



Alba Building Sciences Ltd

Norham, Perth Road, Blairgowrie, PH10 6EJ

www.albasciences.com

CERT Demonstration Action UK Park Homes

SCHEME REF: SSEN09132

Alba Report 21050

Appendix 5

SAP 2005 v TARBASE

Comparison

Comparison: SAP v TARBASE

UNIT AND BASIS OF ASSESSMENT	TER PRE IMPROVEMENTS	DER PRE IMPROVEMENTS	COST / EMISSION PRE IMPROVE & EMISSIONS	DER POST IMPROVEMENTS	COST / EMISSION POST IMPROVE	% DUE TO IMPROVE IN VARIOUS TERMS
AP 47	29.65	56.27	£807 288kWhr/m2 Year 4.65 Tonnes Of CO2	33.86	£512 176kWhr/m2/Year 2.80 Tonnes Of CO2	COSTS IMPROVEMENT = 36.56% ENERGY CONSUMPTION IMPROVEMENT =38.89% EMISSIONS TOTAL /YEAR FOR UNIT IMPROVEMENT =39.78%
ELEMENTAL PRE IMPROVEMENTS				ELEMENTAL POST IMPROVEMENTS		
WALL 0.51 W/m2K				WALL 0.19 W/m2K		62.75% FABRIC REDUCTION
ROOF 0.49 W/m2K				ROOF 0.16 W/m2K		67.35% FABRIC REDUCTION
FLOOR 0.48 W/m2K				FLOOR 0.15 W/m2K		68.75% FABRIC REDUCTION

UNIT AND BASIS OF ASSESSMENT	TER PRE IMPROVEMENTS	DER PRE IMPROVEMENTS	COST / EMISSION PRE IMPROVE & EMISSIONS	DER POST IMPROVEMENTS	COST / EMISSION POST IMPROVE	% DUE TO IMPROVE IN VARIOUS TERMS
AP 37	27.31	69.10	£995 353kWhr/m2 /year 5.81Tonnes / year	36.84	£562.69 191kWhr/m2 /year 3.15Tonnes /year	COSTS IMPROVEMENT =43.45% ENERGY CONSUMPTION IMPROVEMENT =45.89% EMISSIONS TOTAL/YEAT FOR UNIT IMPROVEMENT =45.78%
ELEMENTAL PRE IMPROVEMENTS				ELEMENTAL POST IMPROVEMENTS		
WALL 1.39 W/m2K				WALL 0.30 W/m2K		FABRIC REDUCTION =78.42%
ROOF 0.84 W/m2K				ROOF 0.23 W/m2K		FABRIC REDUCTION =72.62%
FLOOR 1.21 W/m2K				FLOOR 0.39 W/m2K		FABRIC REDUCTION =67.78%