

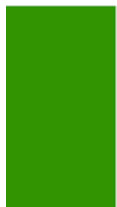
# Early Childhood Development Centre

Design Proposal - January 2015

Prepared by Niall Fitzgerald Student Architect DIT Bolton Street



unicef





Action Ireland Trust are delighted to work with Unicef and The Ministry for Education and Training Lesotho on a project for the establishment of Early Childhood Development Centers (ECDC). This presentation document is for all parties to the project to consider as a draft to possible designs. The document explores possible features and concepts that can be delivered in a cost effective way and simultaneously provide a learning and teaching environment that will cater for the needs of children in early childhood education. This document was prepared by Niall FitzGerald student architect DIT in consultation with Fran Whelan Architect and CEO Action Ireland Trust and Niall FitzGerald Chairman Action Ireland Trust.



## Introduction



Children are the foundation of sustainable development. The early years of life are crucial not only for individual health and physical development, but also for cognitive and social-emotional development. Events in the first few years of life are formative and play a vital role in building human capital, breaking the cycle of poverty, promoting economic productivity, and eliminating social disparities and inequities.

UNICEF works with governments, civil society, communities and other stakeholders to design and implement inter-sectoral evidence-based ECD programmes and policies that help young children reach their full potential by supporting families and communities, and by increasing access to quality early childhood care and education.





## Why Early Childhood Development?

7.6 million children under the age of 5 worldwide die each year. More than 25 times that number – over 200 million children – survive, but do not reach their full potential. As a result, their countries have an estimated 20 per cent loss in adult productivity. What happens during the early years is of crucial importance for every child's development. It is a period of great opportunity, but also of vulnerability to negative influences.

Many children do not reach their full human potential because of their families' income status, geographic location, ethnicity, disability, religion or sexual orientation. They do not receive adequate nutrition, care and opportunities to learn. These children and their families can be helped. It is their right to develop as well as to survive. Good nutrition and health and consistent loving care and encouragement to learn in the early years of life help children to do better at school, be healthier, have higher earnings and participate more in society. This is especially important for children in poverty. A good foundation in the early years makes a difference through adulthood and even gives the next generation a better start. Educated and healthy people participate in, and contribute to, the financial and social wealth of their societies.

Early years of childhood form the basis of intelligence, personality, social behavior, and capacity to learn and nurture oneself as an adult. There is significant evidence that links the circumstances of adversity and habits formed in early years to the non-communicable diseases of adulthood.



There is consistent and strong evidence which shows that:

- Brain development is most rapid in the early years of life. When the quality of stimulation, support and nurturance is deficient, child development is seriously affected.
- The effects of early disadvantage on children can be reduced. Early interventions for disadvantaged children lead to improvements in children's survival, health, growth, and cognitive and social development.
- Children who receive assistance in their early years achieve more success at school. As adults they have higher employment and earnings, better health, and lower levels of welfare dependence and crime rates than those who don't have these early opportunities.
- Efforts to improve early child development are an investment, not a cost. Available cost-benefit ratios of early intervention indicate that for every dollar spent on improving early child development, returns can be on average 4 to 5 times the amount invested, and in some cases, much higher.

Health services, health workers and community providers have an important role in promoting development of young children. Focussing exclusively on targeted interventions such as health and nutrition without considering the holistic nature of Early Childhood Development risks the hindrance of children's complete growth and development. Both biological and environmental factors affect brain development and behavior. For example, young children who experience extreme stress are at greater risk for developing cognitive, behavioral or emotional difficulties. These impediments can have lasting effects on children's readiness for school and later on their performance in school. For disadvantaged children, the initial deficit of interventions for development has a multiplying effect: children raised in poverty complete far less education than middle class children, due in part to their lowered ability to learn in school. The opportunity to help disadvantaged children attain a more equal start in schooling is in the earliest years of life, when children's brains are developing most rapidly, and the basis for their cognitive, social and emotional development is being formed. A commitment to reducing poverty and increasing the chances of success for all children requires investment in the earliest years.



