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feature

Breakthroughs in Design

cover interview

Anthony Dunne & Fiona Raby

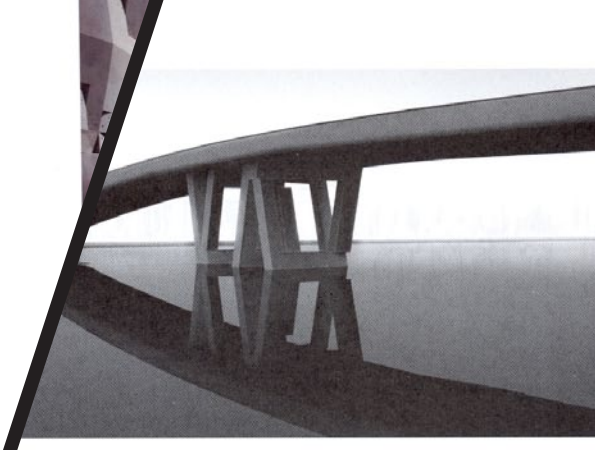
特集

デザインのブレークスルー

表紙インタビュー

アンソニー・ダン
&
フィオナ・レイビー

クアドロール・ウォール
QuaDror wall.



多様な用途とスケールに対応する構造ユニッ

スタジオ・ドロール「クアド

QuaDror by Studio Dror——A structural

クアドロール開発のきっかけとなった
スワロフスキーのフロアシャンデリア。
The Swarovski floor chandelier that inspired development of QuaDror.

シンプルであるが

ニューヨークを拠
開発した「クアドロ
ティションであり
やテーブルを支
用途を持つシ
クアドロー
するのは、
L字型パー
れぞれが
として
平らな
には
異なったパート
性を探求していき
語る。このシステム
用方法などで16のパ
地域や国ごとにライ
法によって、応用を広

applicability derives from

eveloped by Studio Dror based in New
s a system with diverse uses, such as
elements, partitions, and trestles that
ort tables or bridges.
Dror has an extremely simple configura-
our identical L-shaped pieces. A special ge-
y allows those L-shaped pieces to interlock
function together as an autonomous structur-
ement. Depending on the material used and
thickness, QuaDror can be stored and trans-
rted as a flat object and opened up into a three
imensional structure to accomplish its purpose.
Dror Benshetrit of Studio Dror says structural
engineers were skeptical when he first showed
them this system. They thought something had
to be missing, and were very surprised when its
strength was verified through computer analysis.
Benshetrit says he got the idea when he was
designing a lamp for Swarovski. He was searching
for a way to get two small wooden square frames
to function as a structural element. Benshetrit was
looking for a lamp design that wouldn't divide a
space into inside and outside. After attempting
various solutions, he finally came upon a geom-
etry in which the corners of the frame interlocked
and supported each other. Although the lamp
was small—it's a cubic form with one meter high
sides—as Benshetrit proceeded to analyze the sys-
tem with the structural engineers he realized that
it had hundreds of applications, from small objects
to large structural elements.
Large QuaDror elements, for example, can be
used as sound barriers along highways, in which
case a pin-shaped element is necessary to secure
neighboring units to each other. They can also be
employed as support trestles for bridges. When
the elements are made of concrete or steel, a cast-
ing method is used in their manufacture. Other
applications most certainly include partitions or
decorative walls for rooms. The pieces can also be
cut from sheets of thin material.

Emergency housing in disaster areas

Benshetrit is most excited about the use of QuaDror
in emergency housing in disaster areas. A sim-
ple house can be built quickly by setting up two
QuaDror elements, placing wall material on the in-
side and covering the top with roofing material.
Although Studio Dror has emergency housing
projects underway in earthquake devastated Haiti,
as of late March at the time of the reporting, Ben-
shetrit said he was also searching for a way to help
victims of the Tohoku Earthquake. Interestingly,
Benshetrit's QuaDror Home kit is compact enough
that 1,750 of them can be transported in a single
forty-foot container.
QuaDror's expandability, both in terms of scale
and usefulness to society, is a major leap for Stu-
dio Dror. QuaDror can become a considerable plus
to society by serving as infrastructure at larger
scales and by fulfilling its purpose conveniently
and with a minimum use of materials. According
to Benshetrit, it's for that very reason he wants to
enter into unprecedented partnerships and ex-
plore the possibilities of QuaDror. (Text by Noriko
Takiguchi)

ドロール・ベンシェトリット
Dror Benshetrit

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QuaDror

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