We design, develop and deliver value-engineered solutions to the humanitarian sector.
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At a glance

Sector experts
• Shelter, aid and relief industry leader with 45 years’ experience
• Innovators through value-engineering
• We co-create new solutions in partnership with clients
• Specialized in product customization

Committed
• We have a small committed, multicultural team
• We are flexible and provide reliable support
• We keep the end-users of our products in mind:
  • From refugee to aid worker, from patient to doctor
  • Our CSR agenda is integrated in our business model

Manufacturing excellence
• We supply high-quality, cost-efficient products
• Strategic partnership with our manufacturing arm
• Independent quality control and assurance team

Prepared
• Rapid response strategy in case of emergencies
• We conduct field assessments to understand real needs
• Emergency stock for immediate mobilization
• Efficient delivery by in-house logistics team.
NRS Relief is a purpose-driven company that designs, develops and delivers value-engineered solutions to the humanitarian sector. We create life-improving products in partnership with our clients, such as UN Agencies, international organizations and NGOs worldwide. We supply relief essentials, shelter solutions, multipurpose tents and mobile storage units, as well as customized products and services.

To make this vision a reality, we rely on our lean, multicultural team of 15 passionate experts who are committed to our purpose. Based in Dubai, the United Arab Emirates, we are part of a strategic and thriving humanitarian community. We never lose sight of our clients’ needs, understanding the unpredictable and demanding environment we operate in. The emergency context of humanitarian operations requires our dedicated staff to be ready to respond, 24/7. They are capable of responding quickly and efficiently in any emergency situation.

The beneficiaries of our products – vulnerable populations affected by conflict or natural disasters – are at the heart of the development of our range of solutions. We align our capacity as value engineering experts with the product innovation needs of our clients. This enables us to co-create solutions that are fit-for-purpose, high quality and can withstand the extreme weather conditions. Moreover, our in-house product design team is highly specialized in customizing our solutions. We can tailor aid support structures to specific needs. For instance, upon request we modify structures for medical purposes, or extend our product range for large-scale operations.

Once the goods are ready to be dispatched, our in-house logistics team takes over, recognizing that 80% of humanitarian action is logistics. To us, no destination is too difficult. We will work on the most suitable and efficient mode of transport, which can be by air, sea, road or a combination thereof. Last year, we have loaded approximately 1250 containers with relief items and shelter solutions, totaling 414 shipments which equal 27,900 tons of goods.

As the market leader in our sector, we are trusted by the world’s leading humanitarian actors such as UNHCR, UNICEF, WFP, ICRC/IFRC and many more. As a key player, it is our duty to embrace responsible business practices, and set a benchmark for others in the humanitarian supply chain. Therefore, we apply a principled approach to the Sustainable Development Goals and are signatory to the UN Global Compact. We aim to minimize our ecological footprint and have launched multiple award-winning CSR campaigns to advocate for a more sustainable supply chain.

It is our responsibility to provide dignified solutions to people who will find a temporary home in our family shelters, children that will be educated in our multipurpose tents, or the doctors that will treat patients in our medical structures. We map our impact using available data, acknowledging that we operate in a complex supply chain and that in most cases we are not responsible for the last-mile distribution. With the aim to provide insight in the product movement, we track shipments, monitor the geographical spread of our items and research the context in which the solutions are deployed. Last year, we sold 4.3 million relief essentials to our clients, impacting 7.7 million beneficiaries who are living under challenging circumstances.
We have been an active partner in major humanitarian response operations such as the Rohingya crisis, the earthquake response in Indonesia, cyclone-stricken Mozambique and recently the post-hurricane Dorian emergency response in Bahamas.

Closer to home in the Middle East, we have dispatched millions of relief items to countries affected by the various crisis hotspots in the region. Many of our shelters and NFIs have been deployed in countries hosting millions of Syrian refugees, such as Jordan, Lebanon and Turkey. Over 600,000 items have been delivered to conflict-ridden Yemen, one of the poorest countries in the world facing a humanitarian catastrophe of unprecedented nature.

The majority of the goods supplied to the African continent – 1.4 million items, are delivered to Kenya, Ethiopia and Uganda. Each of these countries is taking on serious challenges, ranging from displacement, conflict, as well as forced migration caused by environmental degradation.

On average, every day more than three containers full of shelter solutions and relief items left the production site last year. In 2018-2019 approximately 1,250 containers have been loaded with aid goods, totaling 414 shipments, equaling 27,900 tons of goods. The majority of the shipments reached their destinations by sea and 86 deliveries were sent by air.

As part of our commitment to provide relevant information, we have introduced a series of country profiles on our website www.nrsrelief.com, highlighting the humanitarian emergencies where the products that we supplied are deployed from 2017 onwards.

We operate in a complex supply chain, yet we aim to provide insight on the road ‘from design to deployment’.

There is a story behind every shipment, and we illustrate how our team has responded to client requests. This evidence-based contribution provides valuable information about the current pressures and challenges on the emergency response system, as well as insight into the social impact of the products we supply.

Impact 2018-2019

We are trusted by 47 global clients, including UNHCR, UNICEF, IOM, WFP, MSF, ICRC/IFRC.

We supplied 4.3 million products in ’18-’19, including family shelters, multipurpose tents, mobile storage units and a wide range of core relief items.

These millions of products have a meaningful impact on the lives of 7.7 million people living under challenging circumstances.

Country profiles online

In this year we supplied 4.3 million products
Value engineering in the humanitarian context

Developing new shelter solutions and relief items is part of our everyday work. In the humanitarian sector this process requires a specialist approach, respecting the needs of crisis-affected populations. NRS Relief relies on dedicated design and engineering professionals who work closely with our manufacturing arm. This team has embraced the principles of value engineering, and at the same time applies a beneficiary-centered design approach.

Our design team is headed by Frank Merks, Head of Design, Product development & Engineering, who works on the design and development of new and existing products. In this vital role he works closely with internal stakeholders, such as the business development team, the factory, as well as our clients and suppliers. We aim to develop the best possible products for beneficiaries. To achieve this mission, we bridge information from the field with our technical knowledge.

Designing for humanitarian settings

Humanitarian engineering is a niche field of expertise where engineering skills are applied for humanitarian aid purposes. It is defined as ‘design under constraints to directly improve the wellbeing of underserved populations, where constraints are not just physical and economic, but also environmental, cultural, and ethical.’

In simpler terms, the shelter solutions or relief essentials need to be fit-for-purpose. They must be durable and perform under extremely harsh weather conditions. At the same time, all the products are designed with the people and their cultural needs in mind. This beneficiary perspective fits within the framework of a rights-based approach. The items are not simple consumables but contribute to protecting the universal rights to human dignity and family life to continue especially in hot weather.

Value engineering

This beneficiary perspective fits within the framework of a rights-based approach. The items are not simple consumables but contribute to protecting the universal rights to human dignity and family life to continue especially in hot weather.

In product development process, it is critical to balance cost with function. Therefore, the way we work is driven by value engineering principles. Value engineering is used to solve problems and identify and eliminate unwanted costs while improving function and quality. The aim is to increase the value of our aid solutions, meeting product performance standards at the lowest possible price. All items are procured with public funds. Subsequently, aid actors intend to use their budgets wisely, yet not wanting to compromise on essential quality standards to ensure the dignity of beneficiaries.

This balancing act has challenged us to identify improvement opportunities before assessing them against a cost-benefit ratio. It is about taking a birds-eye view to be cost-effective and at the same time meeting the desired design objectives. It is a creative, team-based approach that generates alternatives to material selection, configurations of designs, reduction of environmental impacts, and so on.

Value engineering family tents

An example of this approach is the development recently introduced dome-shaped family tents, mainly made of polyethylene (PE) materials. You might think, polyethylene, is that not plastic material polluting land and water across the globe? The answer is not that simple. The current family tents that have been deployed for decades and many other tents used in humanitarian relief are made of poly-cotton, because it is durable, affordable and comfortable especially in hot weather.

Over the last decade, humanitarian crises have geographically expanded from primarily hot and hot-humid climate zones to cold and wet climate zones as well. For these types of weather conditions, the current poly-cotton family tent is less suitable. That is why UNHCR and ICRC, in cooperation with NRS Relief and our competitors have developed a new family tent performing in all climate zones.

For these tents, we chose polyethylene (PE) fabrics. These materials best meet our environmental goals to reduce water and energy consumption, viewed from the total production and life-cycle perspective of the tents. PE fabrics also allow us to create free-standing, dome-shaped tents that demonstrate excellent performance in harsh weather conditions. Moreover, they provide more comfort for the beneficiaries. With PE fabrics we can engineer properties such as UV resistance, flame resistance and heat build-up embedded in the fabrics instead of coatings and use fabrication techniques such as welding. Lastly, once the tents reach their end-of-life, they can be recycled into other useful products.

