



# N u f o r m   N e w s

Nuform Building Technologies Inc. Newsletter

February, 2010 Issue #2

## In This Issue

Feature Product

Featured Project

NUFORM Tech Tip

Upcoming Events

Industry News

Dear [[First Name]],

Welcome to the second edition of NUFORM News by [NUFORM Building Technologies Inc.](#) NUFORM is an innovative, quality-driven building technologies company.

Through our newsletter we hope to provide you with regular updates on our industry leading products, [CONFORM™](#), [RELINE™](#) and [RENU™](#), ideal for your building needs. [CONFORM™](#), our patented concrete wall forming system is revolutionizing the building industry and making it easy for all businesses, large and small, to build solid, cost-efficient structures.

Our [RELINE™](#) and [RENU™](#) products have been used to line and refinish the interior of thousands of agricultural, vehicle wash and commercial facilities across North America.

---

## Feature Product - CONFORM™



The Revolutionary Stay-in-Place  
Concrete Wall Forming System



Since its introduction in 1992, Nuform has received global recognition for its approach in providing an innovative solution to the construction industry.

[CONFORM™](#) is a patented polymer-based stay-in-place formwork for concrete walls. The extruded components slide and interconnect together to create a concrete formwork. The result is permanent, attractive, and pre-finished concrete walls that can be easily constructed in any climate. CONFORM™ provides flexibility of design, whether you are building a home or a large industrial complex. CONFORM™ requires no painting, and resists ultraviolet radiation. Furthermore, CONFORM™ is highly durable, virtually maintenance free, impervious to weather, and extremely energy efficient. CONFORM™ is also environmentally friendly as the polymer components are recyclable, energy efficient, and non-toxic.

Put it all together, and you can see that CONFORM™ offers complete design flexibility and an innovative building product that is easy to maintain, friendly to the environment, and built to last. Whether you are a developer, contractor, architect, engineer, or designer you can find attractive and cost effective solutions for your next project with CONFORM™.

#### Features:

- Solid Concrete Construction
- Quick On-Site Assembly
- Proven Cost Savings
- Unparalleled Energy Efficiency
- Easy to Maintain
- Rodent/Pest Resistant
- Long-Term Durability: Will not rust, corrode, flake, peel or rot!
- Resistant to extreme weather conditions and can be designed to handle earthquake and hurricane conditions
- Superior Indoor Air Quality: Mold and mildew resistant

---

## Featured Project

**Project Name:** [Summerhill Goat Dairy](#)

**Project Location:** San Joaquin Valley, California

**Project Description:** 20,000 sq ft. CF6 & CF8i [CONFORM™](#) walls and [RELIN™](#) ceilings

**Owner:** John & Anneke de Jong



The de Jong family began their venture in goat dairying in 1999, with the purchase of [Summerhill Goat Dairy](#). At the time it was a small operation, milking a few hundred goats on 2 acres in Southern California. The purchase included a small bottling plant where the milk was pasteurized, bottled and delivered to health food stores. Over the past decade Summerhill Dairy expanded considerably to meet the growing demand for quality goat milk. Summerhill Goat Dairy was soon milking 850+ goats, continuing to pasteurize and bottle the milk on the premises. It was soon realized that a larger facility would be needed.

Land was purchased in the San Joaquin Valley, just north of Hanford CA, where the de Jong family relocated and began designing a new facility that would both meet current demands and provide space for future expansion. A new state of the art milking parlor was designed around an 84 goat rotary from the Netherlands. They chose the CF6 and CF8i CONFORM™ product for the walls in their facility for its durability and ease of maintenance.

They used the RELINE™ panel for the ceilings which provided a brighter, cleaner looking facility. The quick on site assembly and ability to make changes on the fly reinforced their decision to use CONFORM™. A bottling plant was included in the same building so the milk could continue to be produced, pasteurized and bottled under one roof. Three large enclosed loafing barns give plenty of space for the animals, allowing them to be cared for in the best manner possible.

The de Jong family has maintained a hands on approach to the goat dairy as well as the building project. Their motto is "*family owned – farm fresh.*" They are excited about the opportunity to participate in the future growth of the goat dairy industry.

*"Summerhill Goat Dairy would like to thank NUFORM for their quality product that meets the high standards and expectations we have for our new facility."* added John and Anneke de Jong.

### **NUFORM is offering guided tours of the Summerhill Goat Dairy during the World Agricultural Expo Show in Tulare, California February 9-11.**

If you would like to visit this fabulous facility come see us at booth #6117 or call/email: [Bruce Johnston](#) at 702.205.9658, to book your tour.

---

## **Nuform Tech Tip**

### **PLASTIC "MOVES"**

When installing RELINE™, the future thermal expansion or contraction from temperature changes must be considered. When RELINE™ is installed in cold weather, space is required at the ends and between panels in order that future expansion, as the temperature increases, will not buckle the panels.

When RELINE™ is installed in hot weather, space is minimized at the ends and between panels in order that future contraction, as the temperature decreases, will not pull the panels apart. The coefficient of expansion for PVC is 0.00005 cm/cm/°C or 0.000028 in/in/°F.

### **For example:**

RELINE™ installed at -30°C (-22°F) and then is exposed to +35°C (+95°F) will

expand. A 4876 mm (16') length or width will increase by 16 mm (5/8"). Therefore, each end should have a minimum of 10 mm (3/8") clearance for expansion so that the expansion will not buckle the panels. Between each panel, a minimum clearance of 1.25 mm (3/64") is required so that expansion will not bow the panels.

RELIN<sup>TM</sup> installed at +35°C (+95°F) and then is exposed to -30°C (-22°F) will contract. A 4876 mm (16') length or width will decrease by 16 mm (5/8") Therefore each end should have a maximum of 3 mm (1/8") clearance so that contraction will not expose the ends. Between each panel, a maximum clearance of 0.25 mm (1/64") is required so that contraction will not pull the joints apart.

