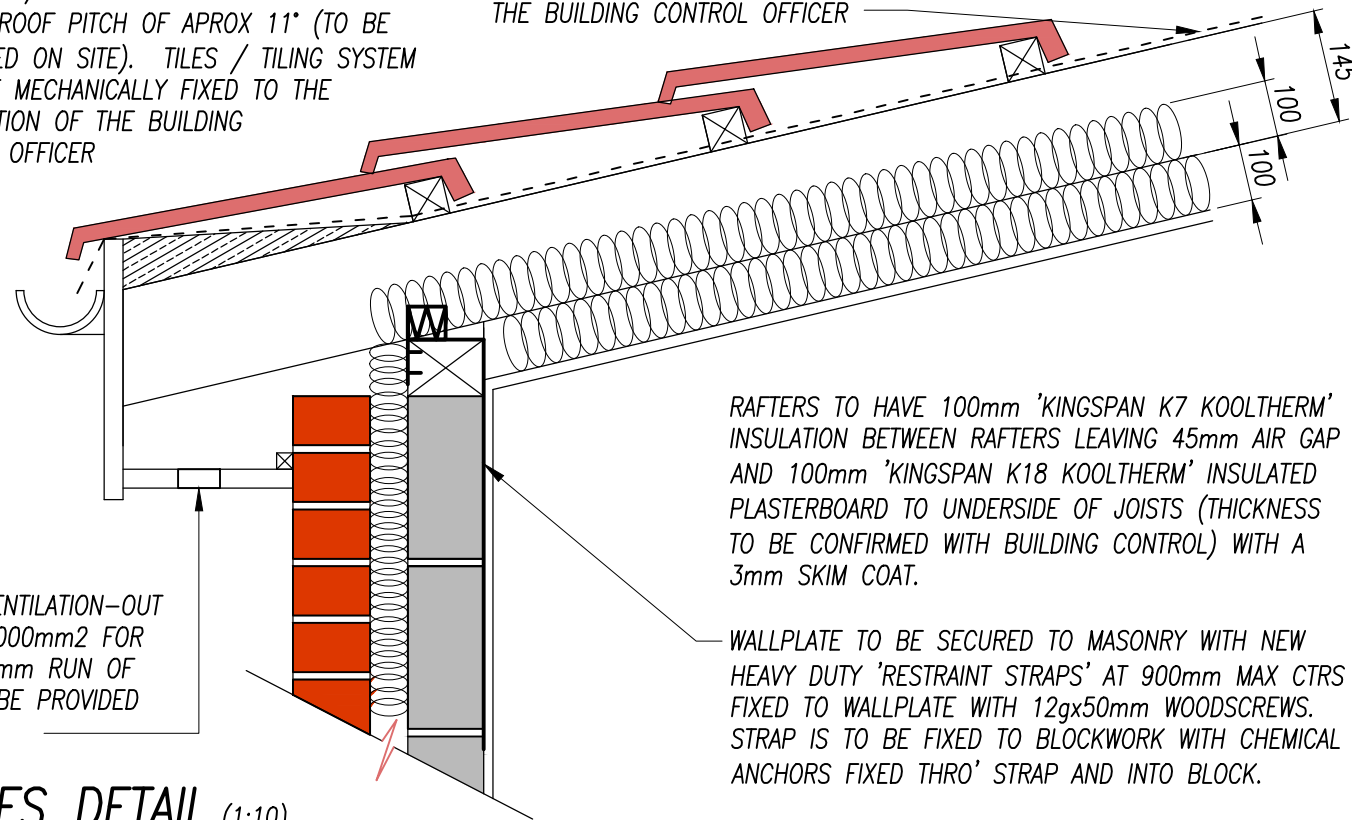


ROOF FINISHES ARE TO MATCH THE EXISTING FINISHES WHERE POSSIBLE TO BS 5534:2014. NEW TILES / SHALLOW PITCH TILING SYSTEMS TO SUIT ROOF PITCH OF APPROX 11° (TO BE CONFIRMED ON SITE). TILES / TILING SYSTEM IS TO BE MECHANICALLY FIXED TO THE SATISFACTION OF THE BUILDING CONTROL OFFICER

