

# Wielka Mieszanka

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- Gravity **14.3 BLG**
- ABV ---
- IBU ---
- SRM **14.3**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.3 liter(s)**
- Total mash volume **23 liter(s)**

## Steps

- Temp **62 C**, Time **20 min**
- Temp **70 C**, Time **45 min**

## Mash step by step

- Heat up **17.3 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **20 min** at **62C**
- Keep mash **45 min** at **70C**
- Sparge using **13.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                              | Amount         | Yield | EBC |
|-------|-----------------------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale                 | 2.8 kg (48.7%) | 79 %  | 6   |
| Grain | Cara Blonde - Castle Malting      | 0.05 kg (0.9%) | 78 %  | 20  |
| Grain | Weyermann - Carabelge             | 0.75 kg (13%)  | 30 %  | 35  |
| Grain | Strzegom Czekoladowy 400          | 0.15 kg (2.6%) | 68 %  | 400 |
| Grain | Weyermann - Bohemian Pilsner Malt | 0.5 kg (8.7%)  | 81 %  | 4   |
| Grain | Strzegom Pilzneński               | 1.5 kg (26.1%) | 80 %  | 4   |

## Hops

| Use for | Name                   | Amount | Time      | Alpha acid |
|---------|------------------------|--------|-----------|------------|
| Dry Hop | Saaz (Czech Republic)  | 25 g   | 14 day(s) | 4.5 %      |
| Dry Hop | Columbus/Tomahawk/Zeus | 5 g    | 14 day(s) | 15.5 %     |
| Dry Hop | Willamette             | 23 g   | 14 day(s) | 5 %        |
| Dry Hop | Cascade                | 20 g   | 14 day(s) | 6 %        |

## Extras

| Type   | Name   | Amount | Use for | Time   |
|--------|--------|--------|---------|--------|
| Fining | mech   | 8 g    | Boil    | 15 min |
| Flavor | cukier | 250 g  | Boil    | 60 min |