This tangible example showcases how we can combine the principles of humanitarian and value-based engineering to make a difference. Innovation and creativity are about big and small ideas, about teamwork and never forgetting about the purpose of the work we do - meaningfully improving the lives of displaced people.
Product customization to meet exact needs

Even small changes can make a world of difference

Humanitarian crises and natural disasters are characterized by unpredictability, uniqueness, and complexity, posing challenges to develop appropriate response operations. Our core objective is to offer a wide range of products that meet the critical quality standards set by leading UN and aid agencies. That said, apart from our main product range we can also tailor to specific customization requests. Our in-house product development team is well-equipped to work hand-in-hand with clients to accommodate modification needs.

Small changes can make a big difference. By modifying product designs tailored to specific climates, cultural norms and geographical settings, we can improve the beneficiary-experience. Our clients are able to provide valuable input about the people who will use the items, the cultural norms of the community and the climate conditions. If we know, for instance, that a shipment of Rex Halls – our mobile storage units - will be directly dispatched to a tropical location, we can provide a waterproof hood over the air vent. This small, but effective change guarantees to keep stored goods dry during heavy rains yet ensuring the continuous flow of air.

In the same vein, aid practitioners can give priceless feedback to improve the functionality of certain tent structures or relief items. A good example is the way we modified the LegendMEDI. This medical tent structure was designed in response to the Ebola epidemic in 2014 and is suitable for the treatment of patients of hemorrhagic fevers. Our client, an international disaster relief organization assisting Ebola-stricken communities, asked us to make structural design changes to enable safe communication between patients and loved ones. At the same time, we introduced an improved rainproof awning, which doubles as a high-quality shade net.

Breaking barriers, building trust

The current Ebola outbreak in the DRC began in August 2018 and has seen over 3,000 cases with more than 2,000 recorded deaths. It takes place against a backdrop of ongoing conflict, but complicating factors include mistrust and community resistance towards treatment and health workers. To break these barriers, our client suggested to redesign the LegendMEDI structure to allow the community members to safely interact with patients. This will curb the spread of fear and panic and provide dignity. To achieve this, the doors and windows were rearranged to create two sections: One side for quarantined patients who can safely communicate with visitors through the extra-large windows. The opposite side is designated to medical staff, who can carry out their duties uninterrupted. Health workers can enter the patient room through the doors in the disinfected area.

Medical personnel caring for patients of the deadly virus work under tough conditions, mentally and physically. The extreme weather, including heat and heavy rains, complicates this work. Ebola responders shared their desire to minimize the time in the sun, but also protecting from the rain. Their full protective suits are very hot, but at the same time the hoods are porous, and rainwater can wash away the disinfectant. To improve the functionality of the protective suits, our value engineering team fitted A-shape poles to provide better access and strengthen the structure, catering towards the needs of the client and ultimately, the beneficiaries.

More than just a bucket

A final value engineering example showcases the big impact small design changes can bring. In partnership with Oxfam we enhanced the design of the existing water bucket, introducing the Jerry Bucket. The design upgrade of the 14 L bucket incorporated three key design considerations to improve hygiene: The new lid is tightly fitted and stays on the bucket body to ensure the container is only used for drinking water rather than washing clothes, feeding livestock, etc. Secondly, the large lid opening minimizes spillage when filling from a pump and allows easy inside cleaning. Lastly, the integrated tap ensures that water can be safely distributed without putting dirty receptacles into the water. Furthermore, the durable Jerry Bucket has a smooth and spike-free base for comfortable head carrying. All in all, seemingly small amendments, significantly improving the user experience.
We believe that sustainable business makes smart business. For us, embracing a sustainable humanitarian supply chain is a way of honoring our purpose as a relief supplier. We see purpose-driven sustainability as our contribution towards social, environmental as well as economic progress.

With a record-high number of displaced people worldwide caused by conflict and natural disasters, millions of relief items are distributed to the affected populations. Many of us are unaware of the production effort it takes to address these emergencies, and how responding to crises does not exempt the humanitarian sector from its social and environmental impact on the planet. We have taken a critical look inwards and have further invested in the sustainability of our manufacturing processes and supply chain, prioritizing transparency. This sustainability journey is taken together with our strategic production partner in Pakistan, H. Sheikh Noor-ud-Din & Sons.

Our strong CSR agenda shapes our approach to business. This is why we have aligned our business operations with the 17 Sustainable Development Goals (SDGs), a set of globally agreed targets to end poverty, protect the planet, and ensure prosperity for all. We strive to advance the SDGs in every domain of our operations by creating and implementing CSR-driven initiatives that highlight the importance of a sustainable humanitarian supply chain while raising awareness for refugees and displaced people worldwide.

Working more closely with the SDGs and leveraging them strategically to shape our agenda and set targets, we have zoomed into SDG 12 – Responsible Production and Consumption. Half of the targets under SDG 12 speak directly to humanitarian suppliers. We have worked hand-in-hand with our manufacturing arm and we have integrated them in our production strategy, such as Efficient use of natural resources; Reduce, recycle and reuse; Sustainability reporting and Sustainable procurement.

Economic responsibilities
We are committed to pioneering new solutions, sustainably creating fit-for-purpose products through value-engineering. We focus on financial sustainability and pledge to continuously expand our portfolio of products and services. At the same time, as the industry leader we strive to progressively grow our business to ensure economic empowerment in our supply chain. Our vision is that all stakeholders should benefit from the life-improving products that we develop and design - from factory to the field.

Social responsibilities
We focus on creating a safe, diverse, merit-based working environment that values teamwork yet allows for individual growth. We actively engage with the vibrant humanitarian community in Dubai and raise awareness for social causes such as the refugee crisis and women’s empowerment. At the same time, we support our manufacturing arm in Pakistan with their community investment programs, aimed at building community resilience through improved health care services and educational opportunities. We also acknowledge the social impact of our products on the end-user – from refugee to aid worker. To honor this purpose, we develop and design products that respect beneficiaries’ true needs and support the acceleration of the sustainable development goals.

Environmental responsibilities
Minimizing our ecological footprint is an incentive rather than a burdensome exercise in compliance. We are committed to reducing emissions and waste, while seeking to recycle and reuse across the production processes wherever possible. We do so in close collaboration with our manufacturing arm as well as by launching green initiatives in our Dubai office.
Bag of Hope carries great potential

It all started with a flash of inspiration to make a simple bag out of our tent fabric offcuts, which we called a #TentTote. Fast forward a one year, we have created thousands of ‘bags of hope’ that carry important messages of sustainability, circular economy, zero-waste policy and the empowerment of disadvantaged communities. Our durable totes, shopper bags and backpacks come in all shapes and forms and even allow our clients, who normally buy shelter solutions or relief items, to fundraise for their causes.

In the next phase, we tapped into the talent of fashion students to raise awareness during World Refugee Day in 2019. We partnered with the Dubai College of Fashion & Design and International Humanitarian City to host a sustainable fashion show, showcasing fashionable bags made from upcycled tents by four talented students. This collaboration was aimed at raising refugee awareness, promoting a sustainable supply chain and creating social impact by leveraging the power of fashion.

Buy a bag. Give a future.

In the same vein, our CSR team pitched the tent tote idea to the UNICEF team in Dubai earlier this year. It was well-received as UNICEF recognized its potential and introduced the ‘bag of hope’ concept to its fundraising partner, Carrefour. Managed by Majid Al Futtaim in the UAE, Carrefour is one of the biggest chains of supermarkets and hypermarkets in the world. The ‘bag of hope’ was picked up as a fundraising tool as part of an MoU signed between Carrefour and UNICEF, aimed at providing education to more than 100,000 out-of-school children in the region. Proceeds from the sale of each bag will be directed to the cause. So, this simple shopping bag can carry quite a heavy load, literally and figuratively. Literally, because they are made from exceptionally strong tent fabric that normally protects displaced families, but also proverbially because enabling children to go to school is invaluable and essential for sustainable development of the region. Each bag catalyzes hope for a child’s better future.

A tradition of collaboration for impact

NRS Relief follows a long-standing tradition of collaborating for impact. Our first project was launched in 2017, when we partnered with renowned fashion designer Helen Storey of London College of Fashion to empower Syrian girls in Zaatari refugee camp by designing #LoveCoats made from thermal blankets.

Our team embraces its responsibility to create meaningful impact in the lives of affected communities our clients cater to. Importantly, we recognize that this is only the first link in the chain of the impact we can create as the leading supplier in the humanitarian sector.

Therefore, all initiatives are reflective of our 360-degree approach to sustainability and we aim at positive change across the entire humanitarian supply chain, taking into account environmental, social and financial factors.
Shelter is far more than a roof and four walls

Shelter is a basic human need and is critical for survival in most disasters. At NRS Relief, we have developed shelter solutions for over 45 years, supplying refugee tents, multipurpose shelters, core relief items such as tarpaulins, and mobile storage units to UN agencies, international NGOs and bilateral donors. Our aim is to offer cost-effective, fit-for-purpose quality shelters and aid essentials, keeping the real needs of beneficiaries in mind.

To achieve this objective, we strive to provide clients with essential information about our product range, focusing on the technical specifications, innovations and modes of applications.