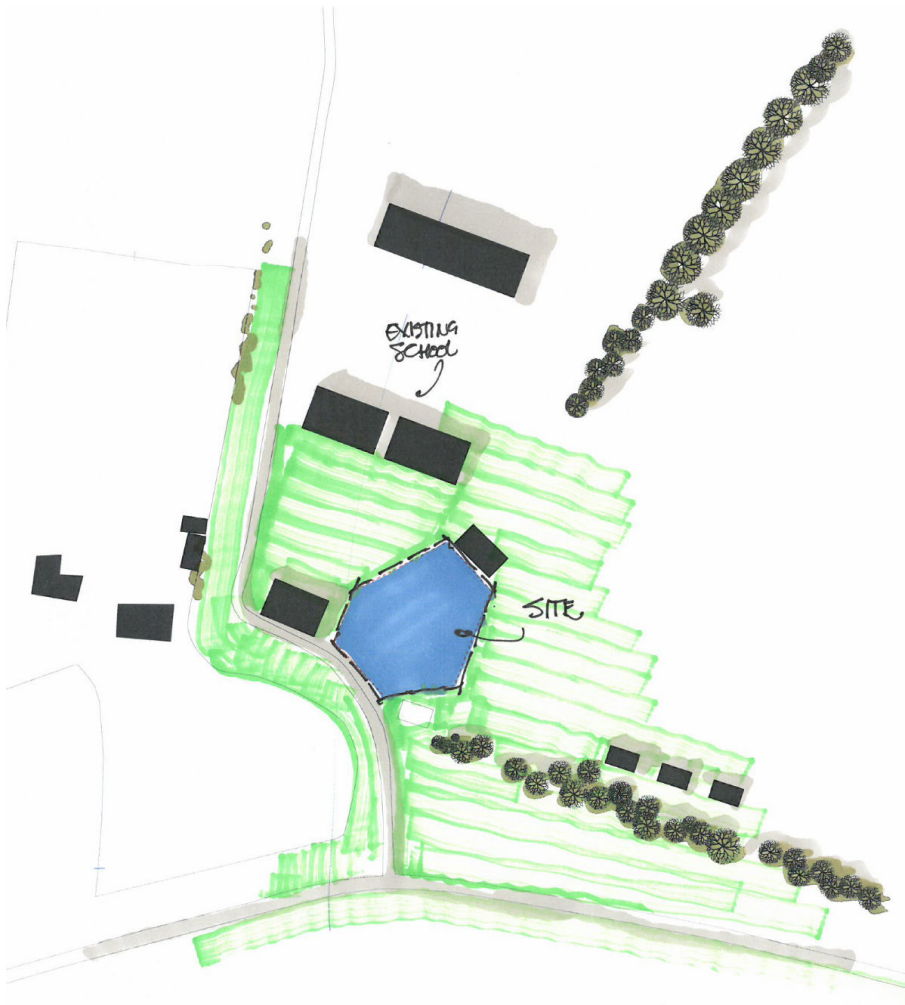
# Site Location

Ha Hlalele Lesotho  
-29.442152, 27.412887





# Site Plan



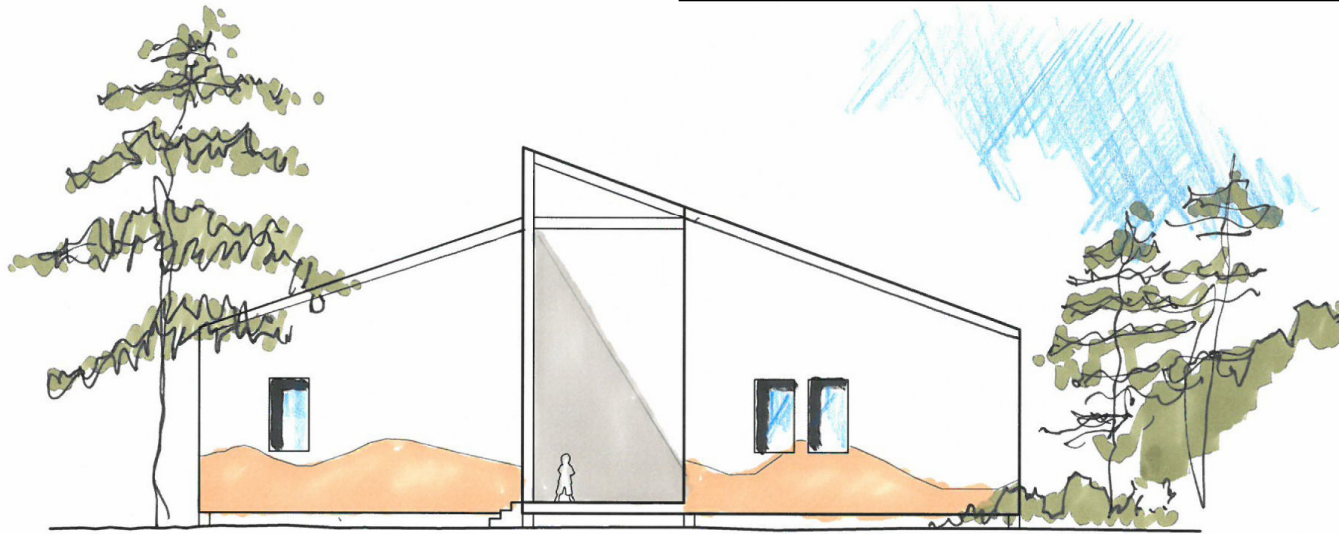
# Floor Plan



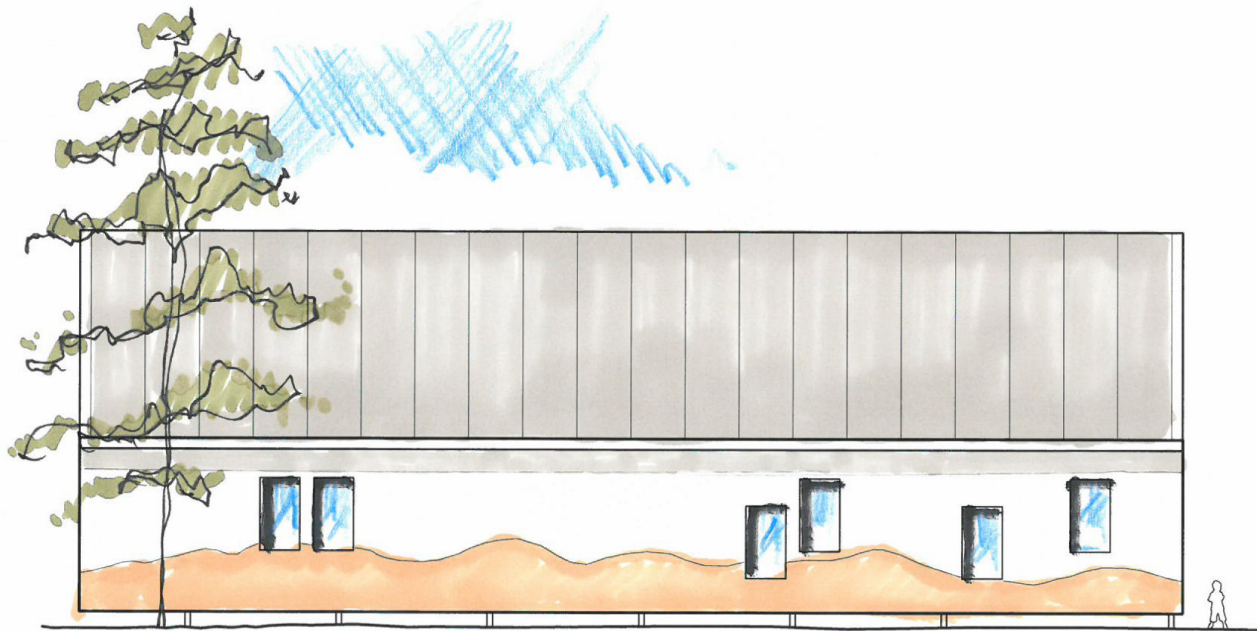


# Elevations

---



**Side Elevation**

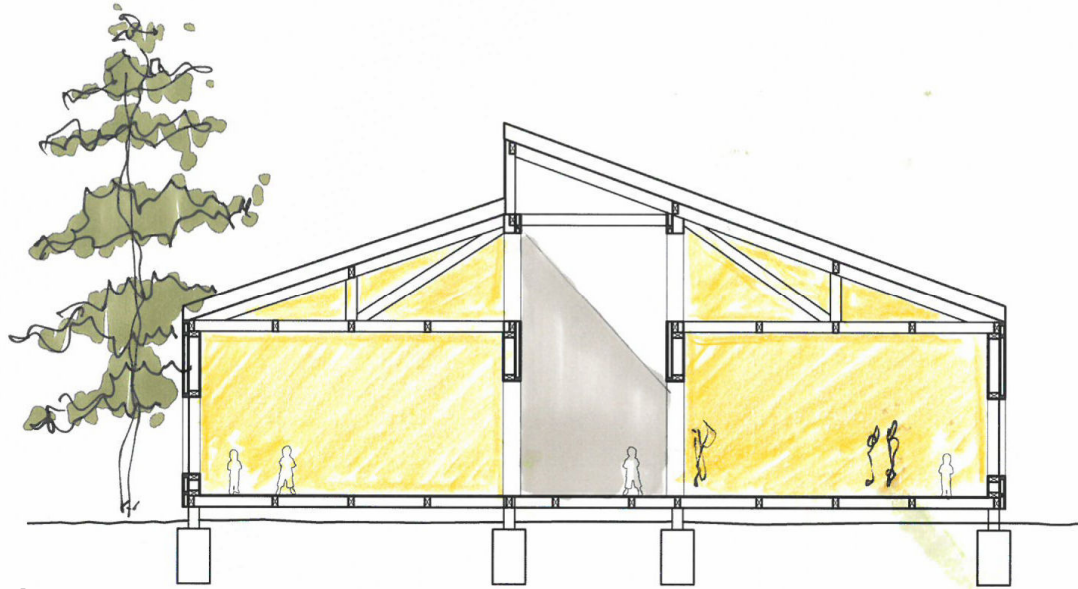


**Rear Elevation**

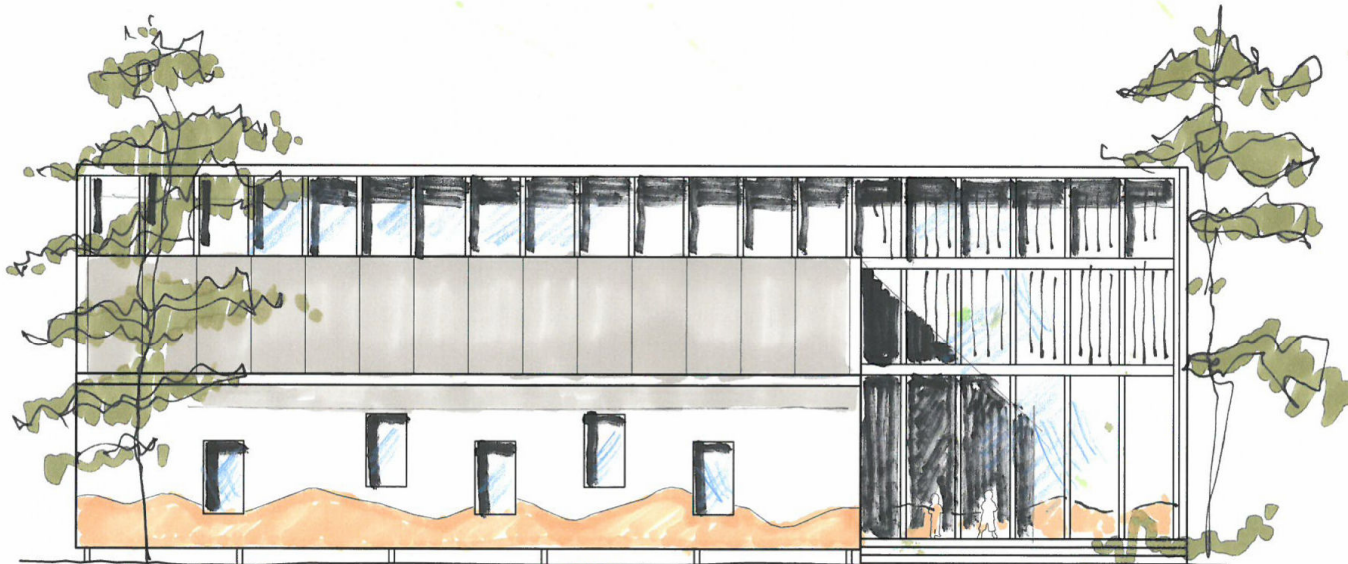


# Section & Elevation

---



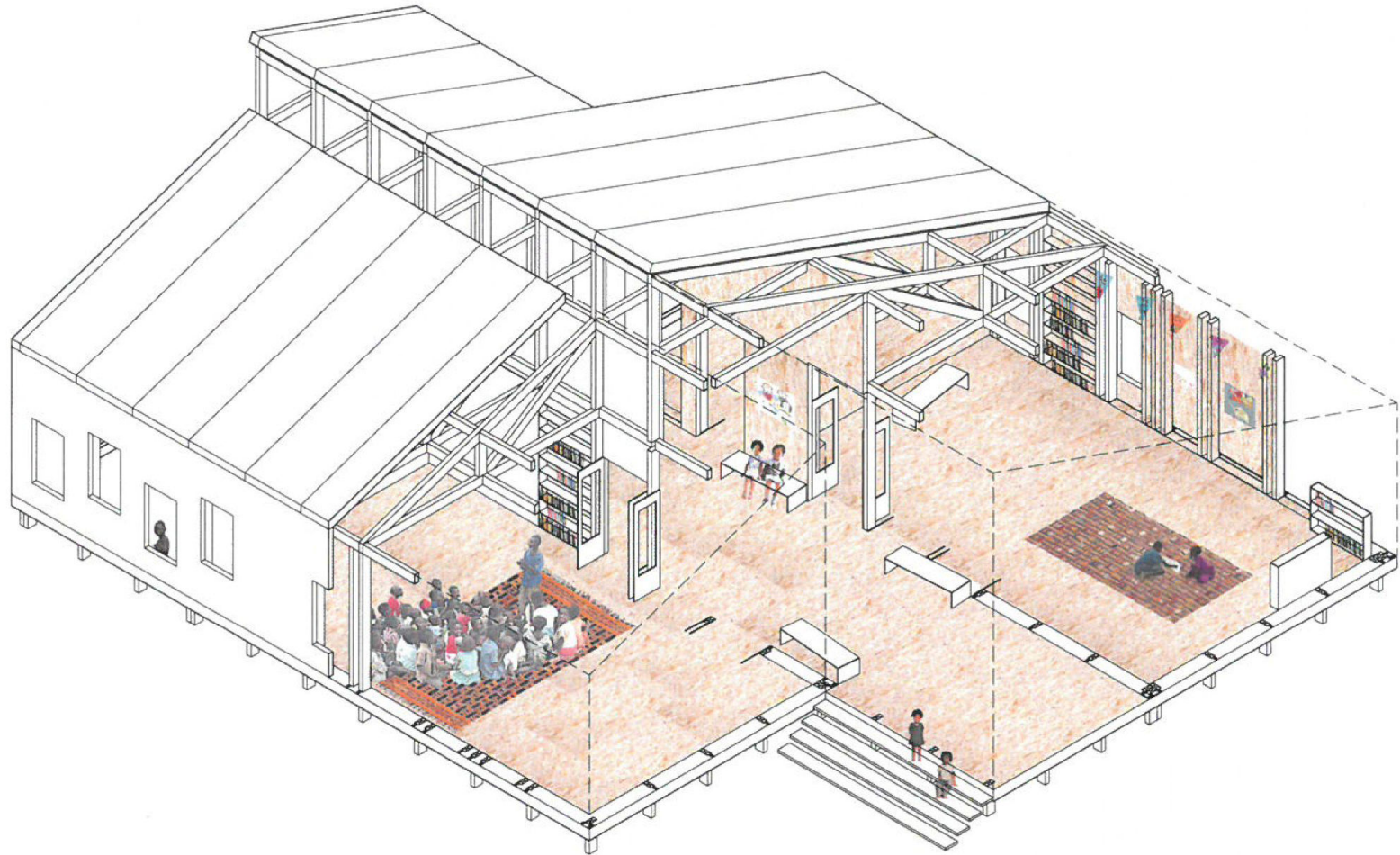
**Section**



**Front Elevation**

# 3D View

---





# Kingspan Proposal



KINGSPAN - PANELS LIST - SEE BELOW									
Description	Qty	Length	Panel App	EXT COLOUR	TS PROFILE				
SLOPE 1	20	9949	P11	ROOF	TC	KS1000RW-SL			
SLOPE 1	1	9949	P2	ROOF	TC	KS1000RW-SL			
SLOPE 2	14	6423	P3	ROOF	TC	KS1000RW-SL			
SLOPE 2	1	6423	P4	ROOF	TC	KS1000RW-SL			
ELEV 1	1	5653	P61	WALL-VT	TC	KS4810P100			
ELEV 1	1	5344	P60	WALL-VT	TC	KS4810P100			
ELEV 1	1	4944	P59	WALL-VT	TC	KS4810P100			
