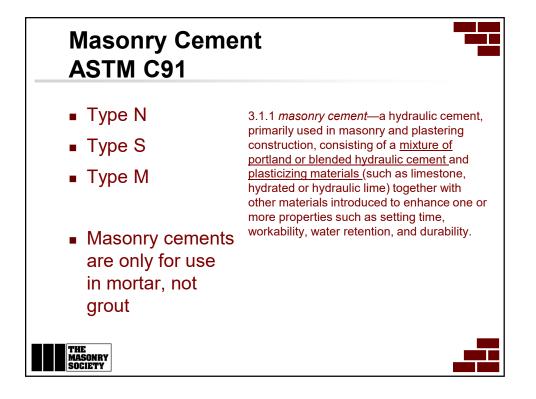


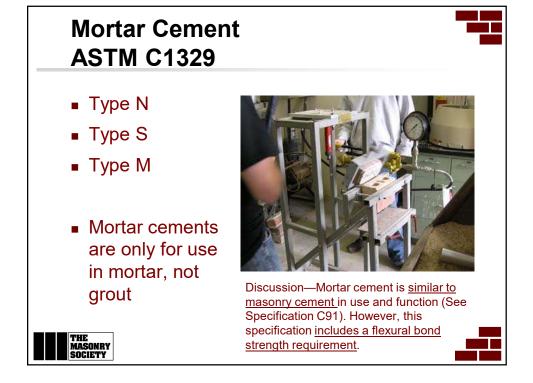
Performance Cement ASTM C1157

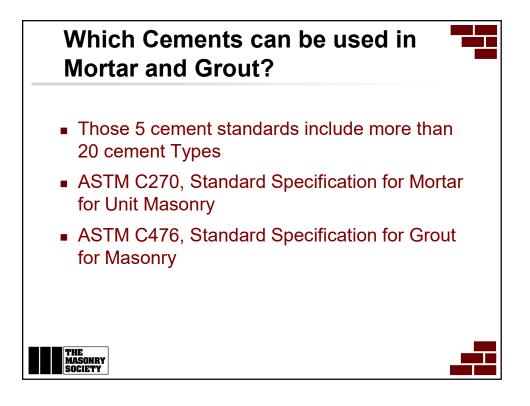
(few restrictions on the composition of the cement or its constituents)

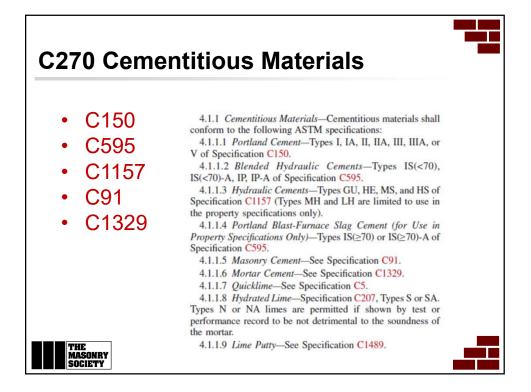
- Type GU general use
- Type HE high early strength
- Type MS moderate sulfate resistance
- Type HS high sulfate resistance
- Type MH moderate heat of hydration
- Type LH low heat of hydration
- C1157 can be PLCs and can have any amount of limestone as long as they can achieve properties