Every humanitarian crisis requires a unique response, taking the cultural and geographical context into consideration. The following pages, 18-19, presents a detailed Shelter matrix to assist procurement officers and senior managers working in the humanitarian community to make informed decisions, ensuring the most suitable product is sourced to fulfill the needs of each specific situation.

The humanitarian landscape is shifting rapidly, and new solutions need to be explored to solve the biggest crisis since the second World War. This includes a new way of thinking on how to accommodate displaced populations, acknowledging the socio-political context, the type and phase of the response.

In 2018 every minute 25 people were forced to flee, five times more than a decade earlier. These people have left their homes in an instant due to floods, earthquakes, cyclones or conflicts, leaving them powerless.

Families who have been impacted by such events always need sheltering. We recognize that a shelter is much more than a roof and walls. It is a temporary home, critical for survival and security.

Shelter assistance stretches far beyond the distribution of tents. It allows households to recover; for instance by providing tarpaulins to fix damaged structures, or to create housing solutions using locally sourced materials (i.e. bamboo in combination with tarps). Equally important is the need to restore community buildings, such as temporary clinics, schools, offices and mobile warehousing.

We not only provide shelter and community solutions for every stage of a humanitarian response; we also offer technical assistance and advice to define the approach to sheltering and community resilience, for each specific situation. We conduct field assessments to understand the local environment and the challenges faced, such as logistical barriers or country-specific needs.
## Shelter Matrix

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Basics</th>
<th>Applications</th>
<th>Options</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GeoHome</strong></td>
<td>ICRC/IFRC/IOM</td>
<td>24</td>
<td>Y PE/alu Dome Opt</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Viva™ Family Tent</strong></td>
<td>UNHCR</td>
<td>23</td>
<td>Y PC/steel Ridge Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Viva™ Family Tent</strong></td>
<td>ICRC/IFRC/IOM</td>
<td>23</td>
<td>N PC/steel Ridge Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Viva™ Family Tent</strong></td>
<td>DFID/Save the Children</td>
<td>23</td>
<td>Y PC/steel Ridge Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Viva™ Family Tent</strong></td>
<td>For Viva™ Family Tents</td>
<td>-</td>
<td>Y - - N/A</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Emergency Shelter Kit</strong></td>
<td>DFID</td>
<td>16</td>
<td>Y PC/steel Ridge N/A</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Huggy™ 24</strong></td>
<td>UNICEF</td>
<td>24</td>
<td>Y PVC/alu House Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Huggy™ 42</strong></td>
<td>UNICEF</td>
<td>42</td>
<td>Y PVC/alu House Std</td>
<td>Std</td>
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<td>72</td>
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<tr>
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<td>Std</td>
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<td><strong>HuggyPRO 48</strong></td>
<td>UNICEF</td>
<td>48</td>
<td>Y PE/steel House Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>HuggyPRO 72</strong></td>
<td>UNICEF</td>
<td>72</td>
<td>Y PE/steel House Std</td>
<td>Std</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Dispensary Tent</strong></td>
<td>IFRC</td>
<td>27.5</td>
<td>N PC/alu House -</td>
<td>Std</td>
<td>Std</td>
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<tr>
<td><strong>Legend™ 33</strong></td>
<td>ICRC/IFRC/IOM</td>
<td>33</td>
<td>Cpt PC/alu House Std</td>
<td>Std</td>
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<tr>
<td><strong>Legend™ 45</strong></td>
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<td>Std</td>
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<tr>
<td><strong>LegendMEDI</strong></td>
<td>In compliance with MSF standards</td>
<td>45</td>
<td>Y PES/alu House Std</td>
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<td>Std</td>
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<tr>
<td><strong>Rex Hall 6.5 x 8m</strong></td>
<td>WFP Standard</td>
<td>52</td>
<td>Y PVC/alu Structure -</td>
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<td>Std</td>
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<tr>
<td><strong>Rex Hall 10 x 24m</strong></td>
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<td>Y PVC/alu Structure -</td>
<td>Std</td>
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<td><strong>Rex Hall 10 x 32m</strong></td>
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<td>Y PVC/alu Structure -</td>
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<td><strong>Rex Hall 10 x 36m</strong></td>
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<td>360</td>
<td>Y PVC/alu Structure -</td>
<td>Std</td>
<td>Std</td>
</tr>
</tbody>
</table>

PE - Polyethylene, PC - Poly cotton, Alu - Aluminum, PES - Polyester, PVC - Polyvinyl chloride
Core relief items

Our core relief items such as tarpaulins, blankets, water containers, sleeping mats and winterization kits serve to immediately alleviate the suffering of those in need in the aftermath of every crisis. Our fit-for-purpose aid essentials meet the highest technical standards of UN agencies and international aid organizations.

Emergency Shelter Kit
DFID Standard
• Fit-for-purpose shelter kit consisting of two 4 x 7 m plastic sheets (also available in 4 x 6 m), two 24 m long ropes and laminated instruction leaflet.
• Can be assembled with Peg & Pole Kit (DFID Standard).

Woven Flexible Tarpaulin
ICRC/IFRC/MSF/Oxfam Standard
• Fire retardant (optional)*, waterproof, rotproof and UV-resistant
• Highly recommended for family shelter protection.

Reinforced Plastic Tarpaulin
UNHCR/UNICEF Standard
• Fire retardant (optional)*, waterproof, rotproof and UV-resistant
• Highly recommended for family shelter protection.

Materials
190 gsm ±20 g/m² woven Polyethylene (HDPE) inner black fibres, warp x weft, laminated on both sides with LDPE coating, reinforced with six bands of 75 mm width woven black HDPE fibres fabric and coated outside.

Technical specifications
Width and length
Size / Sheet 4.00 m x 6.00 m ±1%
Size / Roll 4.00 m x 60.00 m ±1%
Weight Sheet without bands 190 gsm ±20 g under ISO 3801
Complete sheet with bands As above +10%
Total weight From min 187 gsm to 200 gsm max
Materials
190 gsm ±20 g/m² woven Polyethylene (HDPE) inner black fibres, warp x weft, laminated on both sides with LDPE coating, reinforced with six bands of 75 mm width woven black HDPE fibres fabric and coated outside.

Technical specifications
Width and length
Size / Sheet 4.00 m x 6.00 m ±1%
Size / Roll 4.00 m x 60.00 m ±1%
Weight 190 gsm ±20 g

Optional accessories
• Peg & Pole kit

- 2x Standing poles
- 2x Base plates
- 4x TR pegs

• Fire retardant (optional)*, waterproof, rotproof and UV-resistant
• Highly recommended for family shelter protection.

Technical specifications
Width and length
Size / Sheet 4.00 m x 6.00 m ±1%
Size / Roll 4.00 m x 60.00 m ±1%
Weight 190 gsm ±20 g

Materials
190 gsm ±20 g/m² woven Polyethylene (HDPE) inner black fibres, warp x weft, laminated on both sides with LDPE coating, reinforced with six bands of 75 mm width woven black HDPE fibres fabric and coated outside.

Waterproof, rotproof, UV-stabilized
Logo customizable
Aquatainer™ 10L Collapsible
UNHCR Standard

- Collapsible 10L water container with handle for carrying and storing clean drinking water
- With or without spigot
- UV-stabilized and impact-resistant
- Manufactured food grade low density polyethylene (LDPE) without toxic elements according to EN 1186-3-9 standards.

Aquatainer™ 20L Collapsible
ICRC/IFRC Standard

- Collapsible 20L water container with handle for carrying and storing clean drinking water
- With or without spigot
- UV-stabilized and impact-resistant
- Manufactured food grade low density polyethylene (LDPE) without toxic elements according to EN 1186-3-9 standards.

Pura™ 14L Water Bucket
ICRC/IFRC/UNHCR Standard

- Non-collapsible, heavy-duty, 14L plastic water bucket with tight-fitting lid, handle and attached clip-on cap
- UV-resistant and safe for transport and storage of safe drinking water
- Stackable and easy to carry by hand, available with or without spigot
- Ideal for family or individual drinking water container.

Pura™ 14L Water Bucket
ICRC/IFRC/UNHCR Standard

- Non-collapsible, heavy-duty, 14L plastic water bucket with tight-fitting lid, handle and attached clip-on cap
- UV-resistant and safe for transport and storage of safe drinking water
- Stackable and easy to carry by hand, available with or without spigot
- Ideal for family or individual drinking water container.

Jerry Bucket
Oxfam Standard

- Improved 14-litre bucket designed to act as a stackable safe water container (rather than as a multipurpose bucket) and to combat the alarming incidence of drinking water contamination
- A larger lid opening with a clip-on-cap allows better cleaning and easier filling from hand pumps
- Strong and durable quality for a long-life span in tough conditions
- An optional tap makes taking water from the container simple.
Low Thermal Synthetic Blanket
ICRC/IFRC Standard

- Minimum 1.5 TOG for indoor use, on a bed, in a house with heating facilities
- Mild temperature.

Technical specifications

| Total size | 1.50 m x 2.00 m |
| Weight | 200 gsm - 400 gsm |
| Thickness | 3.5 mm minimum |

Materials

100% virgin fibers from polyester or acrylic, knitted or woven, dry raised both sides, ISO C1833 on dry weight, color grey. Some cotton may be included in the yarns.