ELEV 1	1	4543	P57	WALL-VT	TC	KS4810P100			
ELEV 1	1	4143	P58	WALL-VT	TC	KS4810P100			
ELEV 1	1	3743	P56	WALL-VT	TC	KS4810P100			
ELEV 2	1	5217	P62	WALL-VT	TC	KS4810P100			
ELEV 2	1	4965	P67	WALL-VT	TC	KS4810P100			
ELEV 2	1	4527	P66	WALL-VT	TC	KS4810P100			
ELEV 2	1	4270	P65	WALL-VT	TC	KS4810P100			
ELEV 2	1	3913	P64	WALL-VT	TC	KS4810P100			
ELEV 2	1	3556	P63	WALL-VT	TC	KS4810P100			
ELEV 4	1	6575	P5	WALL-VT	TC	KS4810P100			
ELEV 4	1	6337	P12	WALL-VT	TC	KS4810P100			
ELEV 4	1	5937	P13	WALL-VT	TC	KS4810P100			
ELEV 4	1	5536	P14	WALL-VT	TC	KS4810P100			
ELEV 4	1	5136	P15	WALL-VT	TC	KS4810P100			
ELEV 4	1	5062	P10	WALL-VT	TC	KS4810P100			
ELEV 4	1	4735	P16	WALL-VT	TC	KS4810P100			
ELEV 4	1	4726	P9	WALL-VT	TC	KS4810P100			
ELEV 4	1	4367	P8	WALL-VT	TC	KS4810P100			
ELEV 4	1	4336	P17	WALL-VT	TC	KS4810P100			
ELEV 4	1	4010	P7	WALL-VT	TC	KS4810P100			
ELEV 4	1	3935	P18	WALL-VT	TC	KS4810P100			
ELEV 4	1	3653	P18	WALL-VT	TC	KS4810P100			