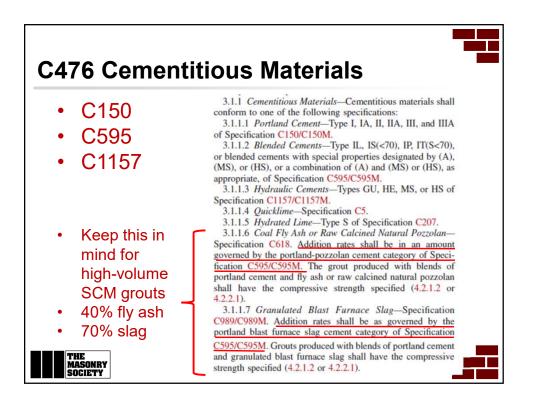
THE MASONRY Society

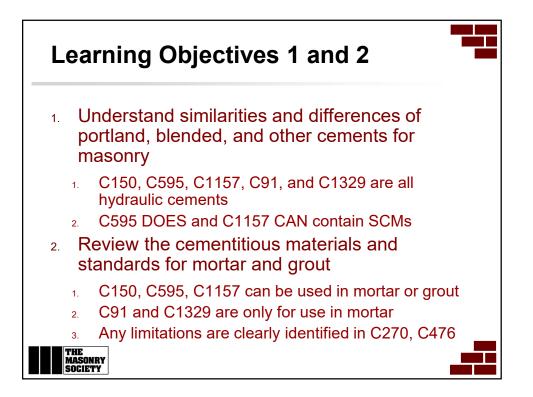


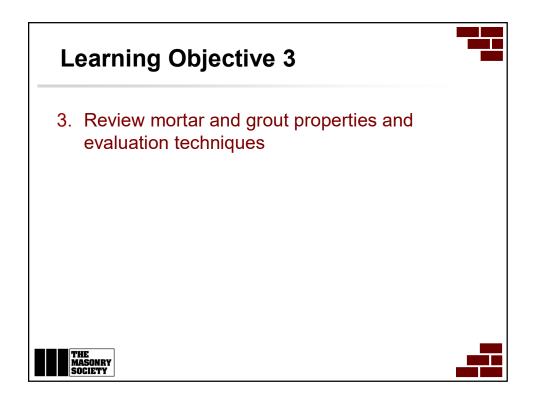


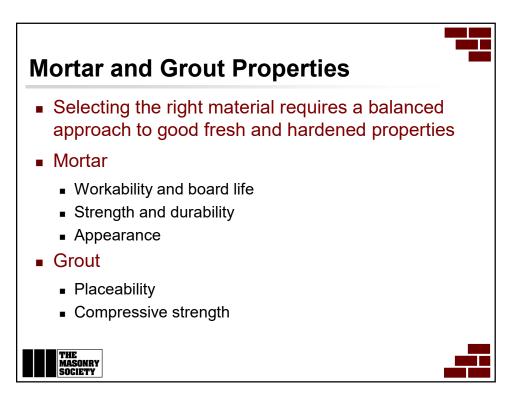


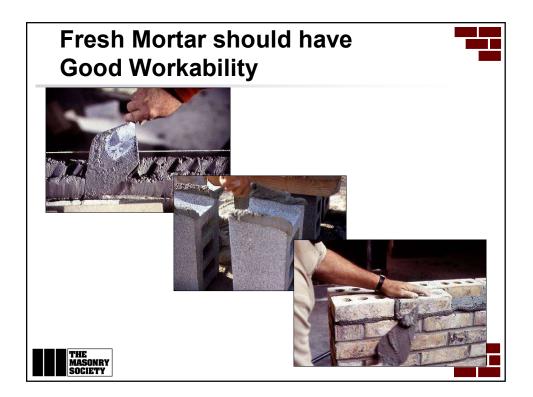












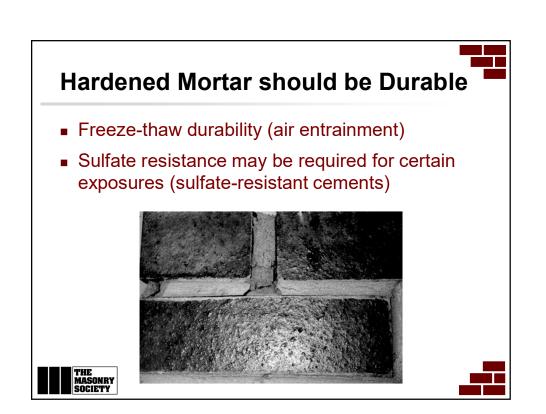
Fresh Mortar should have Good Board Life

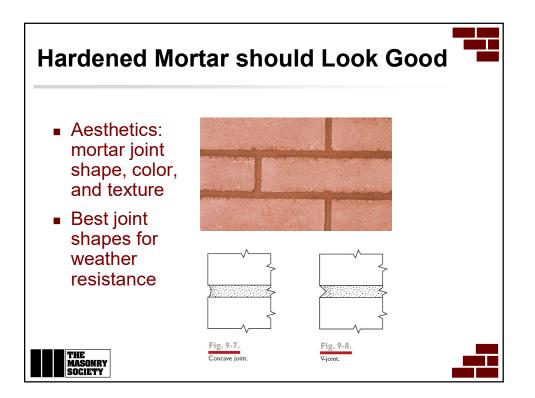
- Goal is to have a workable, plastic, consistent mixture
- Board life indicates length of time that mortar retains adequate workability
- Mortar typically can be used for up to 2-1/2 hours after initial mixing