Medium Thermal Synthetic Blanket
UNHCR/UNICEF and ICRC/IFRC Standard

- Minimum 2.5 TOG for outdoor use and indoor use without artificial heat
- Mild and cold temperature.

Technical specifications

| Total size | 1.50 m x 2.00 m |
| Weight | 400 gsm - 700 gsm |
| Thickness | 3 mm minimum |

Materials

100% virgin fibers from polyester, knitted and dry raised on both sides, ISO C1833 on dry weight, grey.

High Thermal Synthetic Blanket
UNHCR/UNICEF and ICRC/IFRC Standard

- Minimum 4.0 TOG for indoor use and cold climates
- Cold temperature.

Technical specifications

| Total size | 1.50 m x 2.00 m |
| Weight | 500 gsm - 1000 gsm |
| Thickness | 9.5 mm minimum |

Materials

100% virgin fibers from polyester, knitted and dry raised on both sides, ISO C1833 on dry weight, grey.

Viva™ Stove
ICRC/IFRC/UNHCR Standard

- Simple yet efficient wood-burning steel stove and heater design adapted to fit a standard family tent and other type of shelter structures that have appropriate chimney opening.
- Made of steel, 2 mm thick
- Includes chimney outlet, 90 mm, and two elbows
- Adjustable tripod support painted in hot dip anti-rust paint, steel pipes and elbows made of galvanised steel
- Color: Steel color
- Weight of stove without accessories: 16 kg + 1 kg

Viva™ Stove
ICRC/IFRC/UNHCR Standard

- Multipurpose thermal mat that can be used in tents and in other sleeping environments
- Assembled in 3 layers with heavy-duty ribbon, strongly stitched around the mat’s entire perimeter
- Suitable for one adult/two children.

Viva™ Thermal Sleeping Mat
ICRC/IFRC/UNHCR Standard

- Waterproof, tearproof and material trim finish
- Mild temperature
- Suitable for one adult/two children.

Viva™ Stove
ICRC/IFRC/UNHCR Standard

- Multipurpose thermal mat that can be used in tents and in other sleeping environments
- Assembled in 3 layers with heavy-duty ribbon, strongly stitched around the mat’s entire perimeter
- Suitable for one adult/two children.

Viva™ Thermal Sleeping Mat
ICRC/IFRC/UNHCR Standard

- Multipurpose thermal mat that can be used in tents and in other sleeping environments
- Assembled in 3 layers with heavy-duty ribbon, strongly stitched around the mat’s entire perimeter
- Suitable for one adult/two children.
Family tents

Our fire-retardant family tents are fit-for-purpose, durable shelters designed for humanitarian settings. All our tents comply with recommended minimum living area in hot and moderate climates (3.5 m² per person), providing extra space for cold climates. We offer a new-generation polyethylene geodesic shaped dome tent and the classic poly-cotton family shelter, which can be used in combination with the Winterization Kit.

GeoHome
ICRC/IFRC/IOM Standard

- New generation family tent, geodesic shape
- Two-layer: outer tent and shade cover
- Adaptable to all climates
- Easy-set up (30 minutes, 3 persons)
- Fire retardant, UV resistant and waterproof
- Accommodates five persons
- Rapid deployment in any emergency.

Technical specifications

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total living area</td>
<td>19.6 m²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Center height</td>
<td>2.40 m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>4.33 m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>5.58 m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wall height</td>
<td>Dome-shaped</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door height</td>
<td>1.70 m</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Materials

- Outer tent (roof, walls, mud flaps, ground sheets and share fly)
  Base fabric: Woven high-density polyethylene (HDPE) black fibres
  Coating: white low density polyethylene (LDPE) on both sides, 190 gsm,
  Fire retardancy: EN13823+AI
- Inner tent
  100% polyester, 100 gsm, white,
  Fire retardancy: CPAI 84
- Mosquito nets
  Polyester
  Outer tent: 7-9 holes per inch²
  Inner tent: 20-25 holes per inch²
- Frame
  All aluminum
  Main pipes: outer diameter 19 mm ±0.5 mm, thickness 1.2 mm ±1%,
  Connectors: outer diameter adapted to main pipe, thickness 1.5 mm ±1%

Tent parts

- Windows
  Six windows. Two on each side of the tent and one next to each of the doors
  500 mm x 500 mm. Lower edge of the window 500 mm from the ground
- Ventilation
  Two ventilation openings at the top of the tent roof above the doors.
- Mosquito nets
  Polyester
  Outer tent: 7-9 holes per inch²
  Inner tent: 20-25 holes per inch²
- Doors
  Two doors located on the center of both tent gable ends. 0.9 m wide x 1.7 m high.

Graphic reference

All our materials are UV-proof, waterproof, rot-proof and fire retardant.
Marking and logo customized to your requirements.
**Viva™ Family tent**

**UNHCR Standard**

- Fire retardant, waterproof, rotproof and UV-stabilized
- 16 m² main floor area plus two 3.5 m² vestibules for a total area of 23 m², double-fly with ground sheet
- Complies to recommended minimum living area in hot and temperate climates (3.5 m² per person), providing extra space for cold climates
- Suitable for family of five people.

**Graphic reference**

- Materials
  - **Outer tent**
    - Roof: 350 gsm Polycotton, natural white (±10%)
    - Wall: 200 gsm Polycotton, natural white (±10%)
  - **Inner tent**
    - 130 gsm Polycotton, natural white
  - Mud flaps
    - 180 gsm Polyethylene (HDPE), black (±5%)
  - Ground sheet
    - 180 gsm Polyethylene (HDPE), black, sewn in bathtub (±5%)

- **Tent parts**
  - Inner partition
    - Two half partitions running from center pole to side wall
  - Chimney
    - A chimney reinforcement with a non-perforated opening is placed at 0.50 m from one corner
  - Windows
    - Outer tent has two long windows (360 x 30 cm) with mosquito netting and a rain flap running on both sides of the tent
  - Ventilators
    - The outer tent has two ventilation openings (25 x 30 cm) in front and back with reinforcement netting and a rain flap.

**Technical specifications**

- **Outer tent**
  - Total living area: 23 m²
  - Main floor: 16 m²
  - Two vestibule area: 3.5 m² x 2 = 7 m²
  - Center height: 2.20 m
  - Width: 4.00 m
  - Ridge length: 4.00 m
  - Side wall height: 1.25 m
  - Center base length: 6.60 m
  - Tent doors (W x H): Total size: 1.30 x 1.40 m
  - Door flaps: 1.40 x 1.60 m
  - Upper part: 1.40 x 0.90 m (PC)
  - Lower part: 1.40 x 0.70 m (PE)
  - Two upright poles: 2.20 m
  - One center upright pole: 2.17 m
  - Pole diameter: 25 x 1.20 mm
  - Six side poles: 1.25 m
  - Four door poles: 1.40 m
  - Pole diameter: 19 x 1.25 mm

- **Technical specifications**

- **Outer tent**
  - Total living area: 23 m²
  - Main floor: 16 m²
  - Two vestibule area: 3.5 m² x 2 = 7 m²
  - Center height: 2.20 m
  - Width: 4.00 m
  - Ridge length: 4.00 m
  - Side wall height: 1.25 m
  - Center base length: 6.60 m
  - Tent doors (W x H): Total size: 1.30 x 1.40 m
  - Door flaps: 1.40 x 1.60 m
  - Upper part: 1.40 x 0.90 m (PC)
  - Lower part: 1.40 x 0.70 m (PE)
  - Two upright poles: 2.20 m
  - One center upright pole: 2.17 m
  - Pole diameter: 25 x 1.20 mm
  - Six side poles: 1.25 m
  - Four door poles: 1.40 m
  - Pole diameter: 19 x 1.25 mm

- **Materials**
  - **Outer tent**
    - Roof: 350 gsm Polycotton, natural white (±10%)
    - Wall: 200 gsm Polycotton, natural white (±10%)
  - **Inner tent**
    - 130 gsm Polycotton, natural white
  - Mud flaps
    - 180 gsm Polyethylene (HDPE), black (±5%)
  - Ground sheet
    - 180 gsm Polyethylene (HDPE), black, sewn in bathtub (±5%)

- **Tent parts**
  - Inner partition
    - Two half partitions running from center pole to side wall
  - Chimney
    - A chimney reinforcement with a non-perforated opening is placed at 0.50 m from one corner
  - Windows
    - Outer tent has two long windows (360 x 60 cm) with mosquito netting and a rain flap running on both sides of the tent
  - Ventilators
    - The outer tent has two ventilation openings (25 x 30 cm) in front and back with reinforcement netting and a rain flap.

Viva™ Family tent

**ICRC/IFRC Standard**

- Waterproof, rotproof and UV-stabilized
- 16 m² main floor area plus two 3.5 m² vestibules
- Large windows (360 cm wide and 60 cm height)
- Minimum living area in hot and temperate climates
- Suitable for family of 5 people.