ELEV 4	1	3534	P6	WALL-VT	TC	KS4810P100			
ELEV 4	2	3336	P19	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P20	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P21	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P22	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P23	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P24	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P25	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P26	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P27	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P28	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P29	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P30	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P31	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P32	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P33	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P34	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P35	WALL-VT	TC	KS4810P100			
ELEV A	1	3336	P36	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P37	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P38	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P39	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P40	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P41	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P42	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P43	WALL-VT	TC	KS4810P100			

ELEV C	1	3336	P44	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P45	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P46	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P47	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P48	WALL-VT	TC	KS4810P100			
ELEV C	1	3336	P49	WALL-VT	TC	KS4810P100			
INT WALL	1	6572	P50	WALL-VT	TC	KS4810P100			
INT WALL	1	6572	P68	WALL-VT	TC	KS4810P100			
INT WALL	2	6572	P69	WALL-VT	TC	KS4810P100			
INT WALL	1	6572	P71	WALL-VT	TC	KS4810P100			
INT WALL	1	6572	P72	WALL-VT	TC	KS4810P100			
INT WALL	1	6572	P73	WALL-VT	TC	KS4810P100			
INT WALL	1	6572	P74	WALL-VT	TC	KS4810P100			
INT WALL	1	6572	P75	WALL-VT	TC	KS4810P100			
INT WALL	1	6572	P76	WALL-VT	TC	KS4810P100			
INT WALL	3	4472	P70	WALL-VT	TC	KS4810P100			
INT WALL	1	4360	P51	WALL-VT	TC	KS4810P100			
INT WALL	1	4360	P52	WALL-VT	TC	KS4810P100			
INT WALL	1	4360	P53	WALL-VT	TC	KS4810P100			
INT WALL	1	4360	P54	WALL-VT	TC	KS4810P100			
INT WALL	1	4360	P55	WALL-VT	TC	KS4810P100			

PART LIST 16.06.2015 TOTALS 112 ITEMS 635 506 LINEAR METRES

FOR INFORMATION ONLY  
\* NOT FOR PRODUCTION \*

END PANEL LINE TO BE CUT HERE

END PANEL LINE TO BE CUT HERE

\*\*\*PANEL SPECIFICATION\*\*\*  
KS1000RW-SL  
STEEL  
KL FORTE  
0.53  
TBC  
ECOSAFE HCFC FREE  
150  
STEEL  
POLYESTER  
0.40  
WHITE  
RW  
NA  
ROOF

