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An ISO 9001:2015 Certified Company

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BAR BENDING SCHEDULE

WHAT IS BAR BENDING SCHEDULE (BBS)?

BBS is a comprehensive list that describes the type, size, length, number of bar, number of bending details of each bar in a structural drawing of structure.

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ADVANTAGES OF BBS

- BBS Reduces wastages of steel.
- BBS helps in improving quality control at the site.
- It helps in stock management at the site.
- It helps auditing of reinforcement & reconciliation of steel.
- It helps in the preparation of bills of steel construction work.
- It helps in the estimation of steel quantity.

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POINTS TO BE
REMEMBER
ABOUT BBS

- Diameter of bar available in market – 8mm, 10mm, 12mm, 16mm, 20mm, 25mm, 32mm, 36mm, 40mm.
- Standard length of bar = 12 meter

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POINTS TO BE
REMEMBER
ABOUT BBS

- Weight of bar per meter (kg/m) = $(D^2/162)$ D= dia. of bar.

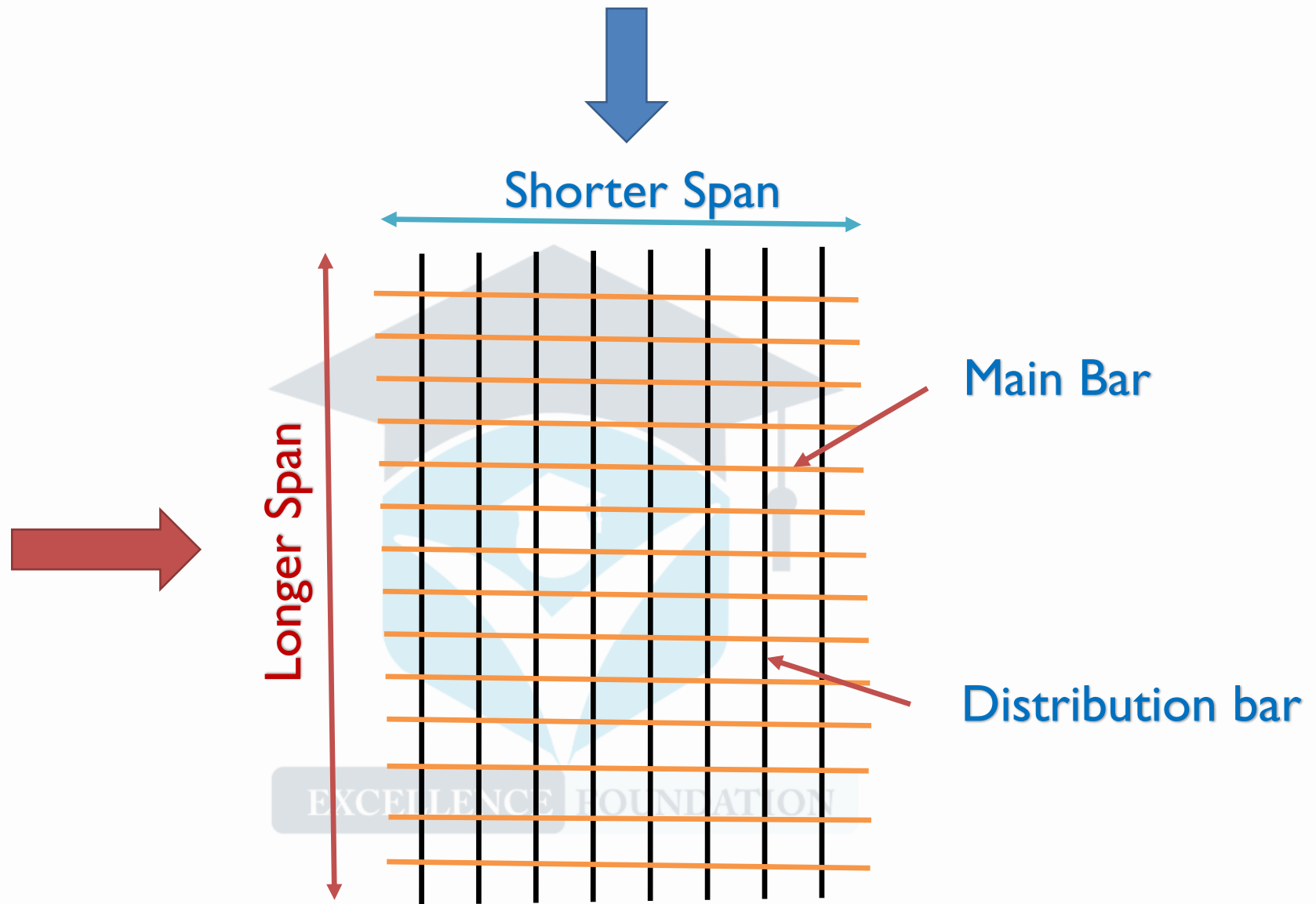
For Example, Let Assume L = 1 m and Dia of bar = 10 mm