**Graphic reference**

- **Materials**
  - **Outer tent**
    - Roof: 380 gsm Polycotton, natural white (x10%)
    - Wall: 250 gsm Polycotton, natural white (x10%)
  - **Inner tent**
    - 160 gsm Polycotton, natural white
  - Mud flaps
    - 180 gsm Polyethylene (HDPE), black (±5%)
  - Ground sheet
    - 180 gsm Polyethylene (HDPE), black, sewn in bathtub (±5%)

- **Tent parts**
  - Inner partition
    - Two half partitions running from center pole to side wall
  - Chimney
    - A chimney reinforcement with a non-perforated opening is placed at 0.50 m from one corner
  - Windows
    - Outer tent has two long windows (360 x 60 cm) with mosquito netting and a rain flap running on both sides of the tent
  - Ventilators
    - The outer tent has two ventilation openings (25 x 30 cm) in front and back with reinforcement netting and a rain flap.
Viva™ Family tent

DFID/Save the Children Standard

- Fire retardant, waterproof, rotproof and UV-stabilized
- 16 m² main floor area plus two 3.5 m² vestibules for providing extra space for cold climates
- Complies to recommended minimum living area of 16 m² main floor area plus two 3.5 m² vestibules for providing extra space for cold climates in hot and temperate climates (3.2 m² per person)
- Suitable for family of five people.

Technical specifications

<table>
<thead>
<tr>
<th>Section</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total living area</td>
<td>23 m²</td>
</tr>
<tr>
<td>Main floor</td>
<td>16 m²</td>
</tr>
<tr>
<td>Vestibule area</td>
<td>3.5 m²</td>
</tr>
<tr>
<td>Center height</td>
<td>2.20 m</td>
</tr>
<tr>
<td>Width</td>
<td>4.00 m</td>
</tr>
<tr>
<td>Ridge length</td>
<td>4.00 m</td>
</tr>
<tr>
<td>Side wall height</td>
<td>1.25 m</td>
</tr>
<tr>
<td>Center base length</td>
<td>6.60 m</td>
</tr>
<tr>
<td>Tent doors (W x H)</td>
<td>1.35 x 1.40 m</td>
</tr>
<tr>
<td>Door flaps</td>
<td>1.46 x 1.60 m</td>
</tr>
<tr>
<td>Upper part</td>
<td>1.45 x 0.90 m (PC)</td>
</tr>
<tr>
<td>Lower part</td>
<td>1.45 x 0.70 m (PE)</td>
</tr>
<tr>
<td>Upright poles</td>
<td>2.20 m</td>
</tr>
<tr>
<td>Two upright poles</td>
<td>2.17 m - U shape</td>
</tr>
<tr>
<td>One center upright pole</td>
<td>2.17 m - U shape</td>
</tr>
<tr>
<td>Pole diameter</td>
<td>Two pcs (25 x 1.55 m) and One pc (25 x 1.55 m)</td>
</tr>
<tr>
<td>Side poles</td>
<td>1.25 m</td>
</tr>
<tr>
<td>Four door poles</td>
<td>1.40 m</td>
</tr>
<tr>
<td>Pole diameter</td>
<td>19 x 1.5 m</td>
</tr>
</tbody>
</table>

Materials

<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer tent</td>
<td>Roof, wall and canopy: 380 g/m² without FR, PolyCotton, Natural white</td>
</tr>
<tr>
<td>Inner tent</td>
<td>380 g/m², PolyCotton, Natural white</td>
</tr>
<tr>
<td>Inner liner and partition</td>
<td>160 g/m² PolyCotton, except fire retardant, Yellow, Beige, Cream and Sand</td>
</tr>
<tr>
<td>Mud flaps</td>
<td>PVC coated Polyester, in Light Color</td>
</tr>
<tr>
<td>Ground sheet</td>
<td>180 g/m² (HDPE), in Light color, Sewn in bathtub</td>
</tr>
</tbody>
</table>

Viva™ Winterization Kit

UNHCR/ICRC/IFRC Standard

- Designed to improve the insulation against cold for Viva™ Family Tents
- All the components are fire retardant to the level of the CPAI84 regulation
- All materials and additives used in the kit are non-toxic for human use, free from asbestos and other toxic products, according to the EC regulations
- Designed to fit together to the liner’s attachment points and heater flue pipe protection. All materials are fully fire retardant
- Can be used in any tent to protect the ground sheet when using a stove or heater
- Can be used only with tents originally equipped with standard chimney patch and flap
- Individually packed in a strong, waterproof plastic bag made of standard plastic tarpaulin.

Kit includes

- 5x insulated thermal sleeping mats
- 5x heat-resistant fibrocement plates (20 x 50 cm) for floor protection when using a stove/heater
- 1x winterization liner + 1x inner partition
- 1x heat-resistant chimney sleeve for heater flue pipe

Insulating floor mats

- Designed to protect families against the cold from the ground in standard family tents

<table>
<thead>
<tr>
<th>Section</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>1.8 x 0.9 m per mat</td>
</tr>
<tr>
<td>1st layer, plastic floor mat</td>
<td>Tight woven twill structure, double thickness, virgin polypropylene multifilament 500 deniers in warp, minimum 1,000 tubes/meter, 500 gsm minimum weight</td>
</tr>
<tr>
<td>2nd layer</td>
<td>Strong synthetic canvas with durable aluminum coating</td>
</tr>
<tr>
<td>3rd layer</td>
<td>Refer to our Medium Thermal Synthetic Blanket specifications</td>
</tr>
</tbody>
</table>

Floor protection

- Can be used in any tent to protect the ground sheet when using a stove or heater

<table>
<thead>
<tr>
<th>Section</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>4 mm thickness/plate, covering min. 0.5 x 1 m total surface</td>
</tr>
<tr>
<td>Materials</td>
<td>Fibrocinem plates, 100% fire-proof and rigid material</td>
</tr>
</tbody>
</table>

Viva™ Winterization Kit

Inner liner is designed to fit together, in particular to the attachment points of the liner, and the heater flue pipe protection. This inner liner includes an inner partition

- All materials are fire retardant to pass CPAI84, 1980, chapter 6 test

<table>
<thead>
<tr>
<th>Section</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2.5 m outer height, 3.8 m width, 3.8 m base length</td>
</tr>
<tr>
<td>Materials</td>
<td>Weight: 130 gsm ± 10% in finished state except FR weight</td>
</tr>
<tr>
<td></td>
<td>Tensile strength: ISO 19334-1, warp and weft 300 N minimum</td>
</tr>
<tr>
<td></td>
<td>Tear strength: ISO 9073-4, warp and weft 20 N minimum</td>
</tr>
<tr>
<td></td>
<td>Colors: Available in yellow, beige, cream or sand</td>
</tr>
<tr>
<td>Design</td>
<td>Made from one fold of breathable, rot-proof, fire retardant canvas</td>
</tr>
</tbody>
</table>

Heat-Resistant Sleeve

- Can be used only with tents originally equipped with standard chimneys and patch as described in our Viva™ Family Tents

<table>
<thead>
<tr>
<th>Section</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>350 x 700 mm base pyramid shape, 400 mm pyramid height, 150 mm hole diameter</td>
</tr>
<tr>
<td>Material</td>
<td>100% fireproof, tearproof, waterproof soft canvas</td>
</tr>
<tr>
<td></td>
<td>Fire resistant to CPAI84 at conditions of origin and after leaching</td>
</tr>
<tr>
<td></td>
<td>Tear resistant under ISO 9073-4, minimum 40 N waterproof under ISO 811: minimum 20 Npa (20 cm)</td>
</tr>
<tr>
<td>Design</td>
<td>Flue pipe sleeve is a spare part made of fireproof canvas, Pyramid base has Velcro to grip to the Velcro of the tent chimney outer flap</td>
</tr>
</tbody>
</table>

All components are fire retardant to the level of the CPAI84 regulation

All materials and additives used in the kit are non-toxic for human use, free from asbestos and other toxic products, according to the EC regulations

Marking, logos and colors are customised to client requirements.
We offer a wide range of multipurpose tents that can be deployed in various ways, such as school, medical space, office or group accommodation. The latest addition to our enviable range is the LegendMEDI, a medical structure in compliance with MSF standards. The LegendMEDI is developed in a response to the Ebola outbreak in 2014 and offers separate, easy-to-disinfect cabins for suspected and confirmed hemorrhagic fevers patients.

Huggy™ 24 tent

UNICEF Standard

- Waterproof, rotproof and UV-stabilized
- Lightweight, rectangular and framed tent that can be used for schooling, storage or temporary shelter purposes
- Outer tent fabric is made of 450 - 455 g/m² PVC coated fabric, natural white
- Marking and logo customized to your requirements.