\*\*\*PANEL SPECIFICATION\*\*\*  
KSAB150\*1100  
STEEL  
TBC  
0.63  
TBC  
ECOSAFE HCFC FREE  
150  
STEEL  
POLYESTER  
0.40  
WHITE  
NA  
WALL-VT

WINDOW OPES TO BE CUT OUT ON SITE

\*\*\*PANEL SPECIFICATION\*\*\*  
KSAB150\*1100  
STEEL  
TBC  
0.53  
TBC  
ECOSAFE HCFC FREE  
150  
STEEL  
POLYESTER  
0.40  
WHITE  
NA  
WALL-VT

3D  
1:50

GLAZING AREA HERE BY OTHERS

\*\*\*PANEL SPECIFICATION\*\*\*  
KS1000RW-SL  
STEEL  
KL FORTE  
0.53  
TBC  
ECOSAFE HCFC FREE  
150  
STEEL  
POLYESTER  
0.40  
WHITE  
RW  
NA  
ROOF

KINGSPAN INSULATED PANELS  
Carnhemones Road  
Kingspan, Co. Caran.  
Rep Of Ireland  
Tel: +353 42 909500  
Fax: +353 42 909503  
Kingspan  
Insulated Panels  
A1 SIZE

NOTES:  
THIS DRAWING IS COPYRIGHT AND IS SENT TO YOU IN CONFIDENCE. IT MUST NOT BE COPIED, USED OR DISCLOSED IN WHOLE OR IN PART, TO THIRD PARTIES WITHOUT OUR WRITTEN PERMISSION. IT REMAINS THE PROPERTY OF KINGSPAN LIMITED AND MUST BE RETURNED ON REQUEST.

PROPOSAL ONLY

REV	DETAILS	DATE
1		
KINGSPAN INSULATED PANELS Carnhemones Road - Kingspan, Co. Caran Rep Of Ireland Tel: +353 42 909500 Fax: +353 42 909503 www.kingspanpanels.com		
DRAWN BY	CHKD BY	DATE
Mao		16.05.2015
CLIENT	Kingspan	
CONTRACT	ECDC LESOTHO Ha Hlalele , Lesotbo	
DRAWING TITLE	3D VIEW 1 PANELS LAYOUT	
DRAWING NO:	KS-GA-001	