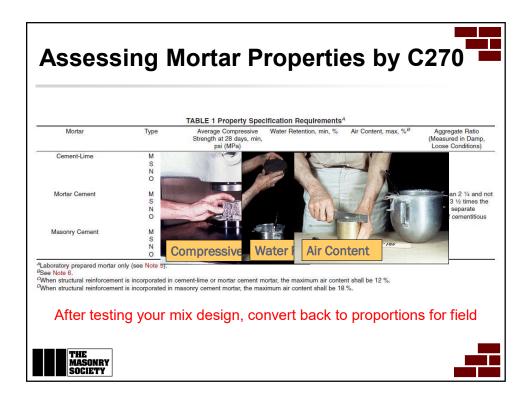
THE MASONRY SOCIETY

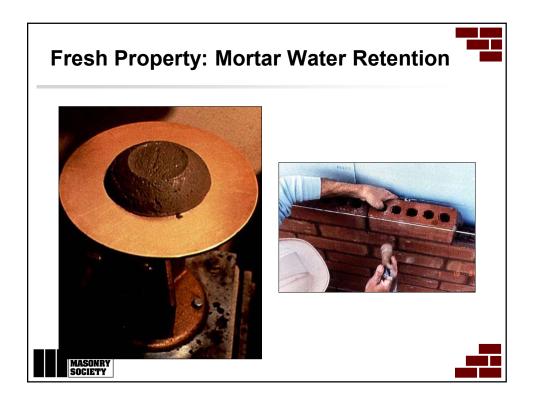


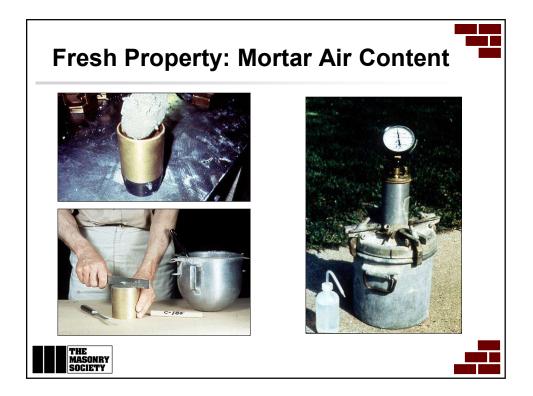
Retempering, or adding water to restore workability, is good practice

