

# dzień kobiet

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- Gravity **16.6 BLG**
- ABV ---
- IBU **49**
- SRM **40**
- Style **Oatmeal Stout**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss --- %
- Size with trub loss --- **liter(s)**
- Boil time **70 min**
- Evaporation rate --- %/h
- Boil size --- **liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio --- **liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24.4 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **18 liter(s)** of strike water to **76.5C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **-11.6 liter(s)** of **76C** water

## Fermentables

| Type    | Name                        | Amount | Yield | EBC  |
|---------|-----------------------------|--------|-------|------|
| Grain   | Pale Ale                    | 3.4 kg | 80 %  | 6    |
| Grain   | Żytni                       | 1 kg   | 85 %  | 8    |
| Grain   | Pszeniczny                  | 1 kg   | 85 %  | 4    |
| Adjunct | Oats, Flaked                | 0.4 kg | 80 %  | 1    |
| Grain   | pale chocolate              | 0.4 kg | 73 %  | 550  |
| Grain   | Weyermann - Chocolate Wheat | 0.3 kg | 74 %  | 1066 |
| Grain   | Weyermann - Carafa II       | 0.3 kg | 70 %  | 1133 |

## Hops

| Use for             | Name     | Amount | Time     | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil                | Zythos   | 50 g   | 60 min   | 10 %       |
| Boil                | Zythos   | 20 g   | 20 min   | 10 %       |
| Aroma (end of boil) | Amarillo | 20 g   | 0 min    | 9.5 %      |
| Dry Hop             | Citra    | 30 g   | 2 day(s) | 12 %       |

## Yeasts

| <b>Name</b> | <b>Type</b> | <b>Form</b> | <b>Amount</b> | <b>Laboratory</b> |
|-------------|-------------|-------------|---------------|-------------------|
| M44         | Ale         | Dry         | 11.5 g        | mangrove jack     |