

## Typical calculation sheet

DOMESTIC HEATING DESIGN GUIDE							
WORKSHEET ONE – HEAT LOSSES							
ROOM KITCHEN / DINING						Page 2 of 6	
	No. of air changes per hour	Room volume Enter measurements			Amount of air to be heated per hour Calculate m <sup>3</sup> /hour	Enter factor	Heat loss/°C Calculate W/K
	ach	Length m	Width m	Height m			
<b>VENTILATION HEAT LOSS</b>	2	4.9	2.7	2.4	61.50	x 0.33 =	20.96
<b>FABRIC HEAT LOSS</b>					Area m <sup>2</sup>	U-value W/m <sup>2</sup> /K	
FLOOR		4.9	2.7		13.23	0.79	10.45
WALL		7.6		2.4	18.24	0.60	10.94
GLAZING (U = Glazing U - Wall U)		1.1		1.05	1.16	2.20	2.54
DOOR (U = Door U - Wall U)		1.75		2.10	3.66	2.20	8.09
ROOF							
ROOF GLAZING (U = Glazing U - Wall U)							
OTHER 1							
PARTY WALL (U = 1/2 of insulated value)							
<b>DESIGN ROOM TEMPERATURE</b>		21	<b>TOTAL HEAT LOSS/°C (W/K) (sum of above)</b>				52.98
- OUTSIDE TEMPERATURE		-3					
= TEMPERATURE DIFFERENCE		24					
		<b>= DESIGN HEAT LOSS (W)</b>				1272	
EXPOSED LOCATION?	yes	if yes, add	10	% to design heat loss (see 8.5)			127
HIGH CEILING?	no	if yes, add	0	% to design heat loss (see 8.8)			
INTERMITTENT HEATING	Add		10	% to design heat loss (see 8.8)			127
		<b>Total room heat loss W (enter on Worksheet 3)</b>				1526	

Taken from CIBSE Domestic Heating Design Guide

# Domestic Heating Design Guide Heat Loss Sheet

**SA Dillow**



## **Domestic Heating Design Guide Heat Loss Sheet:**

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*Building Services Journal* ,2001    **Heating, Ventilating, Air Conditioning Guide** ,1925    *Domestic Engineering Plumbing-heating Catalog and Directory* ,1963    *American Society of Heating and Ventilating Engineers Guide* ,1924  
**Energy Research Abstracts** ,1988    *The Heating and Ventilating Magazine* ,1924    **Progressive Architecture** ,1957    **Building Systems Design** ,1929    *American Society of Heating and Ventilating Engineers Guide* ,1960  
**Heating & Air Conditioning Contractor** ,1929    **NBS Special Publication** ,1968    *Merchant Plumber and Fitter* ,1924    Abstracts of Instructional Materials in Vocational and Technical Education ,1972    **Warm Air Heating & Air Conditioning Library** National Warm-Air Heating and Air Conditioning Association (U.S.),1961    Air Conditioning, Heating and Ventilating ,1959    Gas ,1947    **Fueloil & Oil Heat** ,1952-03    **Sheet Metal Worker** ,1932    *Building Technology Publications* ,1978

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