

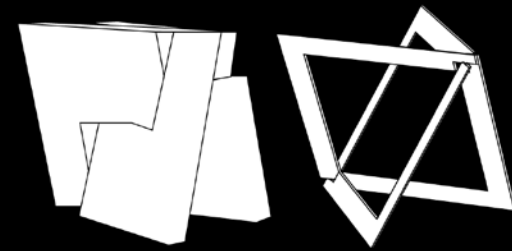
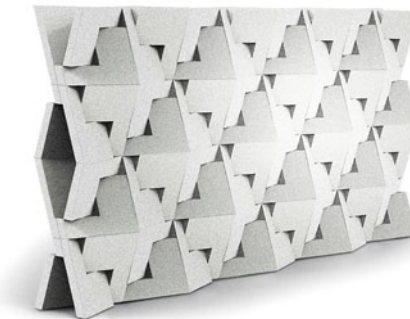
Dror

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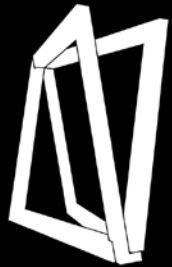
PRESS RELEASE
FEBRUARY 2011

QuaDrorTM system

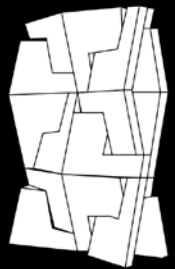
a new structural joint



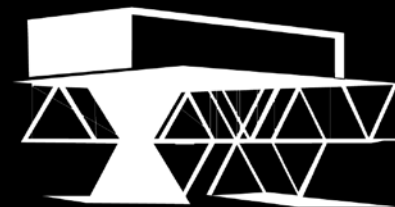
QuaDror
application



Trestle
from bridge to table



Dividing
from road to room



Aggregation
shelters of all kinds

Dror

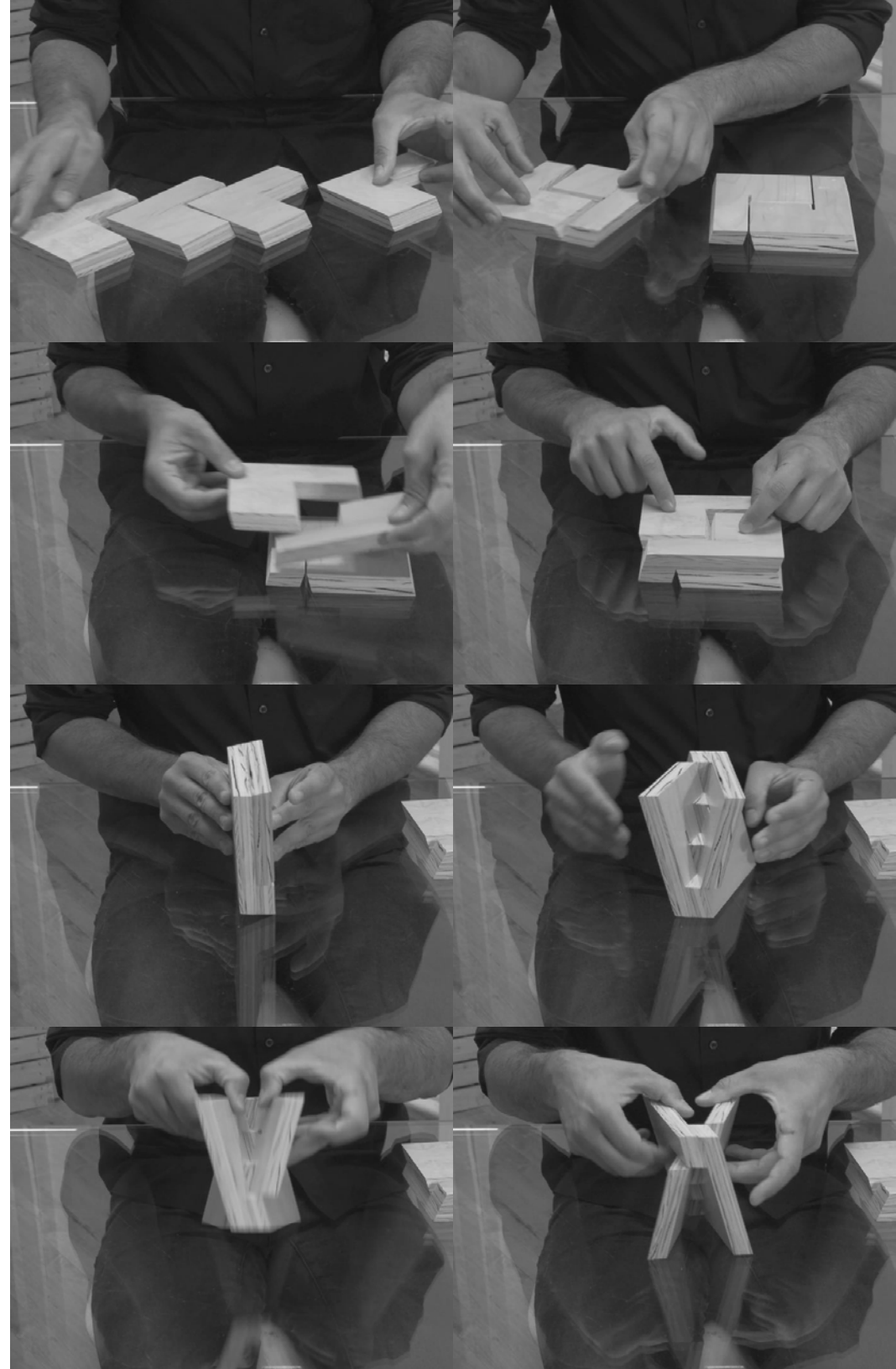
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PRESS RELEASE
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UNVEILING OF QuaDror[™] at **DESIGN INDABA 2011** by Dror Benshetrit

