

Polotmave pólciemne

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **32**
- SRM **12.6**
- Style **Bohemian Pilsener**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **28.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **17.9 liter(s)**
- Total mash volume **23.5 liter(s)**

Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **17.9 liter(s)** of strike water to **70.9C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **40 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **16.4 liter(s)** of **76C** water or to achieve **28.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--|----------------|-------|------|
| Grain | Strzegom Pilzneński | 4.5 kg (80.4%) | 80 % | 4 |
| Grain | Monachijski typ II 20-25 EBC Weyermann | 0.7 kg (12.5%) | 80 % | 20 |
| Grain | Słód Caramunich Typ II Weyermann | 0.2 kg (3.6%) | 73 % | 120 |
| Grain | Strzegom Karmel 300 | 0.12 kg (2.1%) | 70 % | 299 |
| Grain | Weyermann - Carafa III | 0.08 kg (1.4%) | 70 % | 1024 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------------|--------|--------|------------|
| Boil | Saaz (Czech Republic) | 40 g | 20 min | 4.5 % |
| Boil | Saaz (Czech Republic) | 50 g | 50 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|-------------|-------|--------|--------|-------------|
| wyeast 2278 | Lager | Liquid | 500 ml | Wyeast Labs |
|-------------|-------|--------|--------|-------------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 5 g | Boil | 10 min |