Graphic reference

Technical specifications

<table>
<thead>
<tr>
<th>Outer tent</th>
<th>Inner tent</th>
<th>Ground sheet</th>
<th>Windows</th>
<th>Doors</th>
<th>Ground sheet</th>
<th>Main frame</th>
<th>Seams</th>
</tr>
</thead>
</table>
| Total size 6.00 x 4.00 m | Center height 2.80 m | Wall height 1.95 m | 120 gsm Polycotton, natural white | 190 gsm Polyethylene (HDPE), PVC fabric, sewn in bathtub, light grey/natural white | 450 - 455 gsm fire retardant™ PVC coated fabric, natural white | 35 aluminum pipes 37 mm diameter, 2 mm thick, silver / 10 steel connectors, silver / 12 steel connectors with base plates, silver / Four hanging steel connectors | All seams are double-stitched with welded main roof seams.

Materials

- Outer tent: 450 - 455 gsm fire retardant™ PVC coated fabric, natural white
- Inner tent: 120 gsm Polycotton, natural white
- Ground sheet: 190 gsm Polyethylene (HDPE), PVC fabric, sewn in bathtub, light grey/natural white
- Windows: Six windows on long sidewalls 0.85 x 0.85 m with PE stripes reinforcement
- Four windows on short sidewalls 0.70 x 0.85 m with PE stripes reinforcement
- Doors: One door on each gable end side 1.00 x 1.80 m, closed with velcro
- Ground sheet: Double stitched to inner tent, 100 - 200 mm above the ground
- Main frame: 35 aluminum pipes 37 mm diameter, 2 mm thick, silver / 10 steel connectors, silver / 12 steel connectors with base plates, silver / Four hanging steel connectors
- Seams: All seams are double-stitched with welded main roof seams.

• All our materials are UV-proof, waterproof, rotproof and fire retardant.
• Marking and logo customized to your requirements.
Materials

**Outer tent**
- 450 gsm - 550 gsm fire retardant* PVC coated fabric, natural white

**Inner tent**
- 120 gsm Polycotton, natural white

**Ground sheet**
- 190 gsm Polyethylene (HDPE), PVC fabric, sewn in bathtub, light grey/natural white

**Windows**
- Eight windows on long sidewalls 0.90 x 1.10 m with PVC stripes reinforcement / four windows on short sidewalls 0.85 x 1.00m with PVC stripes reinforcement

**Doors**
- One door on each gable end side, 1.20 x 2.00 m, closed with velcro

**Ground sheet**
- Double stitched to inner tent, 105 - 200 mm above the ground

**Main frame**
- 46 aluminum pipes 37 mm diameter, 2 mm thick, silver / 15 steel connectors, silver / 14 steel connectors with base plates, silver / five hanging steel connectors, two hooks on each end, silver

**Seams**
- All seams are double-stitched with welded main roof seams.

**Technical specifications**

**Outer tent**
- Total size 7.00 x 6.00 m
- Center height 2.95 m
- Wall height 2.10 m

**Inner tent**
- Center height 2.40 m
- Wall height 1.95 m

**Window arrangements**
- Eight windows on long sidewalls 0.90 x 1.10 m with PVC stripes reinforcement / four windows on short sidewalls 0.85 x 1.00m with PVC stripes reinforcement

**Doors**
- One door on each gable end side, 1.20 x 2.00 m, closed with velcro

**Ground sheet**
- Double stitched to inner tent, 105 - 200 mm above the ground

**Main frame**
- 46 aluminum pipes 37 mm diameter, 2 mm thick, silver / 15 steel connectors, silver / 14 steel connectors with base plates, silver / five hanging steel connectors, two hooks on each end, silver

**Seams**
- All seams are double-stitched with welded main roof seams.

**Huggy™ 42 tent**

**UNICEF Standard**

- Waterproof, rotproof and UV-stabilized
- Lightweight, rectangular and framed tent that can be used for schooling, storage or temporary shelter purposes
- Outer tent fabric is made of 450 - 455 g/m² PVC coated fabric, natural white
- Marking and logo customized to your requirements.

**Graphic reference**

**Huggy™ 72 tent**

**UNICEF Standard**

- Waterproof, rotproof and UV-stabilized
- Lightweight, rectangular and framed tent that can be used for schooling, storage or temporary shelter purposes
- Outer tent fabric is made of 450 - 455 g/m² PVC coated fabric, natural white
- Marking and logo customized to your requirements.

**Graphic reference**
HuggyPRO 24 tent
UNICEF Standard

- New generation multipurpose tent made of high quality and durable materials, ensuring a strong construction
- A spacious 24 m² tent with vertical walls for optimum use of inner space
- Cost-efficient, lightweight and compact packing
- Strong and lightweight high tensile steel frame structure to withstand high wind and snow loads
- Rot and mildew proof, easy to clean and disinfect, resistant to commonly used disinfectants and detergents
- High performing in hot, cold and wet weather conditions; does not ‘heat up’ in direct sunlight, blocks UV, does not break or absorb moisture in below zero temperatures
- Environmentally friendly: low energy production process, fully recyclable, safely disposable by burning or burying when recycling is not possible.

Technical specifications

Dimensions
- Total size: 24 m²
- Floor size: 6.0 x 4.0 m (±2%)
- Central height outer tent: 3.00 m (±2%)
- Wall height outer tent: 2.05 m (±2%)
- Structure: Lightweight tubular steel frame structure

Add on
- Inner liner, Winter liner, Winter liner (insulating flooring tiles), Hard flooring, Electrical lighting kit, Solar lighting kit

Materials
- Outer liner and mud flaps: 250 g/m² ±10% HDPE/LDPE laminated woven fabric, Fire Retardant CPAI 84-6, rot proof, Fire Retardant CPAI 84-6
- Ground sheet: 190 g/m² ±10% HDPE/LDPE laminated woven fabric, Fire Retardant CPAI 84-6, rot proof and durable
- Shade net: 190 g/m² ±10% HDPE knitted mesh, UV resistant, rot proof, Fire Retardant CPAI 84-6
- PES mesh, PVC coated, for windows and ventilation grates: 270 g/m² ±10% PVC coated PES knitted mesh, UV resistant and Fire Retardant Class B1
- Steel tubing for frame: Steel quality: high tensile steel, quality Q195, rolled and welded tubing, electrolytic galvanized, Diameter 38 mm, wall thickness 1.5 mm. Frame components are powder coated after fabrication
- Add ons: Inner liner, Winter liner, Winter liner (insulating flooring tiles), Hard flooring, Electrical lighting kit, Solar lighting kit

Colors
- White outer liner, light grey groundsheet, black trimmings.

HuggyPRO 48 tent
UNICEF Standard

- New generation multipurpose tent made of high quality and durable materials, ensuring a strong construction
- A spacious 48 m² tent with vertical walls for optimum use of inner space
- Cost-efficient, lightweight and compact packing
- Strong and lightweight high tensile steel frame structure to withstand high wind and snow loads
- Rot and mildew proof, easy to clean and disinfect, resistant to commonly used disinfectants and detergents
- High performing in hot, cold and wet weather conditions; does not ‘heat up’ in direct sunlight, blocks UV, does not break or absorb moisture in below zero temperatures
- High comfort thanks to advanced ventilation and large mesh windows
- Environmentally friendly: low energy production process, fully recyclable, safely disposable by burning or burying when recycling is not possible.

Technical specifications

Dimensions
- Total size: 48 m²
- Floor size: 6.0 x 8.0 m (±2%)
- Central height outer tent: 3.00 m (±2%)
- Wall height outer tent: 2.05 m (±2%)
- Structure: Lightweight tubular steel frame structure

Add on
- Inner liner, Winter liner, Winter liner (insulating flooring tiles), Hard flooring, Electrical lighting kit, Solar lighting kit

Materials
- Outer liner and mud flaps: 250 g/m² ±10% HDPE/LDPE laminated woven fabric, Fire Retardant CPAI 84-6, rot proof, Fire Retardant CPAI 84-6
- Ground sheet: 190 g/m² ±10% HDPE/LDPE laminated woven fabric, Fire Retardant CPAI 84-6, rot proof and durable
- Shade net: 190 g/m² ±10% HDPE knitted mesh, UV resistant, rot proof, Fire Retardant CPAI 84-6
- PES mesh, PVC coated, for windows and ventilation grates: 270 g/m² ±10% PVC coated PES knitted mesh, UV resistant and Fire Retardant Class B1
- Steel tubing for frame: Steel quality: high tensile steel, quality Q195, rolled and welded tubing, electrolytic galvanized, Diameter 38 mm, wall thickness 1.5 mm. Frame components are powder coated after fabrication
- Add ons: Inner liner, Winter liner, Winter liner (insulating flooring tiles), Hard flooring, Electrical lighting kit, Solar lighting kit

Colors
- White outer liner, light grey groundsheet, black trimmings.
**Dispensary tent**

**IFRC Standard**

- 27.5 sqm waterproof tent ideal for medical, educational, office, storage or accommodation use
- Easy set up with three to four personnel in 30 minutes
- Especially designed for high resistance to wind, rain and micro-organisms
- Has triangular ventilation windows, replaceable logo windows, and cable connectors for power supply
- Optional accessories consist of bath tub ground sheet and shade net, as well as an option for fire retardancy treatment
- Several tents can be assembled in line with the built-in connection strip
- Suitable for 8-20 people.