February 23, 2011: New York—Design studio Dror is looking forward to unveiling the design discovery of 'QuaDror' at the [Design Indaba](#) conference from February 23-25 in Cape Town, South Africa. 'QuaDror' is a space truss geometry, invented and patented by Dror Benshetrit, that utilizes unparalleled structural efficiency and introduces manifold design initiatives.

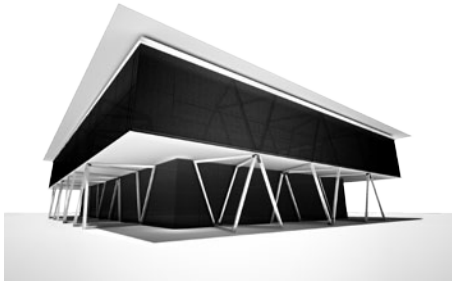
Four years ago while experimenting in the workshop, Dror discovered a serendipitous geometry. Initially inspired by the aesthetic and flexibility of this versatile form, he soon realized the structural integrity of the interlocking members.





Clockwise from top-left: Concrete QuaDror block,
QuaDror wall, QuaDror table, QuaDror highway sound
barrier
Left: QuaDror bridge

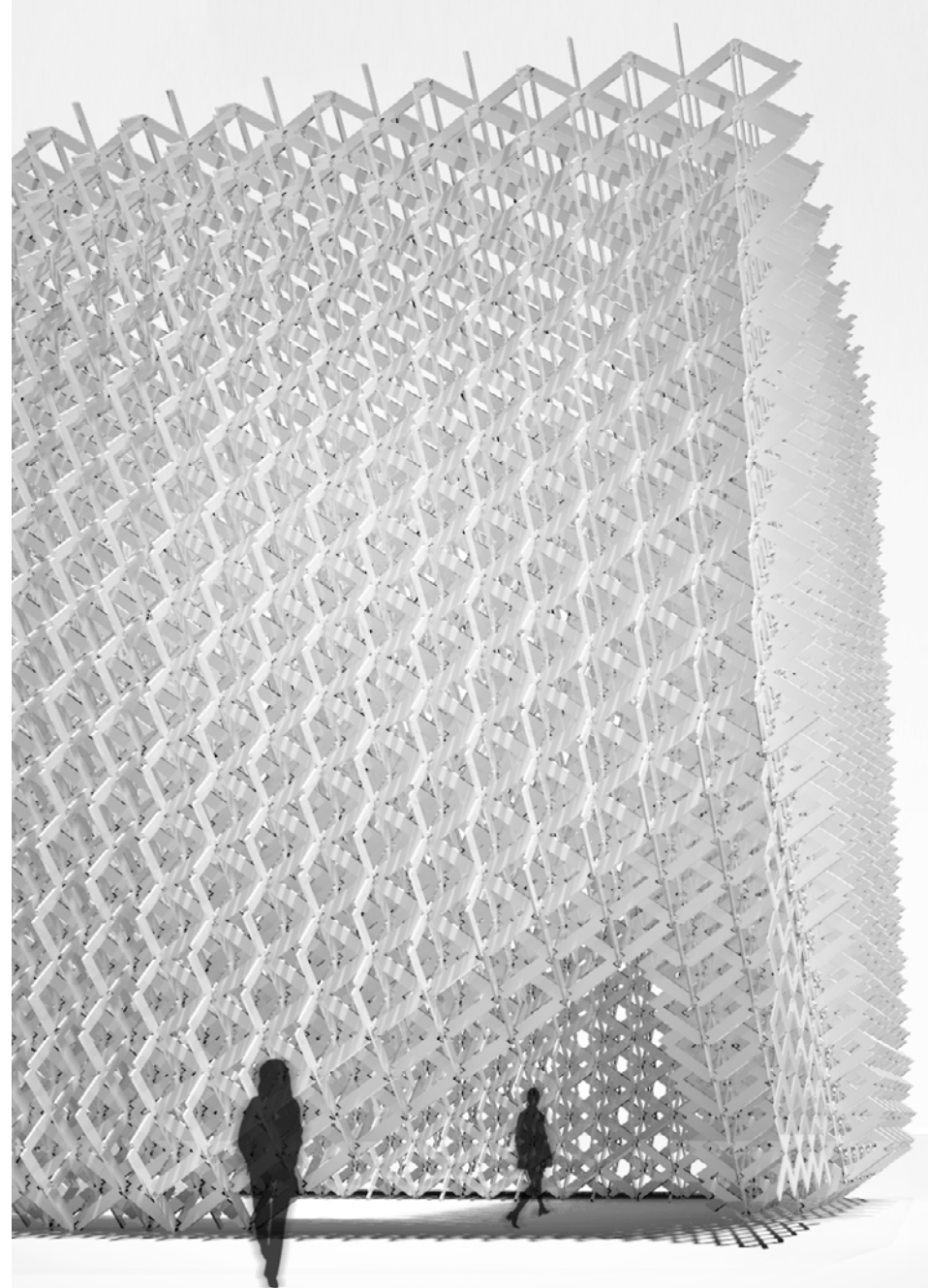
Dror then embarked on four years of inspired and diligent investigations. Working in a collaborative and experimental environment, the team developed a unique structure that can adapt to a variety of conditions and configurations. These range from product design, trestle structures, dwellings, dividing walls, sound barriers, and more. Some applications take advantage of its load-bearing capabilities, while others capitalize on its acoustic properties, ease of manufacturing, collapsibility and energy performance.