Then, Wt. of bar = $(10^2/162) \times 1 \text{ m} = 0.618 \text{ kg}$

- Weight of bar per bar (kg/bar) = $(D^2/162) \times \text{length of bar}$.

For Example, Let Assume L = 10 m and Dia of bar = 10 mm

Then, Wt. of bar = $(10^2/162) \times 10 \text{ m} = 6.18 \text{ kg}$





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- Shorter Bar (Main Bar) –

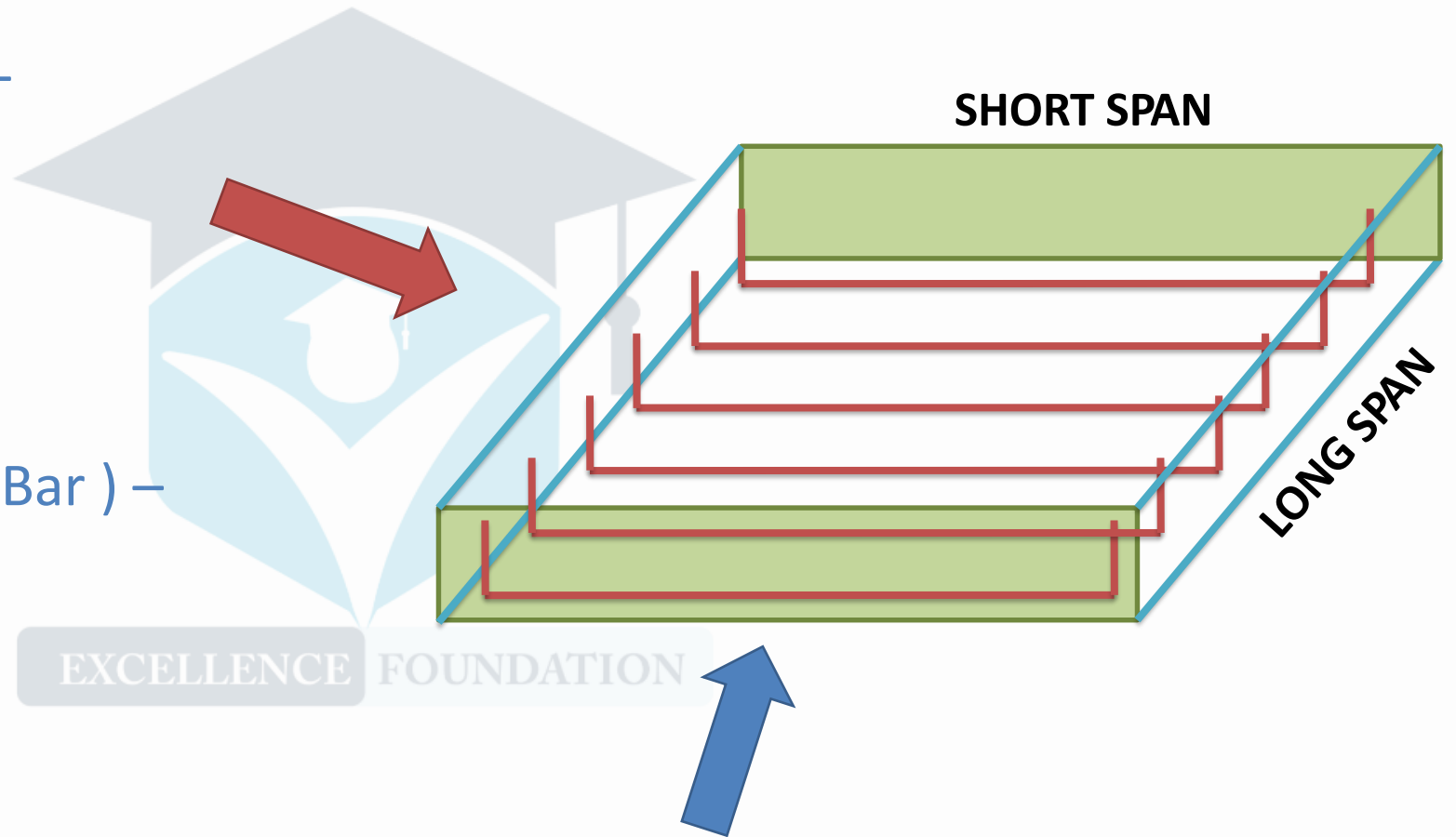
- 1) Length of bar

