

**BELL SYSTEM PRACTICES**  
**Outside Plant Construction**  
**and Maintenance**

**SECTION G81.190.1**  
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## L MASONRY DRILLS

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### 1. GENERAL

1.01 This section deals with the L Masonry Drills which are available for drilling holes in masonry walls to take the anchoring devices used to secure the various building attachments associated with Drop and Block Wiring and House, Block and U.G. Cable Construction.

1.02 **Precautions:** Observe the following precautions in drilling operations:

- (a) When drilling holes in masonry walls, **goggles shall be worn** to protect eyes from flying chips and other foreign substances.
- (b) Do not attempt drilling in explosive atmosphere such as is found in gassy manholes because of the sparks thrown off by the drilling.

### 2. DESCRIPTION OF L MASONRY DRILLS

2.01 These drills have spiral fluting similar to twist drills used in boring metal. The cutting ends are pointed in the manner of diamond pointed types of masonry drills. The L Masonry Drills are designed to fit into L Drill Holder in hand drilling and Drill Holder for Electric Hammer in power drilling. The drills are illustrated on the following page.



L Masonry Drill

- 2.02 The available sizes of L Masonry Drills are tabulated below.

<u>Drill Size</u>	<u>Over-all Length</u>
3/16"	2-5/8"
1/4" short	3-1/4"
1/4" long	6"
5/16" short	4-1/4"
5/16" long	6"
3/8"	5-1/16"
1/2"	5-9/16"

### 3. USE OF MASONRY DRILLS

3.01 L Masonry Drills give best results when in good condition. If cutting edges are dull, the drilling will be slow and laborious. Where the cutting edges are not of equal length or the point is off center, the drill will jam and produce a hole larger than the drill size.

3.02 L Masonry Drills clean holes while drilling and upon removal, the holes are ready to receive the anchors or expansion shields.

3.03 In drilling masonry walls strike masonry drill holder with light hammer blows. Do not rock the drill but turn it slightly between hammer blows. This drilling procedure requires less physical effort and results in faster and cleaner cutting by the drill. Heavy hammer blows cause drills to jam in holes thereby making it difficult to dislodge.

#### 4. CARE OF MASONRY DRILLS

4.01 Each workman should assume responsibility for determining the working condition of the drills assigned to him. The following defects greatly impair the drilling efficiency of L Masonry Drills.

- (a) Dull cutting edges or edges badly nicked.
- (b) Cutting edges of unequal length and angle formed with axis of the drill not uniform.
- (c) Bent drills.
- (d) Broken points.
- (e) Diameter reduced by wear to point where drilled hole is too small for anchor.

4.02 Defective drills should be returned for replacement in accordance with local instructions.

4.03 Drills when not in use should not be left lying around in public places. Store them away in their proper places.