Various buildings using QuaDror geometry

Boosted by a team of experts, the studio conducted inter-disciplinary research and rigorous analysis, to soon discover the overwhelming strength of the geometry coming from the most simplistic physical force. The geometry revealed five development direction for applications with endless possibilities; dividing, dwelling, trestle, fenestration and artistic installation. These enabled designs reflect an ever-changing world where contextual factors and technological resources are shifting definitions of architecture, design, and the traditional boundaries between disciplines.

“Our goal is to inspire change. Working with creative and innovative experts from various fields, we aim to share and implement this geometry in urban design, architecture, philanthropic work, and public art. When realizing that the system could potentially bring a groundbreaking solution to the global issue of habitat, we were eager to complete our experimentations and share this discovery with the world.” says Dror.

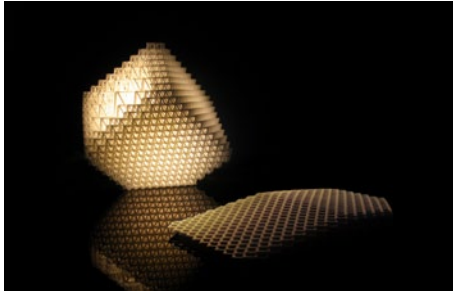




The QuaDror universal joint

The world's homeless population increases by approximately 100,000 every day (Source: Kissick et al. 2006). The Kissick et al. institute forecasts that 40% of the world's population will need access to housing by 2030. We are gathering cross-disciplinary experts to introduce the QuaDror Home to these populations in need. We are enthused to estimate that 1750 QuaDror Homes (i.e. 1750 QuaDror kits) can be shipped in one 40-foot container. The QuaDror Home structure is based on four identical L-shaped pieces of various embodied elements assembled with the help of the QuaDror universal joints. The envelope and the beams are made of local materials, which allow for integrating a cultural and ecological context in the final design of the building. The QuaDror Home Kit provides the tools, the QuaDror universal joints and a guide for an easy assembly structure. Due to its compact geometry and collapsibility, the lightweight shipping materials, and the use of local materials, the QuaDror Home is both cost-effective and easily shippable.





Volume.MGX by Materialise



QuaDror watercolor painting for Guggenheim

QuaDror provides a tangible and pragmatic design solution in an efficient and didactic way. The studio is in the process of manufacturing the QuaDror Home, and anticipates constructing the first QuaDror in Sierra Leone and Brazil by 2012. (More information to come soon)

"We are interested in the transformative power of design as an interdependent response to social, economical and ecological matters. Our work is the interactive process of inventing and providing (infra)structure and comprehensive systems to improve our ways of living. In effect, we believe that designers and users become co-creators."

—Dror Benshetrit

The specifications of each individual project will be revealed with their respective debuts. Here is a quick summary of the main advantages:

- Dividing walls: from interior walls to highway sound barriers, the QuaDror system provides the same tremendous stability as a solid cube, while using only 20% of the volume. A retaining wall would be able to withstand hurricane winds with no additional supports, while also exhibiting excellent acoustic properties.
- Architectural systems: using typical off-the-shelf beams with QuaDror joint and static joints allows for incredible speed of construction, and a complete separation of the structure and exterior cladding.

Dror is looking forward to collaborating with fellow innovators in design and architecture to investigate the QuaDror geometry further, developing the current applications and cultivating imaginations for future growth.

For more in-depth information about QuaDror,
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Volume for Museum
of Arts and Design

QuaDror.
PATENT PENDING