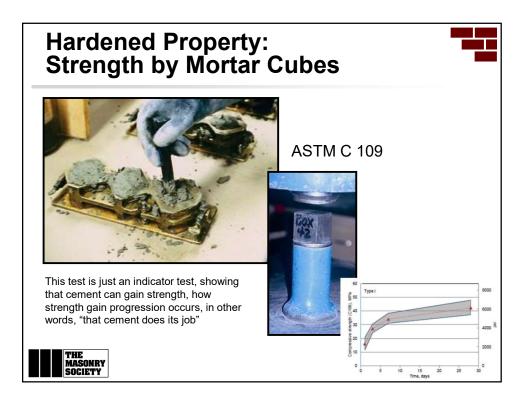


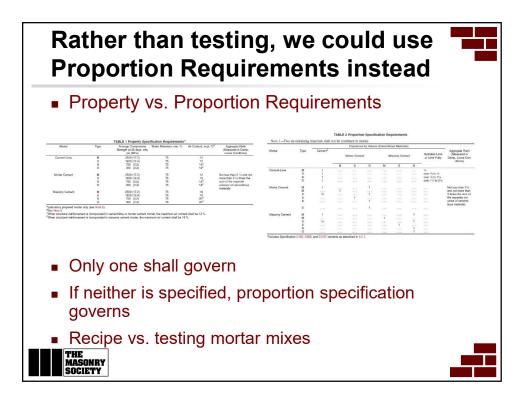


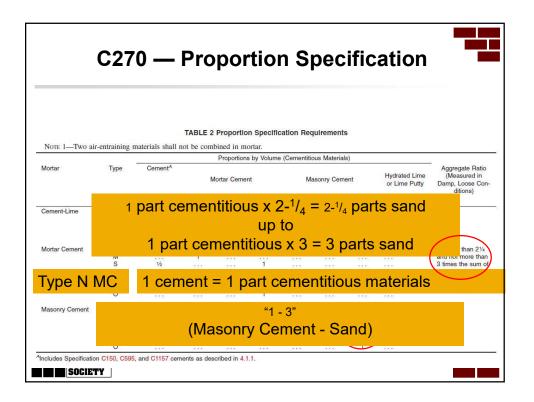


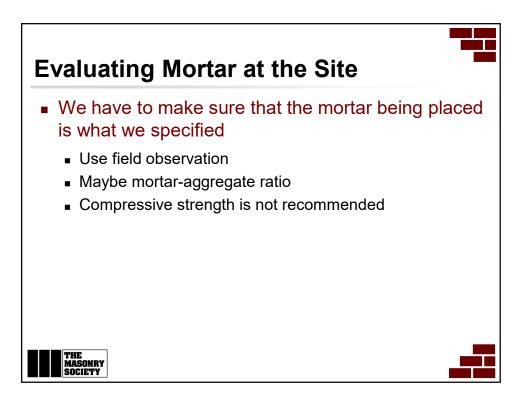






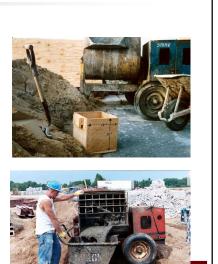






QA: Proper Proportions – Field Observation

- Inspect batching and mixing
- A 1 cu ft box is a simple way to check sand additions
- Observe mixing (3 to 5 minutes per C270)
- These are "periodic" observation activities
 THE MASONRY SOCIETY



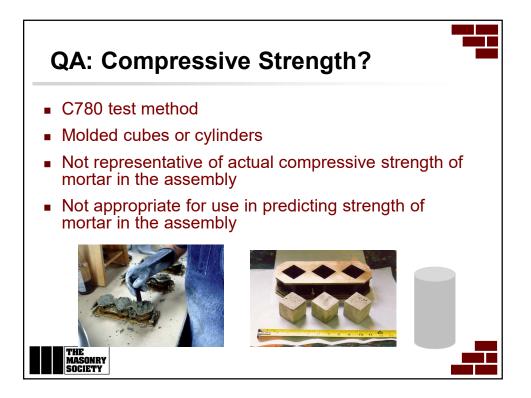
QA: Proper Proportions – Mortar-Aggregate Ratio

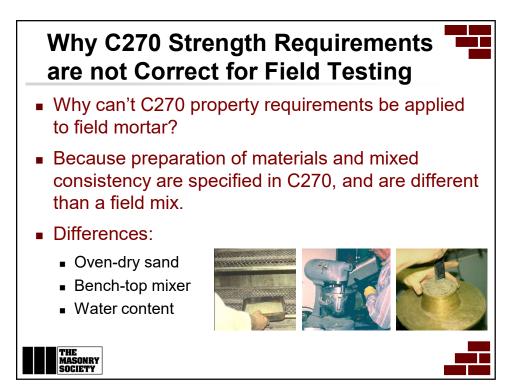
- A C780 test method for evaluating the proportions of fresh mortar mix
- Amount of sand relative to cementitious materials
- Best method to determine if the proper proportions were used in the field mix

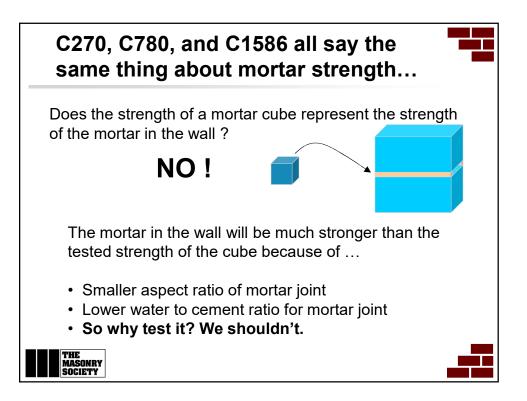
THE MASONRY SOCIETY





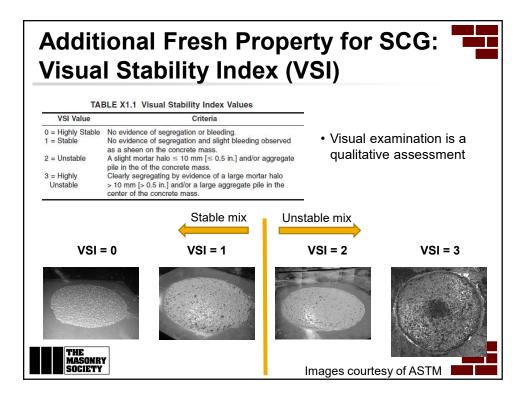


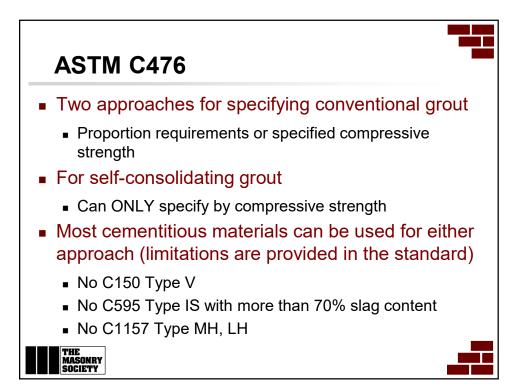


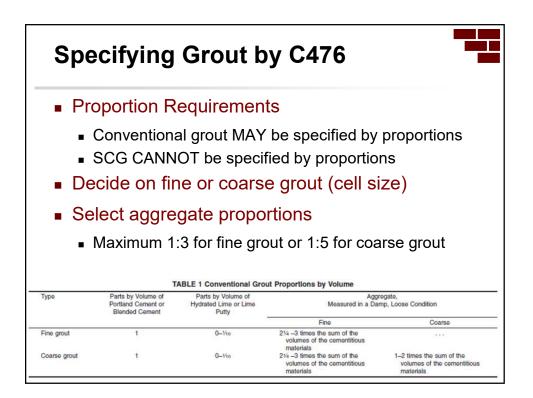


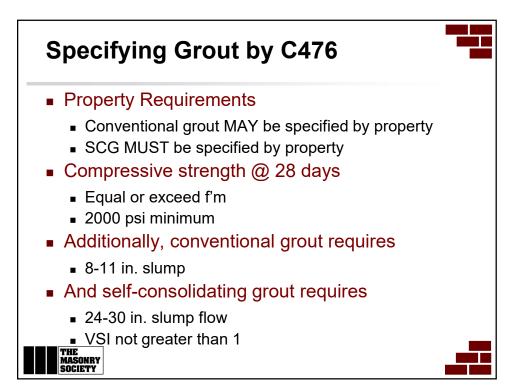


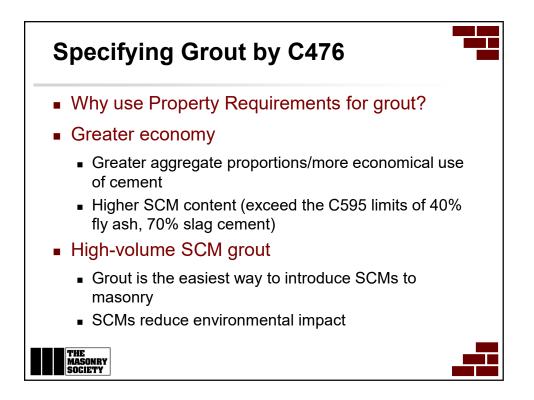


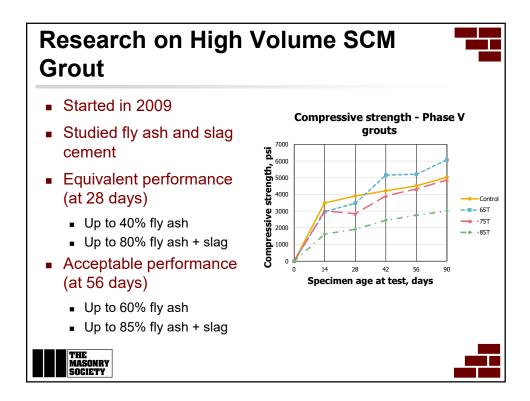




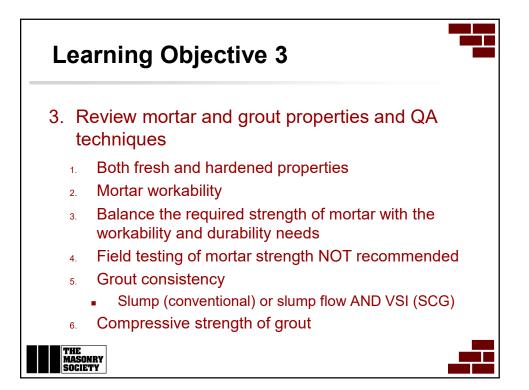


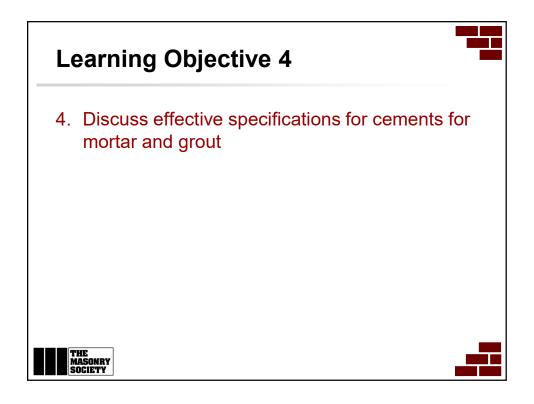


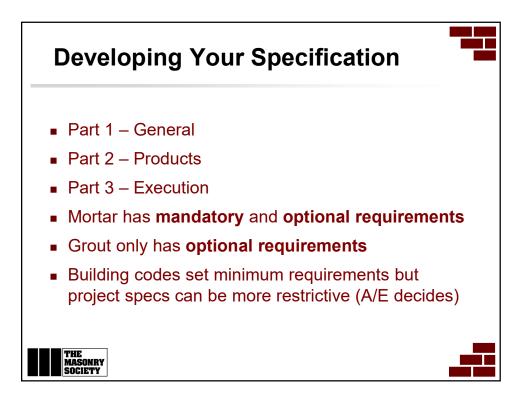


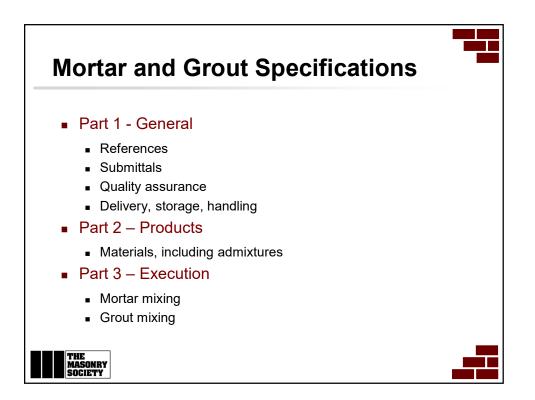


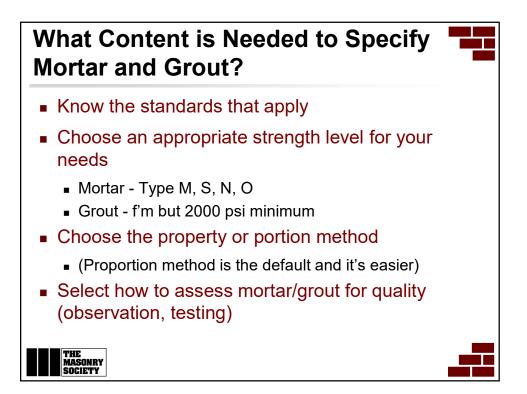




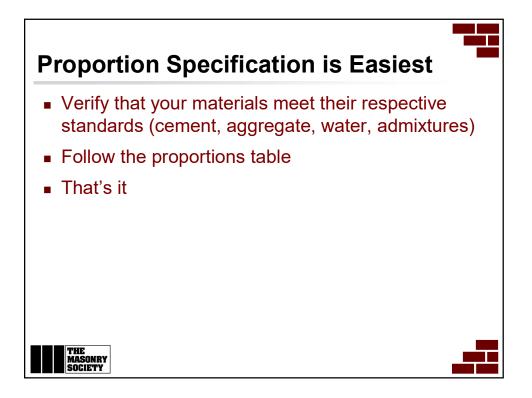




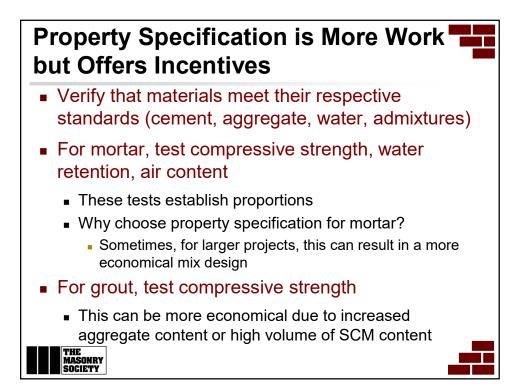


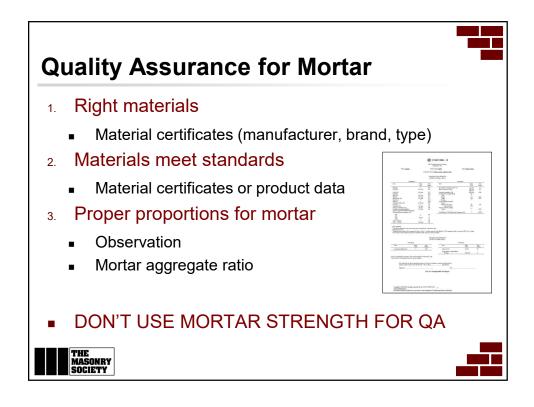


 Specifying Mortar Location + segment = mortage 		(Nonmandatory Information) XI. SELECTION AND USE OF MORTAR FOR UNIT MASONRY				
	TABLE X1.1 Guide for the Selection of	51 (.9/			
Location	Building Segment	Mortar Type				
		Recommended		Alternative		
Exterior, above grade	load-bearing wall	N		S or M		
