



# Noeux-les-Mines, France

## The Customer

Loisinord ski slope in Northern France is a 30 minutes drive from Lille and 1.5 hours from Paris and Brussels. In the late 1990's, despite Briton Engineering Developments entering a design and putting forward a bid, the local council decided to opt for a seemingly cheaper moulded plastic surface. The surface had a negative effect on custom and the slope was closed soon after. In 2002 the local council decided to try and re-open the facility and Briton's designs and Snowflex® were back in the running as the surface material of choice.

## The brief

Briton were to remove the failed injection-moulded surface, re-sculpt the earth to bring the slope in line with today's market requirements and install the proven Snowflex® system throughout. Integral in the overhaul was the slope design Briton is world-famous for which included rails, half pipes, kickers, moguls etc.

## Our solution

Briton was familiar with the story. Dull, dangerous, unchallenging and unprofitable needed to become daring, dependable, interesting and profitable! Over the space of six months the 300m long slope was transformed into a skiers and snowboarder's paradise. A variety of features evolved on the slope including the world's largest kicker at 2.5m high, an Olympic sized half pipe, a fun box and rail along with a cornice drop-in at the top of the slope.

## Facts and Features

<b>Overall budget</b>	GBP £1,800,000
<b>Main slope (Phase 1)</b>	7,900m <sup>2</sup> Snowflex® installed
<b>Main slope (Phase 2)</b>	2,100m <sup>2</sup> Snowflex® installed
<b>Nursery slope (Phase 3)</b>	1,200m <sup>2</sup> Snowflex® installed
<b>Features included</b>	2 x kickers (inc world's largest artificial kicker) Olympic size half-pipe Mogul run Fun box Rail Hip Cornice drop-in
<b>Project Duration</b>	Six months

Project viability analysis

Project design and development

Site surveys

Civil engineering works and supervision

Manufacture and supply of Snowflex® system

Installation of Snowflex® system

Manufacture and installation of BritonMist slope lubrication system

Manufacture and installation of Briton lift systems

Supply and installation of Doppelmayr lift systems



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# Norfolk Ski Club

## Customer

Norfolk ski club is a hugely successful ski and snowboard club based in Norwich. The slopes featured mostly mesh. In 2004, with the aid of a lottery grant, the club decided it was time to update their facilities. The visionary committee recognised the advantages of Snowflex® over other surfaces so Briton Engineering was the obvious choice to carry out the slope refurbishment work.

## The brief

Consultations with the club highlighted the shortcomings of the existing facility. This included the lack of a safe freestyle facility and the dangerous out-dated mesh surface. The club also budgeted for an additional intermediate slope in Snowflex® which would give them a stepping stone from the beginner slope to the more advanced facilities planned.

In addition Briton was to install 5 new Sun Kid travellers to service the new slopes.

## Our solution

The nursery slope was renewed first. The outdated mesh matting was removed and Snowflex® installed in its place, with little adjustment needed to the overall gradient and shape of the slope. The expert installation was phased minimising disruption to the Club's beginner's classes.

The fun-park proved to be more of a challenge, as it needed a bowl where there was currently a hill. Briton's expertise ensured that everything was sculpted to the exact specifications drawn in the design stage.

The intermediate slope was the last stage of the refurbishment. The challenge was to create a slope that would not be too daunting for less skilled snowsporter but still provided enough shapes to

maintain interest for progression. Club members were consulted at every stage to ensure that the slope design would meet all the requirements set out.

## Facts and features

Overall budget	£600,000
Nursery slope	1600m <sup>2</sup> of Snowflex®
Fun Park	650m <sup>2</sup> of Snowflex®
Features included	1 x Fun Box 1 x Big Air jump 1 x Elliptical Quarter Pipe featuring hip and curved wall
Intermediate slope	1650m <sup>2</sup> of Snowflex® featuring waves, rollers and banked walls
Uplifts	5 x Sun Kid travellers installed
Project duration	18 months over 3 phases

## Customer conclusion

*"We are pleased and very proud to have created a national sporting development, which will continue to provide its members and the general public with a superb ski & snowboard centre and will be the envy of many other clubs throughout the UK .....The introduction of Snowflex® to our slopes will allow newcomers to come and learn to ski & board in a friendly and safe environment."*

Barry Spouge - Norfolk Ski Club Chairman



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# Kendal Ski Club

## The customer

Kendal ski club is the UK's most successful club of its type. Started in 1984 by a group of enthusiasts it became the first slope in the UK to completely convert to Snowflex® in 1997. In 2003 the Club decided to expand the facilities to meet the increasing demand they had created. Consultation with Briton engineering decided that the most beneficial prospect would be to expand the intermediate facilities.

## The brief

To create an intermediate area to cater for skiers and snowboarders between beginner and advanced level. The challenge was complicated by the limited amount of space available. The new slope would need to be an extension to the existing slope rather than starting afresh. However, the gradient of the existing slope would be too steep for intermediates, which meant Briton needed to come up with a unique solution to the problem.

## Our solution

Briton's experience and advanced design technology was drawn upon to create a slope which would be suitable for less experienced intermediate slope users but would also provide some challenge to more able snowsports enthusiasts.

A unique trail was designed into the slope which would create a "zigzag" path to a shallow gradient suitable for less able slope users. Dare devils would be able to increase their speed by taking a more direct run down the slope. The zigzag would take up the top steep section of the slope and would then join the existing nursery slope, which was also to be expanded to increase capacity.