BREATHABLE SARKING MEMBRANE WITH 100mm VERTICAL LAP BETWEEN RUNS. MEMBRANE TO BE SECURELY FIXED TO THE SATISFACTION OF THE BUILDING CONTROL OFFICER



POSITIVE VENTILATION—OUT RATE OF 3000mm<sup>2</sup> FOR EVERY 300mm RUN OF EAVES—TO BE PROVIDED AT SOFFIT

RAFTERS TO HAVE 100mm 'KINGSPAN K7 KOOLTHERM' INSULATION BETWEEN RAFTERS LEAVING 45mm AIR GAP AND 100mm 'KINGSPAN K18 KOOLTHERM' INSULATED PLASTERBOARD TO UNDERSIDE OF JOISTS (THICKNESS TO BE CONFIRMED WITH BUILDING CONTROL) WITH A 3mm SKIM COAT.

WALLPLATE TO BE SECURED TO MASONRY WITH NEW HEAVY DUTY 'RESTRAINT STRAPS' AT 900mm MAX CTRS FIXED TO WALLPLATE WITH 12gx50mm WOODSCREWS. STRAP IS TO BE FIXED TO BLOCKWORK WITH CHEMICAL ANCHORS FIXED THRO' STRAP AND INTO BLOCK.

**EAVES DETAIL (1:10)**

(NEW ROOF TO SIDE EXTENSION - VAULTED CONSTRUCTION)

**GENERAL ROOF NOTES TO EXTENSION:**

THE HOUSEHOLDER HAS REQUESTED THAT THE HORIZONTAL CEILING JOISTS BE OMITTED FROM THE DESIGN TO OPEN UP THE ROOF AS A VAULTED SPACE TO BETTER FACILITATE 'VELUX' TYPE ROOF LIGHTS..

AS THIS SECTION OF ROOF IS A MONO PITCH TYPE DESIGN, THEREFORE, LOADING WILL TRAVEL IN A VERTICAL DOWNWARD DIRECTION WITH NO RELIANCE ON HORIZONTAL CEILING JOISTS TO ASSIST LATERAL RESTRAINT. PUSH / THRUST WILL NOT BE PRESENT AT THE HEAD OF THE WALL / WALLPLATE.

