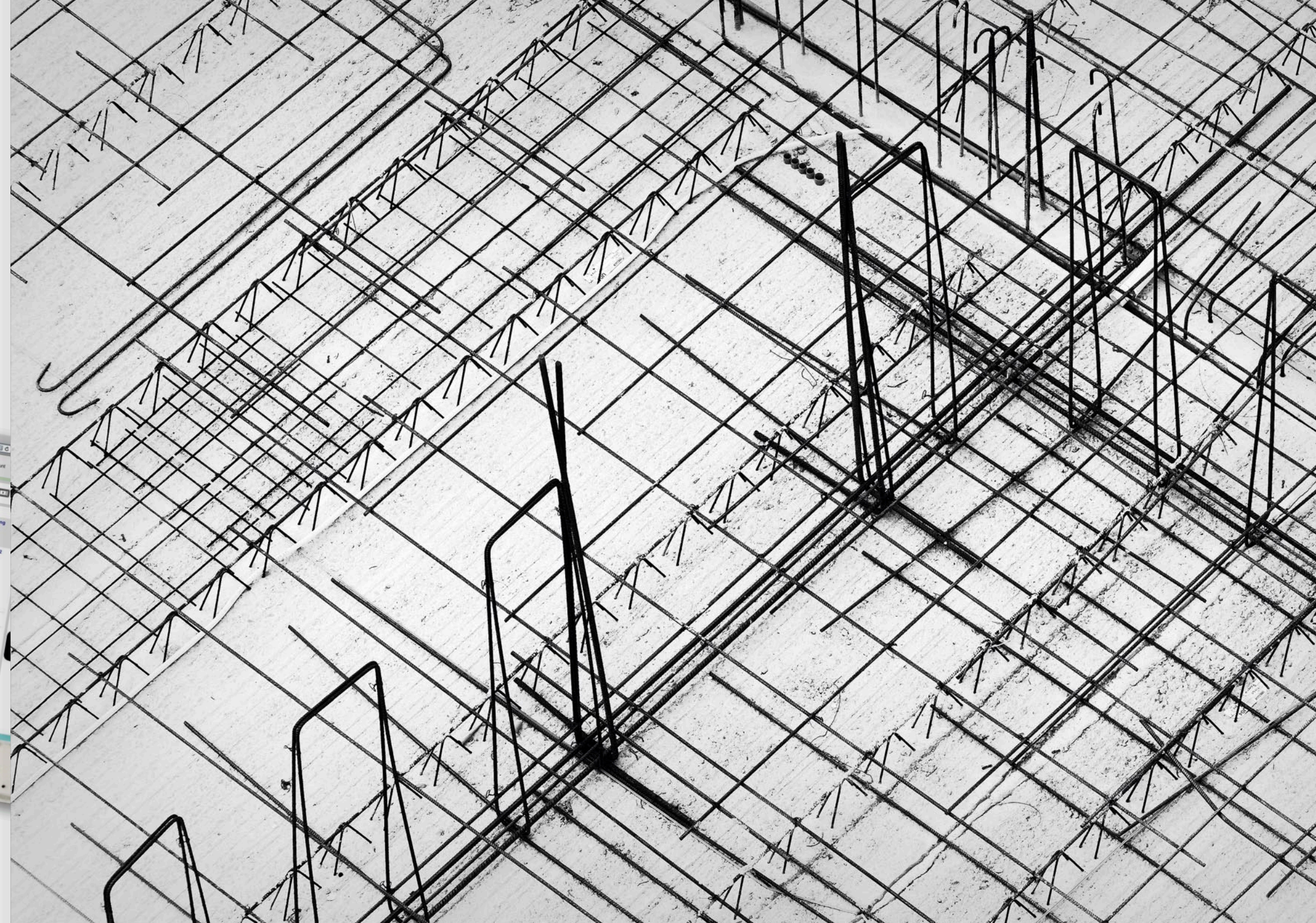
sonoboard

Discover:

<http://www.YouTube.com/user/Sonoboard>

THE SONOBOARD YOUTUBE CHANNEL

The Sonoboard channel is the place to find practical and instructive movies. Movies can be used to train your coworkers. Movies tell the story in a way so that all workers on your site can be trained. We continuously post new movies there. Should you miss any video, get back to us.



TO ORDER CONTACT:

sonoboard.com

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