The slope was then covered in dark green Snowflex®, which was specially produced, to blend with the environment due to local planning restrictions.

## Facts and features

Original slope	2350m <sup>2</sup>
Existing Uplifts	1 x Briton Button® 1 x Briton QueueDodger®
Freestyle	1 x Big Air jump 1 x Little Air gap jump 1 x Curved Quarter Pipe 1 x Wave jump
Extension	Overall budget £155,000 650m <sup>2</sup> Snowflex® Unique Zigzag trail
Existing Uplifts	1 x Briton Button®
Project duration	8 weeks

## Customer conclusion

*"The continuing development work by Kendal Ski Club together with Briton Engineering Developments will keep the club at the forefront of snowsports"*

John Larkin - Kendal Ski Club Director



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# Dorset Snowsports Centre

## Customer

Dorset Snowsports Centre has been the centrepiece of Warmwell holiday resort for more than 15 years. The ski slope was originally covered with mesh matting, which was then replaced with a carpet material a few years ago. This too was wholly inadequate in attracting customers.

In 2005 the holiday park was taken over by Parkdean Holidays who decided that the existing slope surface did not work. The time had come for change to turn the slope into a real centrepiece attraction.

## The brief

Briton was tasked with transforming the old Warmwell ski slope, which was an unsuccessful dry slope, into the Dorset Snowsports Centre, a successful all season snowsports attraction

The slope needed to be re-designed to incorporate a surface and features that modern skiers and snowboarders demand in order to maintain interest. It was also important not to lose sight of the beginner's needs. The challenge was to create a unique design in a very small area which would satisfy the tourist market and would also bring back a "core" of snowsports time and again.

## Our solution

Briton needed a "fresh canvas" to re-sculpt to their daring and exacting specifications. The first job was to dispose of the old surface to make way for the new works.

With careful planning and consultation it was decided that the slope would be split into three areas. The beginners slope would be addressed first, enabling the centre to partially open before the official open day. The new nursery slope was redesigned and sculpted to provide a more suitable profile for teaching.

The main slope was redesigned to cater for everyone from nervous novices to extreme experts and freestyle fanatics.

The left side of the main slope was to have a small "roller" which would cater for open practice and lessons.

The right side would cater for the more experienced snowsportsers and would feature a jump zone with a "fun box" style jump, a big air kicker and a box rail to drop off - each landing in a carefully designed landing bowl. Also included was an elliptical quarter pipe which would be located at the bottom of the slope.

The new slope also features an additional Briton QueueDodger® lift to take slope users up a further 3 metres vertical in order to gain more speed for the freestyle features. The slope's original Briton Button® lift was re-commissioned to service the main slope with two mid lift get off points incorporated to cater for less able snowsportsers.

The whole slope was then covered with the complete Snowflex® system.

## Facts and features

Overall budget £435,000

Snowflex quantity 2500m<sup>2</sup>

Nursery slope 300m<sup>2</sup>

Existing Uplift  
1 x Briton Button® tow  
2 x Briton QueueDodger®

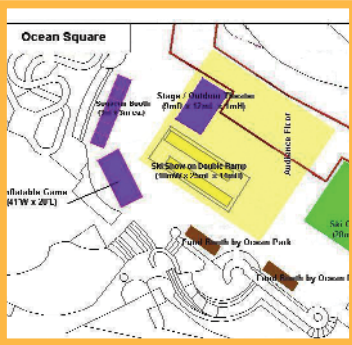
Freestyle features  
1 x Fun Box jump  
1 x Big Air gap jump  
1 x Elliptical Quarter Pipe  
1 x Box rail  
1 x Rainbow rail

Project duration 75 days

## Customer conclusion

*"Snowsports have always had massive potential. We knew the market was screaming out for it and we had no doubt that it would be massively popular as long as we could provide facilities good enough for the mainstream public. What we have here is the best all season snowsports facility in the south of England".*

Janice Knight - Park Director



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# Ocean Park, Hong Kong

## Customer

Bruno Künzli's World-Class Ski Ramp Show.

## The brief

The brief was to create a temporary winter games facility in the centre of Hong Kong's Ocean Park. This was to include ski jumps and snowboard jumps for display purposes and two different types of "tubing runs" for the paying public.

## Our solution

Briton Engineering Developments designed all the breathtaking jumps and features. 1000m<sup>2</sup> of Snowflex® was shipped out to Hong Kong. Briton's skilled installation engineers were then sent out to install the Snowflex on the different slopes. Some slopes were so steep that the installation team had to abseil whilst installing the Snowflex®.

The tubing slopes were then opened to the public as Bruno Künzli's display team impressed audiences with death defying routines on the specially constructed ski and snowboard jumps.

The project took only two weeks to complete once the installation team was on site. The slopes were left in place over the Christmas period and removed 4 weeks later, in the New Year.

## Facts and features

Overall budget £40,000

4 exhibition slopes 1000m<sup>2</sup> Snowflex installed

Features included Freestyle ski jump to air bag  
Freestyle snowboard jump to air bag  
Junior Tube Run  
Adrenaline Tube Run

Project duration 2 weeks installation and  
1 week decommissioning

## Customer conclusion

*"...these are amazing Snowflex slopes. You can't get closer to winter action anywhere else in Hong Kong"*  
Ocean park spokesperson