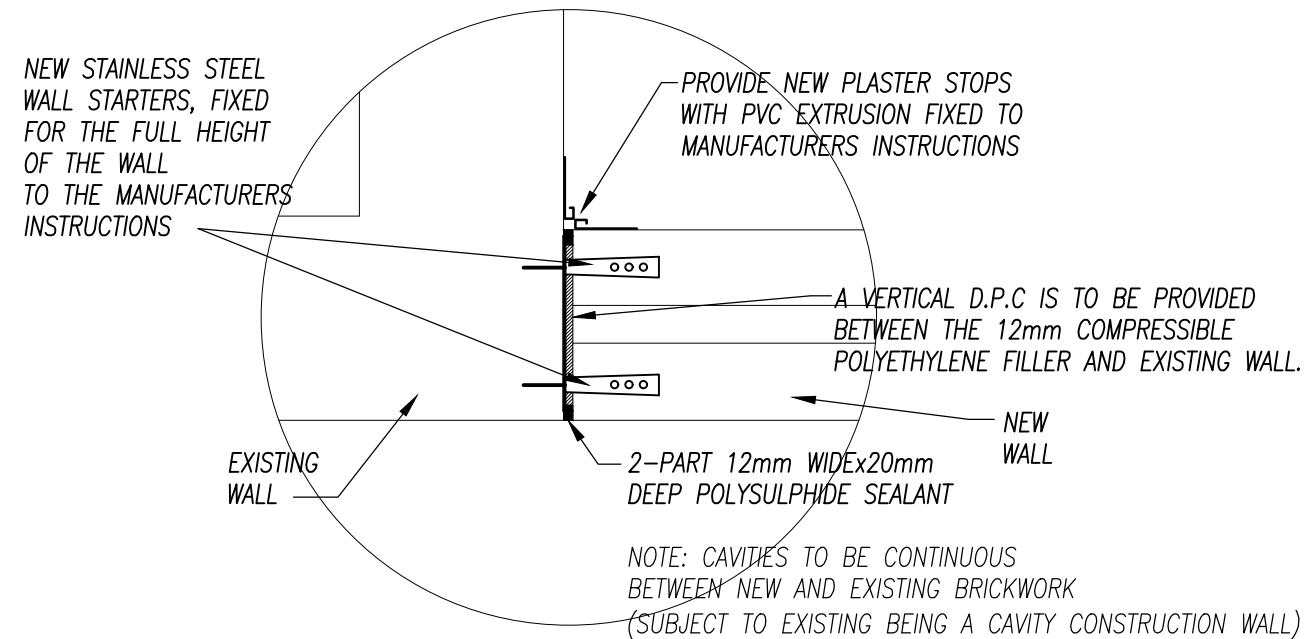
RAFTER SIZES HAVE BEEN TAKEN FROM THE 'TRADA' SPAN TABLES. - ALLOW FOR 47x145 GRADE C16 (SC3) TIMBER RAFTERS AT 400mm C.T.RS (MAX SPAN 2.96m), FULLY SECURED TO WALLPLATES WITH SUITABLE CONNECTORS / CLIPS FIXED TO MANUFACTURERS INSTRUCTIONS. (NOTE - AS THE ROOF PITCH IS APPROXIMATELY 11° FLAT ROOF JOISTS HAVE BEEN USED TAKEN FROM THE TRADA TABLE CHARTS)

RAFTERS TO BE DOUBLED UP EACH SIDE OF ANY NEW 'VELUX' TYPE GLAZED ROOF LIGHTS.

RAFTERS TO HAVE LEVEL HORIZONTAL BEARINGS AT THEIR CONNECTION WITH WALLPLATES

FINAL DESIGN / LAYOUT FOR THE NEW ROOF (INCLUDING BRACING REQUIRED BY BUILDING CONTROL) IS TO BE CARRIED OUT BY THE APPOINTED CONTRACTOR. THIS IS TO TAKE ACCOUNT OF PREFERRED CONSTRUCTION METHODS. ANY CHANGES TO THE ABOVE ARE TO BE AGREED WITH THE BUILDING CONTROL OFFICER.

DUE TO THE SHALLOW PITCH OF THE NEW ROOF (APPROX 11°) THE APPOINTED CONTRACTOR IS TO CONSIDER ALTERNATIVES TO STANDARD ROOF TILES. AN EXAMPLE OF THIS ARE TILING SYSTEMS / TILING SHEETING PROVIDED BY MANUFACTURERS SUCH AS 'ONDULINE' OR OTHER SIMILAR APPROVED SYSTEMS TO THE SATISFACTION OF THE BUILDING CONTROL OFFICER. THE APPOINTED CONTRACTOR MUST ENSURE THAT THE TILES / TILING SYSTEM USED IS SUITABLE FOR THE FINAL GRADIENT (APPROX 11°)



**TYPICAL MOVEMENT JOINT DETAIL ( 1:10 )**

(JUNCTION OF NEW WALLS AND EXISTING WALLS)

SECOND DRAFT FOR CONTRACTOR  
DISCUSSIONS / LOCAL AUTHORITY APPROVALS

LOCATION ADDRESS: <b>8 PARKFIELD GROVE, MAGHULL L31 7DD</b>		DRAWING TITLE: STRUCTURAL DETAILS No2		DRG PRINTED AT A3 SIZE	
		PROJECT DESCRIPTION: - DEMOLISH REAR GARAGE AND PROVIDE A SINGLE STOREY SIDE EXTENSION ALSO COVERING FOOTPRINT OF GARAGE		DATE: MAR 20	SHEET No: 13 OF 14
				DRAWING NUMBER: <b>IW/0320/13</b>	