- 2) No. of bars

- Longer Bar (Distribution Bar) –

- 1) Length of bar

- 2) No. of bars



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- Shorter Bar (Main Bar) –

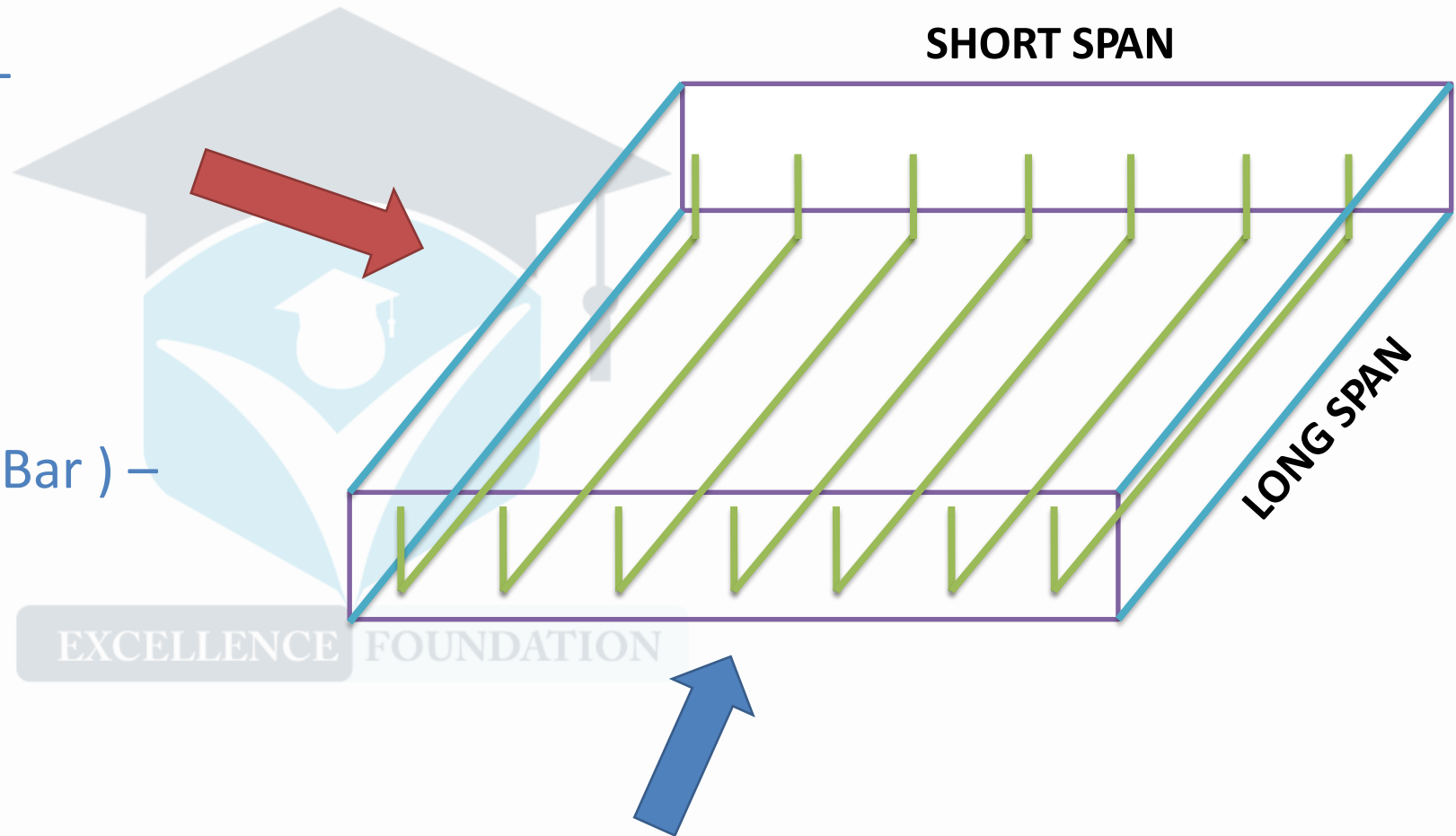
- 1) Length of bar

- 2) No. of bars

- Longer Bar (Distribution Bar) –

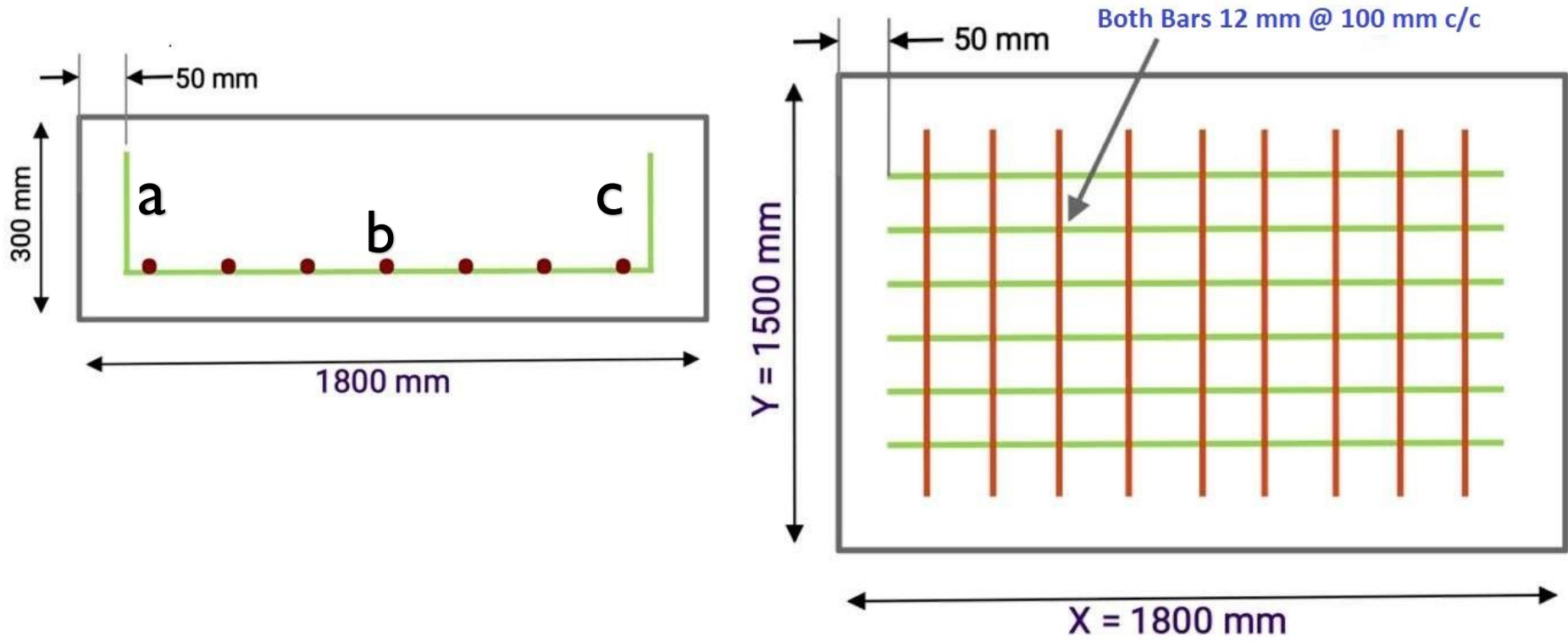
- 1) Length of bar

- 2) No. of bars



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- Length of bar = $a+b+c$
- Number of bars –

$$\text{No. of bars} = (\text{Opposite length/spacing}) + 1$$

- Number of Link in Column –
No. of Links = (Height of column/spacing) +1



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- Number of Stirrups in Beam –
$$\text{No. of Stirrups} = (\text{Clear Span of Beam} / \text{Spacing}) + 1$$



BEND DEDUCTION



- Bend deduction - $45^{\circ} = 1d$
 $90^{\circ} = 2d$
 $135^{\circ} = 3d$