## NOTES

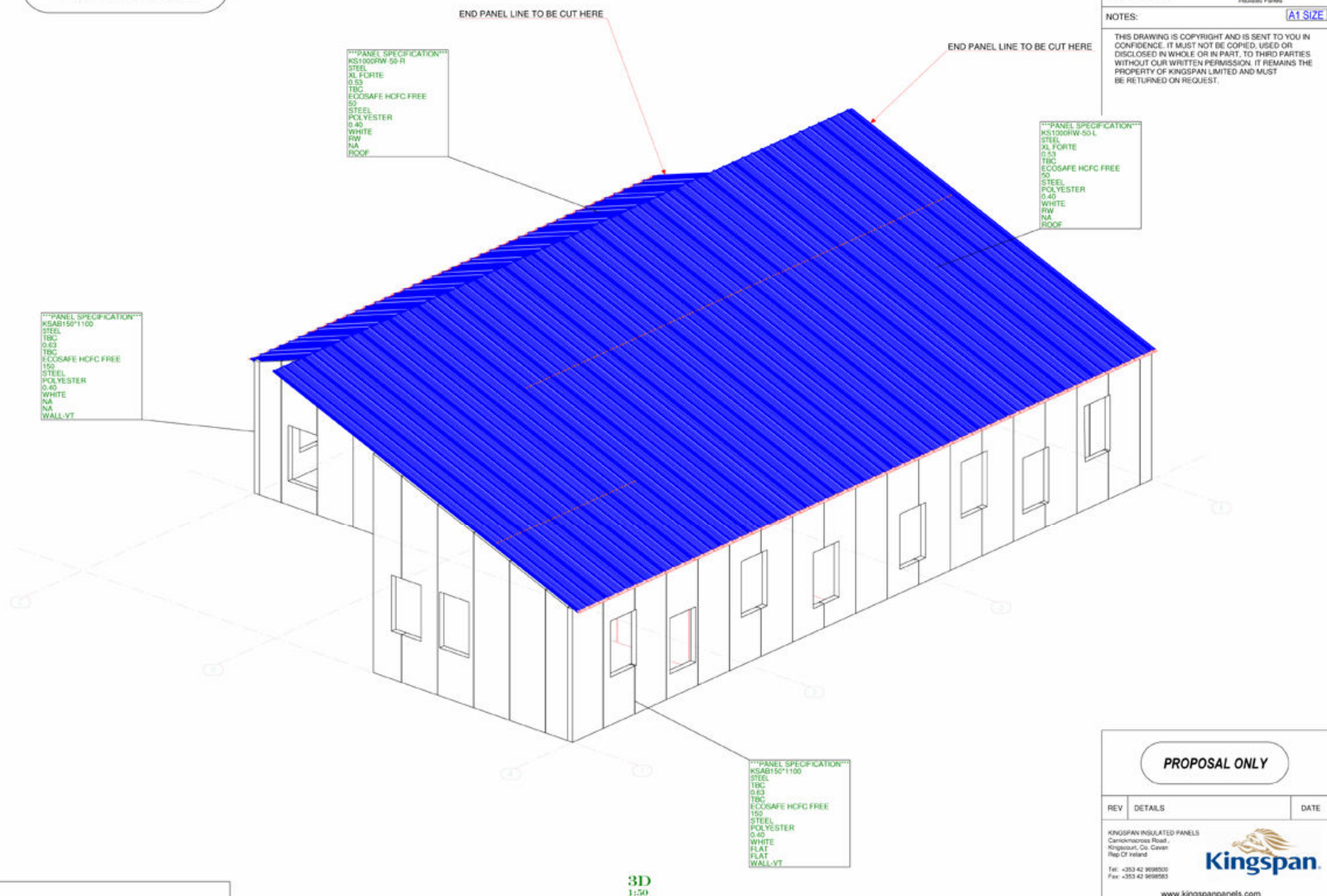
- This is a Preliminary Proposal Only and only INSULATED PANELS have been modelled.
- Flashings and structural Steel or timber have not been modelled.
- Structural Design to be confirmed.
- Roof Panel, External Wall Panel, and Internal Wall Panel colour/finish etc to be decided
- ALL WINDOW/DOOR CILL AND HEAD HEIGHTS TO BE CONFIRMED BY CONTRACTOR



FOR INFORMATION ONLY  
\* NOT FOR PRODUCTION\*

**-NOTES**

- This is a Preliminary Proposal Only and only INSULATED PANELS have been modelled.
- Flashings and structural Steel or timber have not been modelled.
- Structural Design to be confirmed.
- Roof Panel, External Wall Panel, and Internal Wall Panel colour/finish etc to be decided
- ALL WINDOW/DOOR CILL AND HEAD HEIGHTS TO BE CONFIRMED BY CONTRACTOR



KINGSPAN INSULATED PANELS  
Camdenacross Road  
Kingscourt, Co. Cavan.  
Rep of Ireland

Tel: +353 42 3608500  
Fax: +353 42 3608563

  
**Kingspan.**  
Insulated Panels

NOTES: A1 SIZE

THIS DRAWING IS COPYRIGHT AND IS SENT TO YOU IN CONFIDENCE. IT MUST NOT BE COPIED, USED OR DISCLOSED IN WHOLE OR IN PART, TO THIRD PARTIES WITHOUT OUR WRITTEN PERMISSION. IT REMAINS THE PROPERTY OF KINGSPAN LIMITED AND MUST BE RETURNED ON REQUEST.

<b>PROPOSAL ONLY</b>			
REV      DETAILS			DATE
KINGSPAN INSULATED PANELS Cendermaharossa Road Kingsport, Co. Carlow Rep Of Ireland  Tel : +353 43 3695800 Fax : +353 43 3695803			
<a href="http://www.kingspanpanels.com">www.kingspanpanels.com</a>			
DRAWN BY	CHKD BY	DATE	SCALE
<b>Mac</b>		<b>16.05.2015</b>	<b>1:50</b>
CLIENT <b>Kingspan</b>			
CONTRACT: <b>ECDC LESOTHO Ha Hlaiele , Lesotho</b>			
DRAWING TITLE: <b>3D VIEW 2 PANELS LAYOUT</b>			
DRAWING NO: <b>KS-GA-002</b>			





