

Zła IPA Cascade

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **28**
- SRM **5.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **21 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pilsner malt | 2.5 kg (47.6%) | 82 % | 4 |
| Grain | Viking Pale Ale malt | 2.5 kg (47.6%) | 80 % | 5 |
| Grain | Strzegom Karmel 150 | 0.25 kg (4.8%) | 75 % | 150 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|----------|------------|
| Boil | Sybilla | 30 g | 50 min | 5.8 % |
| Aroma (end of boil) | Sybilla | 20 g | 10 min | 5.8 % |
| Whirlpool | Cascade PL | 40 g | 30 min | 5.8 % |
| Dry Hop | Cascade PL | 60 g | 4 day(s) | 6.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |