

# DIN EN 15435:2008-10 (E)

## Precast concrete products - Normal weight and lightweight concrete shuttering blocks - Product properties and performance

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms, definitions and symbols .....</b>	<b>6</b>
3.1	Terms and definitions .....	6
3.2	Symbols .....	7
<b>4</b>	<b>Requirements .....</b>	<b>8</b>
4.1	General .....	8
4.2	Raw materials and concrete .....	9
4.3	Dangerous substances .....	9
4.4	Geometric properties .....	9
4.5	Density .....	10
4.6	Moisture movement .....	10
4.7	Reaction to fire .....	10
4.8	Water vapour permeability .....	10
4.9	Mechanical strength .....	10
4.10	Acoustic properties .....	11
4.11	Thermal properties .....	11
4.12	Water absorption by capillarity .....	11
4.13	Durability .....	11
<b>5</b>	<b>Test methods .....</b>	<b>12</b>
5.1	Geometric properties .....	12
5.2	Density .....	14
5.3	Mechanical strength .....	15
<b>6</b>	<b>Classification .....</b>	<b>15</b>
<b>7</b>	<b>Marking .....</b>	<b>16</b>
<b>8</b>	<b>Evaluation of conformity .....</b>	<b>16</b>
8.1	General .....	16
8.2	Initial type testing .....	16
8.3	Factory production control .....	17
<b>Annex A (normative) Determination of web tensile strength .....</b>		<b>18</b>
A.1	Principle .....	18
A.2	Apparatus .....	18
A.3	Procedure .....	19
A.4	Determining the tensile strength of webs .....	21
A.5	Test report .....	23
<b>Annex B (normative) Determination of shell flexural strength .....</b>		<b>24</b>
B.1	Principle .....	24
B.2	Apparatus .....	24

<b>B.3</b>	<b>Procedure .....</b>	<b>24</b>
<b>B.4</b>	<b>Determining the flexural strength of the shells .....</b>	<b>24</b>
<b>B.5</b>	<b>Test report .....</b>	<b>28</b>
<b>Annex C (normative) Sampling for initial type testing .....</b>		<b>29</b>
<b>C.1</b>	<b>General .....</b>	<b>29</b>
<b>C.2</b>	<b>Sampling procedure .....</b>	<b>29</b>
<b>C.3</b>	<b>Place and dates of inspection and acceptance testing .....</b>	<b>31</b>
<b>Annex D (normative) Compliance criteria for initial type testing and for independent batch acceptance testing .....</b>		<b>32</b>
<b>Annex E (informative) Example of inspection schemes .....</b>		<b>33</b>
<b>E.1</b>	<b>Equipment inspection .....</b>	<b>33</b>
<b>E.2</b>	<b>Materials inspection .....</b>	<b>34</b>
<b>E.3</b>	<b>Production process inspection .....</b>	<b>35</b>
<b>E.4</b>	<b>Product inspection .....</b>	<b>36</b>
<b>E.5</b>	<b>Switching rules .....</b>	<b>37</b>
<b>Annex F (informative) Filling pressure of concrete infill .....</b>		<b>38</b>
<b>Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive .....</b>		<b>39</b>
<b>ZA.1 Scope and relevant characteristics .....</b>		<b>39</b>
<b>ZA.2 Procedure for attestation of conformity of concrete shuttering blocks .....</b>		<b>40</b>
<b>ZA.3 CE marking and labelling .....</b>		<b>42</b>
<b>Bibliography .....</b>		<b>44</b>