

Czekoladowy

- Gravity **14 BLG**
- ABV ---
- IBU **22**
- SRM **42.4**
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **120 min**
- Evaporation rate **10 %/h**
- Boil size **34.6 liter(s)**

Mash information

- Mash efficiency **55 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **28 liter(s)**
- Total mash volume **36 liter(s)**

Steps

- Temp **67 C**, Time **120 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **28 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **120 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **14.6 liter(s)** of **76C** water or to achieve **34.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------------|---------------|--------|-----|
| Grain | Pale Ale | 1 kg (11.8%) | 79 % | 6 |
| Grain | Monachijski Castle | 2 kg (23.5%) | 80 % | 16 |
| Grain | Pilzneński | 2 kg (23.5%) | 81 % | 4 |
| Grain | Pszeniczny | 0.5 kg (5.9%) | 85 % | 4 |
| Grain | Special B Castle | 0.3 kg (3.5%) | 75 % | 350 |
| Grain | Fawcett - Pale Chocolate | 0.7 kg (8.2%) | 71 % | 620 |
| Grain | Czekoladowy Castle | 0.1 kg (1.2%) | 75 % | 900 |
| Grain | Wheat, Flaked podpiekane 150C 60' | 1 kg (11.8%) | 77 % | 4 |
| Grain | Rye, Flaked podpiekane 150C 60' | 0.4 kg (4.7%) | 78.3 % | 4 |
| Sugar | Milk Sugar (Lactose) | 0.5 kg (5.9%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------|--------|--------|------------|
| Boil | Sovereign | 40 g | 60 min | 6.1 % |

Yeasts

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

| | | | | |
|-------------|-----|-----|--------|--------|
| Safale S-04 | Ale | Dry | 1000 g | Safale |
|-------------|-----|-----|--------|--------|

Extras

| Type | Name | Amount | Use for | Time |
|-------|---------|--------|---------|--------|
| Other | Laktoza | 1000 g | Boil | 15 min |