

# Double IPA

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- Gravity **19.3 BLG**
- ABV **8.4 %**
- IBU **105**
- SRM **7.5**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **17 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **26.3 liter(s)**

## Mash information

- Mash efficiency **73 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **24.6 liter(s)**
- Total mash volume **32.8 liter(s)**

## Steps

- Temp **66 C**, Time **75 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **24.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **75 min** at **66C**
- Keep mash **10 min** at **76C**
- Sparge using **9.9 liter(s)** of **76C** water or to achieve **26.3 liter(s)** of wort

## Fermentables

| Type  | Name                       | Amount        | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Strzegom Pale Ale          | 7 kg (85.4%)  | 79 %  | 6   |
| Grain | Strzegom Pszeniczny        | 0.3 kg (3.7%) | 81 %  | 6   |
| Grain | Caramel/Crystal Malt - 10L | 0.3 kg (3.7%) | 75 %  | 20  |
| Grain | Weyermann - Carapils       | 0.3 kg (3.7%) | 78 %  | 4   |
| Grain | Weyermann - Carared        | 0.3 kg (3.7%) | 75 %  | 45  |

## Hops

| Use for             | Name    | Amount | Time   | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil                | Warrior | 45 g   | 50 min | 15.1 %     |
| Boil                | Warrior | 30 g   | 40 min | 15.1 %     |
| Boil                | Mosaic  | 15 g   | 10 min | 10.4 %     |
| Boil                | Citra   | 15 g   | 10 min | 12 %       |
| Boil                | Mosaic  | 15 g   | 5 min  | 10.4 %     |
| Boil                | Citra   | 15 g   | 5 min  | 13.8 %     |
| Aroma (end of boil) | Mosaic  | 15 g   | 0 min  | 10.4 %     |
| Aroma (end of boil) | Citra   | 15 g   | 0 min  | 13.8 %     |

|           |                   |      |       |        |
|-----------|-------------------|------|-------|--------|
| Whirlpool | Mosaic            | 15 g | 0 min | 10.4 % |
| Whirlpool | Citra             | 15 g | 0 min | 13.8 % |
| Whirlpool | Falconer's Flight | 30 g | 0 min | 10.7 % |