,	non-load bearing wall	O ^B		N or S		
	parapet wall	N		S		
Exterior, at or below grade	foundation wall, retaining wall, manholes, sewers, pavements,	S ^c		M or N ^C		
	walks, and patios	TABLE X3.1 Guide for Selection of Tuck Pointing Mortar ⁴				
	•	Location or Service	Morta Recommended	Mortar Type commended Alternate		
Interior	load-bearing wall	Interior	O	K,N		
Interior or Exterior	non-bearing partitions tuck pointing	exterior, above grade exposed on one side, unlikely to be trozen when saturated, not	0	N.K		
his table does not provide for many specialized mortar uses, such as chimney, reinforc ype O mortar is recommended for use where the masonry is unlikely to be frozen when s . Type N or S mortar should be used in other cases.		subject to high wind or other significant lateral load exterior, other than above	N	o		
	Choose proportion (de • No need to limit ce	, , ,	not applicable to pay			

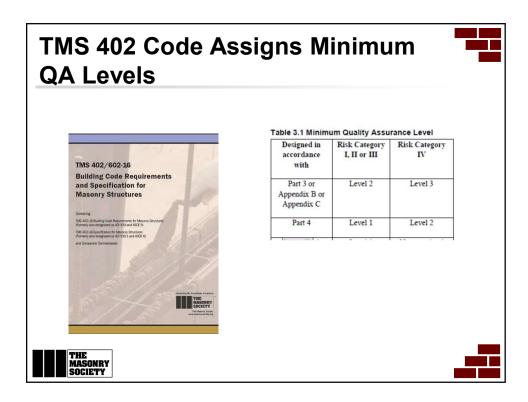












IS 602 Provides QA nimum Verification R	equi	rer	ner	nts	
т	able 3.1 Minimum Quality Assurance Level				
	Designed in accordance with	Risk	Category I or III	Risk Category IV	
Engineered, infill, limit design	Part 3 or Appendix B o Appendix C	endix B or		Level 3	
Prescriptive	Part 4		evel 1	Level 2	
Table 3 — Minimum Verification Requirements	Required for Quality Assurance ^(a)		Reference for Criteria		
	Level 1	Level 2	Level 3	TMS 602	
Prior to construction, verification of compliance of submittals.		R	R	Art. 1.5	
Prior to construction, verification of f'_m and f'_{AAC} , except where specifically exempted by the Code.		R	R	Art. 1.4 B	
During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.		R	R	Art. 1.5 & 1.6.	
During construction, verification of f'_m and f'_{AAC} for every 5,000 sq. ft. (465 sq. m).		NR	R	Art. 1.4 B	
During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.		NR	R	Art. 1.4 B	