**Technical specifications**

- **Dimensions**
  - Total size: 27.5 m²
  - Length: 5.5 m
  - Width: 5.0 m
  - Wall height: 1.8 m

- **Materials**
  - **Frame**
    - aluminum frame, all poles with 40 mm diameter and 2 mm thickness
    - 8x standing poles, 175 cm, with base plate
    - 8x ridge beam poles, 145 cm
    - 9x ridge poles, 171 cm, 12x connectors
  - **Outer tent roof, wall and door**
    - High quality fabric canvas, 440 gsm, waterproof
  - **Shade net**
    - HDPE with 10 metal sticks
  - **Windows**
    - 4x triangular windows with mosquito nets

- **Accessories**
  - **Pegs and pins**
    - 4x candy cane-shaped pegs made from twisted rod, 12 mm thickness and 40 cm length
    - 16x L-shaped pins made from twisted rod, 10 mm thickness and 20 cm length
    - 20x candy cane pegs, 30 cm length
  - **Hammer**
    - Sledge hammer with wooden handle.

**Graphic reference**

- All our materials are UV-proof, waterproof, rotproof and fire retardant.
- Marking and logo customized to your requirements.

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**HuggyPRO 72 tent**

**UNICEF Standard**

- New generation multipurpose tent made of high quality and durable materials, ensuring a strong construction
- A spacious 72 m² tent with vertical walls for optimum use of inner space
- Cost-efficient, lightweight and compact packing
- Strong and lightweight high tensile steel frame structure to withstand high wind and snow loads
- Rot and mildew proof, easy to clean and disinfect, resistant to commonly used disinfectants and detergents
- High performing in hot, cold and wet weather conditions; does not ‘heat up’ in direct sunlight, blocks UV, does not break or absorb moisture in below zero temperatures
- High comfort thanks to advanced ventilation and large mesh windows
- Environmentally friendly: low energy production process, fully recyclable, safely disposable by burning or burying when recycling is not possible.

**Technical specifications**

- **Dimensions**
  - **Total size**: 72 m²
  - **Floor size**: 6.0 x 12.0 m (±2%)
  - **Central height outer tent**: 3.00 m (±2%)
  - **Wall height outer tent**: 2.05 m (±2%)
- **Structure**
  - Lightweight tubular steel frame structure

**Add ons**

- Inner liner, Winter liner, Winter liner (insulating flooring tiles), Hard flooring, Electrical lighting kit, Solat lighting kit

**Materials**

- **Outer liner and mud flaps**
  - 250 g/m² ±10% HDPE/LDPE laminated woven fabric, waterproof, UV resistant, Fire Retardant CPAI 84-6, rot roof and durable
- **Ground sheet**
  - 190 g/m² ±10% HDPE/LDPE laminated woven fabric, waterproof 5000 mm, Fire Retardant CPAI 84-6, Rotproof and durable
- **Shade net**
  - 190 g/m² ±10% HDPE knitted mesh, UV-resistant, rot proof, Fire Retardant CPAI 84-6
- **PES mesh, PVC coated, for windows and ventilation grates**
  - 270 g/m² ±10% PVC coated PES knitted mesh, UV resistant and Fire Retardant Class B1
- **Steel tubing for frame**
  - Steel quality: high tensile steel, quality Q195, rolled and welded tubing, electrolytic galvanized. Diameter 38 mm, wall thickness 1.5 mm. Frame components are powder coated after fabrication
- **Colors**
  - White outer liner, light grey groundsheet, black trimmings.

**Graphic reference**

- All our materials are UV-proof, waterproof, rotproof and fire retardant.
- Marking and logo customized to your requirements.
**Legend™ 33 tent**

ICRC/IFRC Standard

- Multipurpose tent which can be used for schooling, office, clinic, health center, storage or temporary shelter purposes and can be attached to one another to make a longer structure.
- Separate ground sheet for use in tent is available as option in case main tent is used for living conditions / clinics.
- A shade net is available as an optional accessories in hot climates.
- For increased protection from heat, cold, wind, dust, and insects an inner tent with sewed in bath tub type ground sheet is available as an option.
- Suitable for 15-30 persons.

**Technical specifications**

| Outer tent (width x height) | 6 x 5.63 m |
| Ridge height | 3.00 m |
| Side wall height | 2.10 m |

| Inner tent (width x height) | 5.70 x 5.33 m |
| Ridge height | 2.80 m |
| Side wall height | 1.95 m |

**Materials**

- Outer tent: Roof, wall: Polycotton blended fibre yarns, 440 gsm for the roof, 320 gsm in finished state for the walls.
- Mud flaps: PVC coated fabric polyester 1100 dtex, PVC coated 2 sides 540 gsm.

**Tent parts**

- Doors: One door on each end with fast opening/closing system and one on each side. Full width opening possible on both ends.
- Ventilation: Two high ventilation windows with sun-visors/shutters, grill and mosquito netting on each side. One high ventilation window with shutter, canopy/sun-visor and mosquito netting on each gable end.
- Frame: The tent has an aluminum frame with 40 mm x 2 mm pipes (same length) and steel connectors (same angle) in sandwich bale.

**Accessories**

- One tent with all accessories packed in a bale.
- Other required accessories including assembling instruction, content list and repair kit included.

**Others**

- Velcro strips on both sides for logo attachment and two electric cable passages.

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**Legend™ 45 tent**

MSF/ICRC/IFRC Standard

- Multipurpose tent which can be used for schooling, office, clinic, health center, storage or temporary shelter purposes and can be attached to one another to make a longer structure.
- Separate ground sheet for use in tent is available as option in case main tent is used for living conditions / clinics.
- A shade net is available as an optional accessories in hot climates.
- For increase protection from heat, cold, wind, dust, and insects an inner tent with sewed in bath tub type ground sheet is available as an option.
- Suitable for 20-40 persons.

**Technical specifications**

| Outer tent (width x height) | 7.50 x 6.00 m |
| Ridge height | 3.00 m |
| Side wall height | 2.10 m |

| Inner tent (width x height) | 7.20 x 5.70 m |
| Ridge height | 2.80 m |
| Side wall height | 1.95 m |

**Materials**

- Outer tent: Roof, wall: Polycotton blended fibre yarns, 440 gsm for the roof, 320 gsm in finished state for the walls.
- Mud flaps: PVC coated fabric polyester 1100 dtex, PVC coated 2 sides 540 gsm.

**Tent parts**

- Doors: One door on each end with fast opening/closing system and one on each side. Full width opening possible on both ends.
- Ventilation: Two high ventilation windows with sun-visors/shutters, grill and mosquito netting on each side. One high ventilation window with shutter, canopy/sun-visor and mosquito netting on each gable end.
- Frame: The tent has an aluminum frame with 40 mm x 2 mm pipes (same length) and steel connectors (same angle) in sandwich bale.

**Accessories**

- One tent with all accessories packed in a bale.
- Other required accessories including assembling instruction, content list and repair kit included.

**Others**

- Velcro strips on both sides for logo attachment and two electric cable passages.
Our Rex Hall mobile storage unit (MSU) is the king of our tent range. Rex Halls are reliable structures to accommodate affected populations, safeguard food storage and create a basic infrastructure to respond to disasters effectively. MSUs or movable warehouses are the answer when hard structures are unavailable or inadequate. We offer various sizes (6x5 x 8m, 10x24m, 10x32m, 10x36m) and a quick set-up can be ensured with six people only, without the need of lifting equipment. Our Rex Halls are highly wind resistant (up to 110 km/h) and suitable for hot, cold and harsh climates.

**Legend**

**MEDI**

MSF Standard

- This tent is designed in response to the Ebola epidemic in 2014. The medical tent can be deployed in case of haemorrhagic fever outbreaks such as Ebola and Lassa. Also, it can be deployed in cases of outbreaks of infectious diseases such as cholera.
- It offers solutions such as treatment and isolation rooms for both suspected and confirmed patients.
- The individual cabins for suspected patients prevent cross-contamination between infected and healthy patients.
- The medical tent is constructed in a way no (infected) material can accumulate on the surface of the tent, in seams or other parts.
- The tent is designed to allow freedom of movement and easy operation like opening/closing of the doors with magnetic closures, wearing protective clothing.
- The special treatment cabins and other accessories are made of PVC coated polyester or polyethylene tarpaulin with non-corrosive accessories, whereby all seams and attachment points which might get in touch with patients, are heat or HF welded.
- All tent components can be disinfected with chlorine-based disinfectants or other commonly used detergents.
- It can be erected on various soil conditions and in different climate conditions, from moderate to tropical.
Graphic reference

Materials
Outer tent
Roof, wall, gable covers: 700 gsm PVC coated polyester, white, UV protected

Tent parts
Ventilators
The gable ends are fitted with high placed large ventilators with mosquito netting

Doors
Both gable ends are fitted with roll up doors, 290 x 300 cm

Modularity
The length of the shelter can be endlessly extended with modules of 6.5 x 4 m.
Rex Hall 10.0 x 32m
Used by IFRC/ICRC/WFP

- Standard size 10m width by 32m length (sections of 4m length can be added) with large entry doors
- Fast setup with 4-6 personnel without use of lifting equipment or working on heights
- Made of durable aluminum box profiles and hot-dipped galvanized hardware, with covers of durable fire retardant and UV-resistant translucent PVC fabric and fully HF welded for long life
- Designed to withstand high wind up to 31 m/s (>110 km/h) and can be used in both hot and cold climates.

