

# BRACE-RITE

## Masonry Bracing System

### INTRODUCTION

In response to a growing need for specific information on the critical issue of how masonry walls should be braced, the Council for Masonry Wall Bracing has prepared a guideline of recommended wall bracing methods. The primary goal of this guideline is life safety of workers and the secondary goal is property protection.

DUR-O-WAL's BRACE-RITE system provides a fast and economical means for meeting the requirements of this guideline. The system consists of a number of components including a pipe brace assembly, strongbacks, struts and earth augers. The need for some or all of these components in a particular application is determined by wall dimensions, job site conditions and the personal preferences of the masonry contractor.

DUR-O-WAL BRACE-RITE Pipe Braces may be used in many different masonry construction applications. Their proper relationship of strength to weight permits ease of handling while providing rugged braces which are easily adjusted. The mounting plate of the brace is attached to the masonry and a backing plate with wall ties. The base of the brace is attached to a variety of connections depending on job conditions.

The base assembly of DUR-O-WAL's BRACE-RITE Pipe Braces is attached to a 1 1/2" diameter adjusting threaded rod. This galvanized threaded rod has 4 (four) 1/2" contour threads to the inch making it fast and non-clogging. A weld spot at the top of the thread adjusting rod prevents accidental removal.

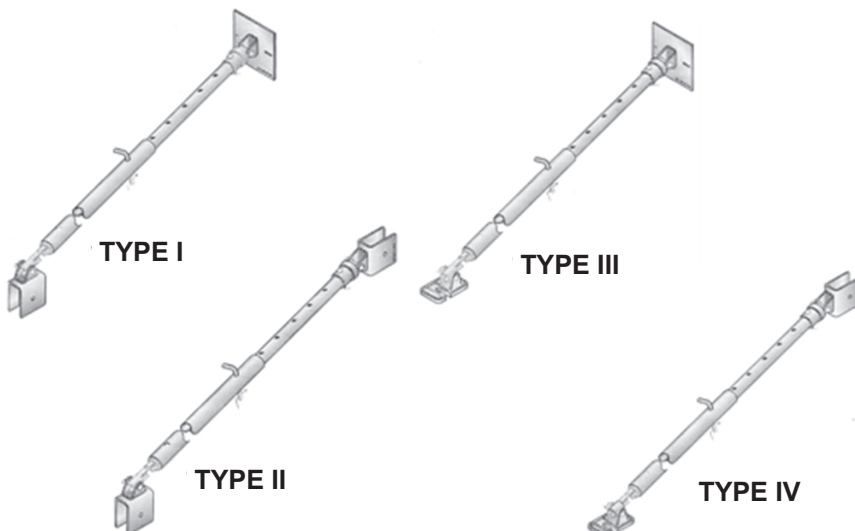
The telescoping pipe braces can be rough adjusted in increments of 6" by aligning the pin holes in the two pipes. Finer adjustment can be attained by simply rotating the entire pipe assembly clockwise or counter-clockwise as required. The brace is mounted in such a manner that the adjustment rod is toward the lower grade anchor point.

### COMPONENTS

The DUR-O-WAL BRACE-RITE Pipe Braces are available in three sizes to accommodate various wall dimensions.

BRACE DESIGNATION	DESCRIPTION	BRACE LENGTH	
		MIN.	MAX.
BRACE-RITE BR20	Regular Pipe Brace	13' 0"	20' 6"
BRACE-RITE BR23	Heavy Duty Regular Pipe Brace	14' 6"	23' 6"
BRACE-RITE BR39	Heavy Duty Long Pipe Brace	22' 6"	39' 0"

When ordering braces, indicate the brace designation and assembly type. Brace assembly types apply to BR20, BR23, and BR39 designations.



**Table 1-Safe Working Loads for Braces**  
(based on a safety factor of 1.5)

BRACE LENGTH	BRACE DESIGNATION		
	BR20	BR23	BR39
13' 0"	5800	NA	NA
14' 0"	5000	NA	NA
15' 0"	4200	6500	NA
16' 0"	3460	6500	NA
17' 0"	2975	6270	NA
18' 0"	2750	5250	NA
19' 0"	2275	4100	NA
20' 0"	1975	3575	NA
21' 0"	NA	2880	NA
22' 0"	NA	2410	NA
23' 0"	NA	2080	5585
24' 0"	NA	NA	4905
25' 0"	NA	NA	4250
26' 0"	NA	NA	3325
27' 0"	NA	NA	2715
28' 0"	NA	NA	2280
29' 0"	NA	NA	1850
30' 0"	NA	NA	1600
31' 0"	NA	NA	1250

**MASONRY**