Total Temperature Change	3658 mm (12') Length/Width Expansion or Contraction	6096 mm (20') Length/Width Expansion or Contraction
40°C (100°F)	7.3 mm (0.29")	12.2 mm (0.48")
50°C (120°F)	9.1 mm (0.36")	15.2 mm (0.60")
60°C (140°F)	11.0 mm (0.43")	18.3 mm (0.72")
70°C (158°F)	12.8 mm (0.50")	21.3 mm (0.84")
80°C (176°F)	14.6 mm (0.58")	24.4 mm (0.96")

Contact your NUFORM Sales Representative for more information or visit the [technical page](#) on our website.

## Upcoming Events

Please visit the NUFORM Team at one of the following trade shows near you in February and March 2010. We look forward to meeting you.

<a href="#">World of Concrete</a>	Las Vegas, NV	Feb. 2-5
<a href="#">Southern Farm Show</a>	Raleigh, NC	Feb. 3-5
<a href="#">World Agricultural Expo</a>	Tulare, CA	Feb. 9-11
<a href="#">National Farm Machinery</a>	Louisville, KY	Feb. 10-13
<a href="#">Canadian International Farm Equipment Show</a>	Mississauga, ON	Feb. 17-19
<a href="#">New York Farm Show</a>	Syracuse, NY	Feb. 25-27
<a href="#">CARWACS</a>	Toronto, ON	Mar. 3-4
<a href="#">Agricultural Expo</a>	Lethbridge, AB	Mar. 3-5
<a href="#">Western Canadian Dairy Seminar</a>	Red Deer, AB	Mar. 9-12
<a href="#">Ottawa Valley Farm Show</a>	Ottawa, ON	Mar. 16-18
<a href="#">Alberta Pork Congress</a>	Red Deer, AB	Mar. 17-18

## Industry News - Helping to Make the 2010 Olympics Possible

TORONTO (January 28, 2010) – Go behind the scenes at the Vancouver Olympics,

take a closer look at the spectacular venues and athletic performances, and you'll discover something that is helping to make the 2010 Winter Games possible.

From helmets and jerseys to the plumbing system of the Athletes' Village, from skis, skates and bobsleighs to 'ag bags' for composting, from speed suits to the 'green' roof on the convention and exhibition centre – plastics are playing a major role.

Athletes from around the world will be pushing their limits and breaking records with state-of-the-art equipment made of plastic materials and composites. And in what is one of the most sustainable developments in North America, the site infrastructure itself relies on advanced and innovative uses of these materials.

- Hockey players will each be wearing some nine kilograms of protective gear, mostly made of plastics (clear polycarbonate plastic face shields, high density polyethylene pads, high impact-resistant helmets made of composite plastic lined with plastic foam core padding).
- Goalie facemasks are constructed of kevlar, the netting installed in the goals is a sturdy nylon mesh, and the windows around the hockey rink are plexiglass.
- The Vancouver Convention & Exhibition Centre features Canada's largest 'green' roof. More than three million board feet of energy-saving STYROFOAM™ extruded polystyrene foam insulation materials manufactured by Dow Chemical Canada ULC (the official supplier of insulation to the 2010 Winter Games) went into its construction.
- Bobsleighs are built to be highly aerodynamic. With fiberglass cowlings on steel frames, the sleds are both incredibly strong and efficiently sleek, allowing crews to reach bone-jarring speeds in excess of 140 km/h.
- The plumbing system at the Athletes Village is made entirely of plastic pipe. This system is more sustainable and efficient than conventional materials.
- Today, hockey skates are often made of synthetic leather or ballistic-proof nylon for protection against cuts and the high velocity impact of pucks. Figure skates have foam padding that can be heat molded to meet the fitting needs of each skater.
- Over 30,000 cubic yards of wood waste from cleared timber was chipped, mixed with organic material, and stuffed into large plastic 'ag bags' for composting. Once composted, this material was removed from the bags, mixed with indigenous wildflower seeds and then applied to the disturbed soil sites to facilitate re-growth.
- Before the venues were completed, Canadian athletes were training at Farnham Glacier in south eastern B.C. Skiers and snow boarders stayed in high-tech polyester tents.
- Much of Vancouver's Olympic 'feel' will come from the huge vinyl banners and wraps created by 3M Canada (an official supplier to the Winter Games) and applied to buildings, bridges, cars, buses and ferries.
- Much of the outerwear worn by athletes incorporates plastics because these materials are light-weight, waterproof, wear-resistant, snug and highly stretchable – all important factors in peak performance.

"As Canadians, we can be proud of the innovations our industry has brought to the 2010 Olympics. Today's intelligent plastics are vital to the modern world. These materials enhance our lifestyles, our economy and the environment," said Mark Badger, President and CEO of the Canadian Plastics Industry Association (CPIA).

For further information, visit [www.IntelligentPlastics.ca](http://www.IntelligentPlastics.ca) or contact:

Sara Cauchon  
416-777-0368

---

### The Canadian Plastics Industry Association

The CPIA has re-branded itself to reflect its renewed mission – helping members grow their business by fostering a more positive public view of the industry and its products.



If you'd like to support this effort through membership, contact the CPIA's CEO and President, Mark Badger, at [mbadger@cpi.ca](mailto:mbadger@cpi.ca) or 905-678-7748 x 229.

Every NUFORM News newsletter will feature a project that utilizes one of our products. If you have a project you would like featured in an upcoming NUFORM News newsletter please forward your pictures or email us at [info@nuformdirect.com](mailto:info@nuformdirect.com). We'd love to see your project!

powered by **Swiftpage** 