Technical specifications

Dimensions

<table>
<thead>
<tr>
<th>Standard size</th>
<th>10 x 32 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total usable area</td>
<td>320 m²</td>
</tr>
<tr>
<td>Center height</td>
<td>5.50 m</td>
</tr>
<tr>
<td>Width</td>
<td>10.00 m</td>
</tr>
<tr>
<td>Ridge length</td>
<td>3.20 m</td>
</tr>
<tr>
<td>Side wall height</td>
<td>3.35 m</td>
</tr>
<tr>
<td>Gable doors (width x height)</td>
<td>4.37 x 4.00 m</td>
</tr>
</tbody>
</table>

Modularity

- The length of the shelter can be endlessly extended with modules of 10 x 4 m modules.

Materials

- Outer tent: Roof, wall, gable covers: 700 gsm PVC coated polyester, white, UV protected

Ventilators

- The gable ends are fitted with high placed large ventilators with removable mosquito netting and adjusting rain flap

Doors

- Both gable ends are fitted with sliding doors, 450 x 400 cm

Graphic reference

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Rex Hall 10.0 x 36m
Used by UNICEF/UNHCR

- Standard size 10m width by 36m length with large entry doors
- Fast setup with 4-6 personnel without use of lifting equipment or working on heights
- Made of durable aluminum box profiles and hot-dipped galvanized hardware, with covers of durable fire retardant and UV-resistant translucent PVC fabric and fully HF welded for long life
- Designed to withstand high wind up to 31 m/s (>110 km/h) and can be used in both hot and cold climates.

Technical specifications

Dimensions

<table>
<thead>
<tr>
<th>Standard size</th>
<th>10 x 36 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total usable area</td>
<td>360 m²</td>
</tr>
<tr>
<td>Center height</td>
<td>5.50 m</td>
</tr>
<tr>
<td>Width</td>
<td>10.00 m</td>
</tr>
<tr>
<td>Ridge length</td>
<td>3.20 m</td>
</tr>
<tr>
<td>Side wall height</td>
<td>3.20 m</td>
</tr>
<tr>
<td>Gable doors (width x height)</td>
<td>4.37 x 4.00 m</td>
</tr>
</tbody>
</table>

Modularity

- The length of the shelter can be endlessly extended with modules of 10 x 4 m modules.

Materials

- Outer tent: Roof, wall, gable covers: 700 gsm PVC coated polyester, white, UV protected

Ventilators

- The gable ends are fitted with high placed large ventilators with removable mosquito netting and adjusting rain flap

Doors

- Both gable ends are fitted with sliding doors, 450 x 400 cm

Graphic reference
Solar items

Committed to creating a better life for people living without reliable electricity, our aim is to bring light, connectivity and convenience to millions. We do this by tapping into a free, clean and renewable source of energy around us: the sun.

Solar Shelter Kit

- Durable and intuitive lamp is waterproof (IP68) and very bright (140 lumens for 8 hours on a single charge).
- Multipurpose lamp has various lighting options such as a torch, table light, ambiance light
- 2Wp PV smart solar panel and 5m charging cable
- Fit-for-purpose for use in humanitarian settings
- Highly appreciated product: 95% user satisfaction. Beneficiaries appreciate the Solar Shelter Kit for brightness, versatility and protection purposes
- Compatible with any shelter, with an easy-to-use universal panel fixation system
- Torch can be worn around the neck with lacer (rope), providing a hands-free option
- Lamp has easy fixation options: Suspend from ceiling with lacer or use build-in hook to mount on wall
- Multi USB charger suitable for most (smart) phones
- Reliable lighting source; torch lasts up to 13 hours and lamp up to 40 hours
- Offers 3 lighting settings: High, medium and low
- Has power-saving feature that ensures 4 extra hours of light
- Batteries can easily be replaced. Expected life span is 3 years or >800 cycles
- User-friendly 3 LED indicator shows both battery status and charging status.
- Colors and logos can be customized according to client/cultural preferences
- Compact size and weight ensures affordable transportation
- 2-year warranty.

Technical specifications

<table>
<thead>
<tr>
<th>Lighting mode</th>
<th>Full charge</th>
<th>1 day charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torch</td>
<td>70 lumen x 13 hrs</td>
<td>70 lumen x 13 hrs</td>
</tr>
<tr>
<td>Room light</td>
<td>Low level: 15 lumen x 40 hrs</td>
<td>15 lumen x 40 hrs</td>
</tr>
<tr>
<td></td>
<td>Medium level: 70 lumen x 16 hrs</td>
<td>70 lumen x 16 hrs</td>
</tr>
<tr>
<td></td>
<td>High level: 140 lumen x 8 hrs</td>
<td>140 lumen x 8 hrs</td>
</tr>
</tbody>
</table>

Distress

- Blinking

*Phone charging will lower lighting run time

Quality

- Durability: IP68; Dust tight and water immersion 1 meter
- Quality standard: Lighting Global Quality Standards, CE, ROHS
- Warranty: 2 year against manufacturing defects or workmanship
- Product colour: Customizable according to client requirements
- Battery life span: 3 years or >800 cycles
- Color characteristics: CRI 79 / 5000k
- Temperature range: -10°C to 50°C
- Robustness: 1 meter drop test passed

Charging

- All-in-one charging: 2W solar panel with ABS frame and 5 meter cable. Optional: AC USB cable
- Smartphone charging: USB port and most popular phone adaptors (smartphone)
- Battery: 2200 mAh Lithium-Ion (NMC) 3.7 volts.
Enlight Essential

- 0.8 Wp integrated Polycrystalline solar panel (external panel connection option available)
- Designed for handheld operations, in ready-to-deploy environments
- Can be worn around the neck, or secured on wrist with included lanyard
- Easy fixation options: Suspend from ceiling, or hang from wall
- Phone charging capability through multi USB charging cable*
- Reliable lighting source, torch runs for 5 hours 30 lumens, and lamp runs for 4.8 to 5 hours at 70 lumens.
- Offers 3 lighting settings: Torch, high and low
- Has power saving feature that ensures 3 extra hours of light
- 1,400 mAh LifePO4 battery that ensures long lasting cycles. Expected life span is 3 years or >1,500 cycles
- User-friendly LED indicator shows both battery status and charging status
- Colors and logos can be customized according to client/cultural preferences
- Compact size and weight ensures affordable transportation
- 2-year warranty.

Technical specifications

<table>
<thead>
<tr>
<th>Lighting mode</th>
<th>Full charge*</th>
<th>1 day charge*</th>
<th>5 hrs (STC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torch</td>
<td>30 lumens x 5 hrs</td>
<td>30 lumens x 5 hrs</td>
<td></td>
</tr>
<tr>
<td>Room light - low level</td>
<td>10 lumens x 30 hrs</td>
<td>10 lumens x 30 hrs</td>
<td></td>
</tr>
<tr>
<td>Room light - high level</td>
<td>70 lumens x 5 hrs</td>
<td>70 lumens x 5 hrs</td>
<td></td>
</tr>
<tr>
<td>Emergency mode</td>
<td>Activated at end of high room light runtime</td>
<td>10 lumens x 3 hrs</td>
<td></td>
</tr>
</tbody>
</table>

*Phone charging will lower lighting run time
*Charging cable optional

Quality

- Durability: IP54: Protected against dust and water splashes
- Quality standard: Lighting Global Quality Standards
- Warranty: 2 year against manufacturing defects or workmanship
- Product colour: Customizable according to client requirements
- Battery life span: 3 years or >1500 cycles
- LED color temperature: 82 CRI/5000K
- Operating temperature: -10°C to 50°C
- Robustness: 1 meter drop test passed

Charging

- Enlight essential charging: 0.8 Wp integrated Polycrystalline solar panel
- Smartphone charging: USB port that supplies 5V/500mA
- Battery: 3.2 V/1400 mAh LifePO4 18650 cell.

Solar Lighting Kit

- Easy assembly and disassembly
- 30/60/90 Wp solar panel configurations
- Directly compatible with HuggyPRO series tents (24/48/72)
- Fit-for-purpose for use in humanitarian, home and tent settings
- Compatible with any shelter with an easy to use unit fixation system
- Indoor tube lights has separate dimmer controls
- Outdoor tube light with on/off control
- 2A USB charging outlet with current control
- Has power saving mode that ensures 3 hours of light at low mode
- Easily replaceable 12.8V/84Wh – Expected lifespan is > 3 years, or 1500 cycles (LifePo4)
- User-friendly 5 LED indicators for battery life, and low power mode
- Single button to control pilot lamp and battery status
- Colors and logos can be customized as per customer requirements
- Built in pilot lamp for easy location in dark.