

## SPECIFICATION AND DESIGN CONSIDERATIONS

- Durability of lead will depend upon the thickness and size of the piece of lead sheet, see Table 3, 5, 6 and 7.
- When specifying thickness, also make allowances for :
  - anticipated life of building concerned (longer the life, heavier the code)
  - bossing or dressing
  - vulnerability to wind lift
  - mechanical wear due to foot traffic
  - risks of moss or lichen growth.
- The use of thicker lead in longer pieces can be more economical than using thinner material with additional joints, particularly when detailing gutter linings.
- \*Consider ventilation of the void between the substrate and insulation. Refer to Building Regulations and British Standards 6229 and 5250 for guidance.
- Current British Standard relevant to the installation of Leadwork is BS 6915 : 1988
- If considering Lead Sheet for damp proof course both sides must be treated with bitumastic paint.
- All lead sheet should comply with BS1178 : 1982 milled lead sheet for building purposes.

## Thickness of lead sheet for various uses

Type of Application	Sheltered/Moderate Exposure		Severe Exposure		Historic/Listed Buildings						
	BS1178 code No.		BS1178 code No.		BS1178 code No.						
Flat roofing *	5 or 6		6 or 7		7 or 8						
Parapet, box and tapered valley gutters *	5 or 6		6 or 7		6, 7 or 8						
Pitched roofs *	4, 5 or 6		6 or 7		7 or 8						
Vertical cladding *	4 or 5		5 or 6		6 or 7						
Dormer cheeks *	4 or 5		5 or 6		5, 6 or 7						
Dormer roofs *	4 or 5		5 or 6		6, 7 or 8						
Chimney flashings: back gutters apron and side flashings	4 or 5		5 or 6		5 or 6						
Lead slates	4 or 5		4 or 5		5 or 6						
Hip and ridge flashings	4 or 5		5 or 6		6, 7 or 8						
Pitched valley gutters	4 or 5		4 or 5		6 or 7						
Weatherings to cornices and parapets etc	4 or 5		5 or 6		6 or 7						
Damp proof courses	4 or 5		4 or 5		4 or 5						
Apron and cover flashings	4 or 5		5 or 6		5, 6 or 7						
Soakers	3		3 or 4		3 or 4						
BS1178 Code No	Table 3 Flat Roofs		Table 5 Pitched Roofs		Table 5 Pitched Roofs		Table 6 Vertical Cladding		Table 7 Gutter Linings		
			Roof slopes above 10° up to and including 60°		Roof slopes above 60° up to and including 80°						
	Maximum spacing of joints with the fall mm	Maximum distance between drips mm	Maximum spacing of joints with the fall mm	Maximum distance between laps mm	Maximum spacing of joints with the fall mm	Maximum distance between laps mm	Maximum spacing of vertical joints mm	Maximum distance between laps mm	Maximum length between drips mm	Maximum overall girth mm	
	4	500	1500	500	1500	500	1500	500	1500	1500	750
	5	600	2000	600	2000	600	2000	600	2000	2000	800
	6	675	2250	675	2250	675	2250	600	2000	2250	850
7	675	2500	675	2400	675	2250	650	2250	2500	900	
8	750	3000	750	2500	750	2250	700	2250	3000	1000	

**Lead Sheet Association**  
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Standard Detail Sheet No. 1R  
Title: Specifying Thickness

Contract Information

Practice Details

Publication Reference Lead Sheet Manual Volumes ONE, TWO, THREE  
and UPDATE No.2